Welcome to Cal State San Bernardino.

It’s a pleasure to serve as president of CSUSB, one of the most diverse and dynamic campuses in California.

When I joined Cal State San Bernardino in August 2012, I was immediately drawn to the beauty of the campus. With attractive buildings, park-like grounds, and expansive views of the foothills and San Bernardino Mountains, often snow-capped in the winter, CSUSB has a stunning aesthetic appeal that enriches the learning environment, inspiring all who visit our campus.

In addition to the beautiful setting, I am also profoundly impressed with the dedication of the university’s faculty and staff, who go above and beyond to ensure that students succeed. Our faculty are well-respected scholars, recognized both nationally and internationally for their academic contributions and teaching service. And our highly trained staff, who rate among the very best in customer service surveys, share the same commitment to student success. Working together, faculty and staff foster a culture of excellence that embraces and empowers students, which is our overarching priority.

CSUSB consistently earns recognition from both the Princeton Review and US News & World Report, the nation’s top college-rating entities, as one of the best universities in the West. Our College of Business and Public Administration garnered one of the Most Innovative Business School designations from European CEO Magazine, placing our university among only four institutions in the U.S. to earn the honor. In addition, for the sixth straight year, CSUSB was named to the President’s Community Service Honor Roll—a testimony to the campus’s commitment to giving back. In fact, CSUSB’s meaningful involvement in the community is a core aspect of our mission and is something demonstrated daily, from students who volunteer to serve as mentors, to large-scale service learning projects that benefit hundreds of citizens in the communities we serve.

We recently implemented a new Student Success Initiative, with a special focus on student advising and many other support services to help students gain success in and out of the classroom, all the way through to graduation and beyond.

With nearly 50 undergraduate majors and more than 25 graduate programs, coupled with small classes offered at convenient times – all to meet the diverse needs of our student body – I’m certain CSUSB has a degree program that is right for you.

This is an exciting time for Cal State San Bernardino. I invite you to take a tour of our beautiful campus and to meet with our outstanding faculty, staff, and students, who can answer questions, offer advice, and provide you with one-on-one support.

We hope you’ll consider Cal State San Bernardino, where you’ll find excellent opportunities to grow intellectually, meet engaging people, participate in student organizations, and achieve your highest academic aspirations—all in a setting that welcomes, nurtures, inspires, and challenges. If so, please be certain to apply by November 30.

Please visit www.csusb.edu or news.csusb.csusb.edu, our university news site, for more information.

And if you choose to attend CSUSB, I look forward to greeting you on campus.

Sincerely,

Tomás D. Morales, Ph.D.
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-of-class 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 Associate Vice President 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 registration time. 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.
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 579.) 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 2012-14 Bulletin, Catalog of Programs, may be purchased at the Coyote Bookstore, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407-2397.

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

www.csusb.edu

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(510) 748-9001
### CALENDAR
#### 2012-2014

#### FALL TERM 2012
- **May 1**: Last day to file or refile graduation check for Winter 2013 graduation without payment of late fee
- **May 24- June 15**: Fall Quarter 2012 Priority Registration
- **Sept. 3**: Labor Day, university and library closed
- **Sept. 10**: Admission Day, university open (observed Dec. 28)
- **Sept. 12**: Beginning of academic year
- **Sept. 19**: Last day to withdraw from all classes and receive 100% refund
- **Sept. 20**: Classes begin (Saturday classes begin Sept. 22)
- **Sept. 26**: Last day to add classes via My Coyote Self-Service
- **Oct. 8**: Columbus Day, university open (observed Dec. 31)
- **Oct. 10**: CENSUS: Last day to drop classes without record
- **Oct. 22-25**: Thanksgiving recess, university and library closed
- **Oct. 20**: Classes begin (Saturday classes begin Sept. 22)
- **Oct. 26**: Last day to add classes via My Coyote Self-Service
- **Oct. 29-31**: Winter Quarter 2013 Priority Registration
- **Nov. 1**: Last day to file or refile graduation check for June 2013 graduation without payment of late fee
- **Nov. 12**: Veteran's Day, university and library closed
- **Nov. 22-25**: Thanksgiving recess, university and library closed
- **Dec. 3**: Last day of classes (Saturday classes end Dec. 1)
- **Dec. 4-8**: Final examinations
- **Dec. 8**: Fall Commencement
- **Dec. 11**: Grades due; end of term
- **Dec. 21-24**: Academic recess, campus closed
- **Jan. 1**: University and library close at noon on Dec. 21

#### WINTER TERM 2013
- **Jan. 2**: Last day to file or refile graduation check for Fall 2013 graduation without payment of late fee
- **Jan. 4**: Last day to withdraw from all classes and receive 100% refund
- **Jan. 7**: Classes begin (Saturday classes begin Jan. 5)
- **Jan. 11**: Last day to add classes via My Coyote Self-Service
- **Jan. 19-21**: Martin Luther King, Jr. birthday, university and library closed
- **Jan. 28**: CENSUS: Last day to drop classes without record
- **Feb. 1**: Last day to file or refile graduation check for Fall 2013 graduation without payment of late fee
- **Feb. 11- Mar. 4**: Spring Quarter 2013 Priority Registration
- **Feb. 12**: Lincoln's Birthday, university open (observed Dec. 26)
- **Feb. 22**: Washington's Birthday, university open (observed Dec. 27)
- **March 18**: Last day of classes (Saturday classes end March 16)
- **March 19-23**: Final examinations
- **March 26**: Grades due; end of term
- **March 25-29**: Academic recess

### SPRING TERM 2013
- **March 29**: Last day to withdraw from all classes and receive 100% refund
- **April 1**: Cesar Chavez Holiday, university and library closed
- **April 2**: Classes begin, Sessions Regular and 6W1
- **April 17**: Campus closed each Friday, Saturday, and Sunday
- **April 21**: Last day to add via My Coyote, 6W1
- **April 22**: Last day to add via My Coyote, Session Regular
- **April 27**: CENSUS: Last day to drop classes without record, Session 6W1
- **July 4**: Independence Day Holiday, university and library closed
- **July 10**: CENSUS: Last day to drop classes without record, Session Regular
- **July 24**: Last day of classes, Session 6W1
- **July 25, 29**: Final examinations, Session 6W1
- **July 29**: Last day for full refund, Session 6W1
- **July 30**: Classes begin, Session 6W2
- **July 31**: Grades due, Session 6W1
- **July 31**: Last day to add via MyCoyote, Session 6W2
- **Aug. 7**: CENSUS: Last to drop classes without record, Session 6W2
- **Aug. 8**: Last day of classes, Session 6W1
- **Aug. 28**: Last day of classes, Session Regular
- **Aug. 29, 30**: Final examinations, Session Regular
- **Sept. 2**: Labor Day, university and library closed
- **Sept. 3**: Last day of classes, Session 6W2
- **Sept. 4-5**: Final examinations, Session 6W2
- **Sept. 9**: Admission Day, university open (observed Dec. 30)
- **Sept. 10**: Grades due, Sessions Regular and 6W2; end of term

#### FALL TERM 2013
- **May 1**: Last day to file or refile graduation check for Winter 2014 graduation without payment of late fee
- **May 23- June 14**: Fall Quarter 2013 Priority Registration
- **Sept. 2**: Labor Day, university and library closed
- **Sept. 9**: Admission Day, university open (observed Dec. 30)
- **Sept. 11**: Beginning of academic year
- **Sept. 18**: Last day to withdraw from all classes and receive 100% refund
- **Sept. 19**: Classes begin (Saturday classes begin Sept. 21)
- **Sept. 25**: Last day to add classes via My Coyote Self-Service
- **Oct. 9**: CENSUS: Last day to drop classes without record
- **Oct. 14**: Columbus Day, university open (observed Dec. 31)
- **Nov. 1**: Last day to file or refile graduation check for Spring 2014 graduation without payment of late fee

### SUMMER TERM 2013
- **June 18**: Last day for full refund, Sessions Regular and 6W1
- **June 19**: Classes begin, Sessions Regular and 6W1
- **June 17-21**: Final examinations, Session 6W1
- **June 20**: Last day to add via MyCoyote, 6W1
- **June 25**: Last day to add via MyCoyote, Session Regular
- **June 27**: CENSUS: Last day to drop classes without record, Session 6W1
- **July 4**: Independence Day Holiday, university and library closed
- **July 10**: CENSUS: Last day to drop classes without record, Session Regular
- **July 24**: Last day of classes, Session 6W1
- **July 25, 29**: Final examinations, Session 6W1
- **July 29**: Last day for full refund, Session 6W2
- **July 30**: Classes begin, Session 6W2
- **July 31**: Grades due, Session 6W1
- **July 31**: Last day to add via MyCoyote, Session 6W2
- **Aug. 7**: CENSUS: Last to drop classes without record, Session 6W2
- **Aug. 8**: Last day of classes, Session 6W1
- **Aug. 28**: Last day of classes, Session Regular
- **Aug. 29, 30**: Final examinations, Session Regular
- **Sept. 2**: Labor Day, university and library closed
- **Sept. 3**: Last day of classes, Session 6W2
- **Sept. 4-5**: Final examinations, Session 6W2
- **Sept. 9**: Admission Day, university open (observed Dec. 30)
- **Sept. 10**: Grades due, Sessions Regular and 6W2; end of term
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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.

For further information and any calendar updates refer to: academicscheduling.csusb.edu
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 (CSU). 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 newest—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 CSU, 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 CSU 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 campuses require a basic program of "general education requirements" for graduation regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers high-quality, affordable bachelor's and master's level degree programs. Many of these programs are offered so that students can complete all upper-division and graduate requirements by part-time, late afternoon, and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California. In 2005, the CSU was authorized to independently offer educational doctorate (Ed.D.) programs.

Enrollment in fall 2011 totaled 427,000 students, who were taught by more than 21,000 faculty. The system awards about half of the bachelor's degrees and a third of the master's degrees granted in California. More than 2.7 million students have graduated from CSU campuses since 1961.

A recent economic report found that the CSU supports more than 150,000 jobs statewide, annually. The engine driving job creation is more than $17 billion in economic activity that directly results from CSU-related spending that generates $5.43 for every dollar the state invests. For more information, please see www.calstate.eduimpact.

TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY

EX OFFICIO TRUSTEES
The Honorable Edmund G. Brown, Jr. Governor of California
The Honorable Gavin Newsom Lieutenant Governor of California
The Honorable John Pérez Speaker of the Assembly
The Honorable Tom Torlakson State Superintendent of Public Instruction
Dr. Timothy P. White Chancellor of the California State University

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Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses.
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Herbert L. Carter (2019)
Bernadette Cheyne (2013)
Rebecca Eisen (2020)
Debra S. Farar (2014)
Kenneth Fong (2013)
Margaret Fortune (2016)
Lupe Garcia (2020)
Steven M. Glazer (2019)
William Hauck (2017)
Hsing Kung (2018)
Bob Linscheid (2012)
Peter G. Mehas (2015)
Henry Mendoza (2016)
Lou Monville (2014)
Hugo Morales (2020)
Larry Norton (2020)
Jillian L. Ruddell (2013)
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Cipriano Vargas (2014)

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Chair: Bob Linscheid
Secretary: Christine Helwick
Treasurer: Dr. Benjamin F. Quillian

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

OFFICE OF THE CHANCELLOR
The California State University
401 Golden Shore, Suite 620
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(562) 951-4000
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# Campuses of the California State University

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<thead>
<tr>
<th>Campus Name</th>
<th>Address</th>
<th>City, State Zip</th>
<th>President Name</th>
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<th>Website</th>
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<tr>
<td>California State University, Bakersfield</td>
<td>9001 Stockdale Highway</td>
<td>Bakersfield, CA 93311-1022</td>
<td>Dr. Horace Mitchell, President</td>
<td>(661) 654-2782</td>
<td><a href="http://www.csub.edu">www.csub.edu</a></td>
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<td>One University Drive</td>
<td>Camarillo, CA 93012</td>
<td>Dr. Richard Rush, President</td>
<td>(805) 437-8400</td>
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<td>Chico, CA 95929-0150</td>
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<td>(510) 885-3000</td>
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Vision Statement
California State University, San Bernardino will be a leading contributor to the growth and development of the region, in particular, as well as the state and nation.

The university will serve the region, state, and nation by preparing leaders for the 21st century with a global outlook and the skills needed for educational, social, economic, political, environmental, and cultural advancement.

Mission and Goals
California State University, San Bernardino offers a challenging and innovative academic environment. The university seeks to provide a supportive and welcoming social and physical setting where students, faculty and staff feel they belong and can excel. The university provides students the opportunity to engage in the life of the campus, interact with others of diverse backgrounds and cultures, as well as participate in activities that encourage growth, curiosity and scholarly fulfillment. Through its branch campus in Palm Desert, the university mission extends to the Coachella Valley.

Building on a tradition of close student contact with faculty, staff and administrators, the university is committed to making a positive difference in the lives of its students and the communities it serves by providing learning opportunities driven by teaching and research excellence, intellectual interaction and creativity.

The university is a preeminent center of intellectual and cultural activity in Inland Southern California, improving the region’s quality of life through the skills, knowledge, experience and engagement of its faculty, staff, students and alumni.

Strategic Plan
This document represents the ongoing long-range planning efforts which will define the future goals and direction of the university.

This strategic plan follows the foundation set forth by the previous plan, which was developed in 1998. It extends many of the goals and objectives introduced at that time, accommodating changes in the university’s priorities, opportunities, and mandates.

As with most strategic plans, the goals and objectives identified serve as a road map - a guide to what the university hopes to achieve and become. But with maps come detours and changes of direction. Some potential roadblocks and solutions are also noted in the report.

The most significant factor in the success of this plan is funding. The California State University has experienced staggering budget cuts in recent years, and how the university is funded in the future will help determine the extent and scope of many of our objectives and how they are accomplished.

Other issues will also play key roles. For instance, questions of accessibility, environmental sustainability, and internet security are increasingly important facets of today’s decision-making process. Those issues and others are taken into account in the new strategic plan.

Given circumstances associated with the stability of state budget appropriations, the university will seek to reduce its reliance on state funding by enhancing, as appropriate, entrepreneurial initiatives, private and corporate philanthropy, external grants and contracts, and other innovative activities undertaken by university faculty, staff, and students.

This iteration of our long-range planning process doubles the number of goals that formed the heart of the previous three-point plan. However, the new plan maintains the direct focus that will allow the university to concentrate on the broad areas of teaching and learning excellence; student access, retention, and success; excellence in research and creative activities; campus community development; community engagement; and infrastructural improvement.

Much progress has been made since the previous plan’s adoption. This strategic plan takes the next steps and will serve to help the university navigate its future.

I. Teaching and Learning Excellence
Excel as a teaching and learning institution that offers challenging and innovative educational experiences.

• Continue to provide and expand intellectually rigorous educational programs that respond to the diverse and evolving needs of learners in our highly complex region and global community.
• Promote and sustain a teaching-learning environment that emphasizes the importance of the partnership between faculty and students and cultivates each student’s sense of personal responsibility to undertake the work necessary to take full advantage of educational experiences.
• Promote and support teaching excellence and the scholarship of teaching among faculty.
• Expand information, knowledge, and data resources.

II. Student Access, Retention, and Success
Promote student access and degree attainment.

• Invest in student success and quality.
• Manage enrollments to balance regional needs with available state budgetary support.
• Strengthen existing retention efforts and improve the graduation rate.

III. Excellence in Research and Creative Activities
Promote innovative research, scholarly, and creative activities.

• Foster an intellectual environment that promotes active engagement in research, scholarly, and creative activities.
• Attract and retain superb tenure track faculty who engage in the teacher scholar model.
• Enhance student learning by supporting faculty and student excellence in research, scholarly, and creative activities.

IV. Campus Community
Ensure a welcoming and safe, intellectual, social, cultural, accessible, and diverse environment that engages the campus community in the life of the university.

• Maintain and enhance a campus environment that fosters collegiality, diversity, and the intellectual and overall well-being of the campus community.
• Enhance the use of technologies in teaching, learning, accessibility, communications, and administration.
• Foster the active engagement of students in the life of the university to facilitate the development of a vibrant campus community.
• Provide a safe and secure environment on campus.
• Improve accessibility of campus buildings and grounds for persons with disabilities.

V. Community Engagement
Work as a meaningful partner in engaging the communities that the university serves.

• Expand the university’s role as a leading regional center with a proactive agenda for educational, social, economic, political, environmental, and cultural advancement.
• Engage our communities in the life and mission of the university, as well as engage the university and its students, faculty, and staff in the life of our communities.
• Actively increase private and public sector support of the university’s mission through fundraising.
• Build more bridges between and among our communities to create a culture of engagement, inclusion, and belonging.
• Nurture a positive image for the university by providing focused communications to increase awareness of and interest in the university.

VI. Infrastructure
Develop and maintain an administrative, fiscal, and physical environment that supports the university mission.
• Maintain an environment of continuous performance improvement.
• Ensure sound administrative and fiscal practices and policies responsive to the university’s needs.
• Provide opportunities for professional growth, and plan for staff and administrative retention, development, and succession.
• Demonstrate commitment to environmental sustainability.
• Provide superior services to maintain and develop the campus facilities and grounds.
• Maximize the use of auxiliary services through superior customer service and strategic innovation to advance the mission of the university.

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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<th>Name</th>
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<td>Tomás D. Morales, Ph.D.</td>
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<td>Pamela Langford, M.B.A.</td>
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<td>Muriel Lopez-Wagner, Ph.D.</td>
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<td>Andrew Bodman, Ph.D.</td>
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<td>Associate Provost, Academic and International Programs</td>
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<td>Dean, Graduate Studies</td>
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<td>Francisca Beer, Ph.D.</td>
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Director, Student Leadership and Development .................................................. Mark Hartley, M.A.
Director, WorkAbility IV ................................................................................. Beth Jaworski, Ph.D.
Director, Recreational Sports .......................................................................... Rick Craig, M.S.
Executive Director, Santos Manuel Student Union ............................................ Mark Day, B.M.
Executive Director, Associated Students, Inc. .................................................... Patrick Areffi, M.S

Vice President for University Advancement ......................................................... Ron Fremont, Ed.D.
Associate Vice President, Public Affairs ............................................................ Sid Robinson, M.A., A.P.R.
Associate Vice President, University Development ..............................................
Senior Director of Development and Director, Development for College of Natural Sciences ................................. Linda Hunt, M.A.
Director, Development for Athletics .................................................................. Carol Dixon, M.B.A.
Director, Development for College of Arts and Letters ........................................ Richard Jarvis, B.A.
Director, Development for College of Business and Public Administration ..................................................
Director, Development for College of Education ................................................... Richonette “Ricki” McManuis, B.S.
Director, Development for College of Social and Behavioral Sciences .................................................. Brent Hunter, M.A.
Director, Development for CPalm Desert Campus ................................................
Director, Foundation Campaigns and Partnerships .................................................. Cecilia “Toni” Callhcot, M.A.
Director, Alumni Affairs ...................................................................................... Vicki Bevard, B.S.
Director, Annual Giving and Constituent Management ........................................ Teri Carlos, B.A.
Director, Prospect Management and Research ....................................................... Norelia Hueerta
The Academic Colleges, Schools and Departments of the University

College of Arts and Letters
Dean ................................................................. Eri Yasuhara
Associate Dean .................................................. Salaam Yousif
Assistant Dean .................................................... Terr D. Smith
Chairs:
Art ................................................................. Margaret Perry
Communication Studies ......................................... Michael Salvador
English ............................................................. Sunny Hyon
Music .............................................................. Todd Johnson
Philosophy ........................................................ Jill Buroker
Theatre Arts ...................................................... Kathryn Ervin
World Languages and Literatures ............................ Rafael Correa

College of Business and Public Administration
Dean ................................................................. Lawrence Rose
Associate Dean, Graduate and International Programs .......................................... Frank Lin
Associate Dean and M.B.A. Director ................................................................. Kristie Ogilvie
Chairs:
Accounting and Finance ........................................ Rong Chen (Acting)
Information and Decision Sciences ................................................................. Jake Zhu
Management ..................................................... Mike Stull
Marketing .......................................................... Victoria Seitz
Public Administration ............................................... Jonathan Anderson

College of Education
Dean ................................................................. Jay Fiene
Associate Dean, Administration ......................................................... John Winslade
Chairs:
Educational Psychology and Counseling .................................................. Ruth Sandlin
Educational Leadership and Curriculum ............................................ Thelma Moore-Steward (Interim)
Language, Literacy and Culture ............................................................... Maria Balderrama (Interim)
Science, Mathematics and Technology Education ..................................... Herbert Brunkhorst

College of Natural Sciences
Dean ................................................................. Kristy Fleming
Associate Dean .................................................. George Georgiou
Assistant Dean ..................................................... Chris Lindfelt
Chairs:
Biology ............................................................... David Polcyn
Chemistry and Biochemistry .................................................. Brett Stanley
Geological Sciences .................................................. Alan Smith
Health Science and Human Ecology .................................................. Marsha Greer
Kinesiology ............................................................ Terry Rizzo
Mathematics .......................................................... Peter Williams
Nursing ............................................................... Dwight Sweeney (Interim)
Physics ............................................................... Paul Dixon
Director:
School of Computer Science and Engineering ........................................... Kerstin Voigt

College of Social and Behavioral Sciences
Dean ................................................................. Jamal Nassir
Associate Dean .................................................... Pam Schram
Assistant Dean ...................................................... Deborah Parsons
Assistant Dean ..................................................... David Riffer
Chairs:
Anthropology ...................................................... Peter Robertshaw
Criminal Justice .................................................. Larry Gaines
Economics .......................................................... Mayo Toruño
Geography and Environmental Studies ............................................... Norman Meek
History ............................................................. Joyce Hanson
Political Science .................................................. Brian Janiskee
Psychology .......................................................... Robert Ricco
Sociology ............................................................. Dale Lund
Director:
School of Social Work .................................................... Laurie Smith
THE UNIVERSITY
ACADEMIC PROGRAM

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

The college opened in 1965, offering six degree programs to approximately 300 students and focusing on the liberal arts. Currently the curriculum has been expanded to 46 baccalaureate degree programs, 15 teaching credential fields and various options within 31 master's degree programs, and one doctoral program. Current enrollment approaches 18,000.

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 summer quarter allowing students to accelerate their progress and take summer courses. 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 activity-based courses, such as studio art, music, physical education, computer science, etc. meet for 2-3 hours of instruction a week for each unit of credit. Students transferring from a semester system campus should note semester courses are five weeks longer (15 weeks versus 10) so that a quarter unit is equal to 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. The Ed.D. in Educational Leadership requires 92 units for completion.

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 and schools.

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

Faculty Office Hours

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

Accreditation

California State University, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs are approved by the California State Board of Education, 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.)-AASCB 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 of 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 (B.A.)-Council on Social Work 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 classes; 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.
Baccalaureate Degree Programs

In the 2012-2014 academic years, the university will offer bachelor's degree programs in the following fields (majors):

College of Arts and Letters

Arabic Language, Literature and Culture* B.A.
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
French and Francophone studies
teacher
Music* B.A.
commercial music
music education
performance/composition
general music studies
music technology
musical theatre
ethnomusicology
music history
Philosophy* B.A.
Spanish* B.A.
business
communication
Hispanic culture studies
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
cyber security
entrepreneurial management*
finance*
financial planning
human resources management*
information systems and technology*
international business*
management*
marketing*
public administration*
real estate*
sports and entertainment marketing*
supply chain and transportation management*

College of Education*

Career and Technical Studies B.A./B.S.

College of Natural Sciences

Bioinformatics B.S.
Biology* B.A./B.S.
pre-med
ecology and evolution
Chemistry* B.A./B.S.
biochemistry
ACS certified
Computer Engineering B.S.
Computer Science* B.S.
Computer Systems B.A.
Geology* B.A./B.S.
environmental geology
Health Science* B.S.
environmental health science
health care management*
public health education
Kinesiology* B.S.
exercise science
pedagogy
pre-physical therapy
Mathematics* B.A./B.S.
teachers
Nursing B.S.
Nursing - R.N.
Nutrition and Food Sciences* B.S.
Physics* B.A./B.S.
applied physics*

College of Social and Behavioral Sciences

Anthropology* B.A.
Criminal Justice* B.A.
crime analysis
paralegal studies*
Economics* B.A.
political economy*
Geography* B.A.
global studies*
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.
 childcare development
school age
lifespan
Liberal Studies B.A.
 arts and letters
integrated studies
Spanish studies
teaching
Special Major B.A.

* program also has a minor available. See Page 58 for a complete list of minors offered
Graduate Degree Programs

In the 2012-2014 academic years, the university will offer master’s and doctoral degree programs in the following fields:

- Accountancy M.S.
- Art M.A.
  - art education
  - studio art
- Art M.F.A.
  - studio art and design
- Biology M.S.
- Business Administration M.B.A.
  - accounting
  - cyber security
  - entrepreneurship
  - executives
  - finance
  - global business
  - information systems and technology
  - management
  - marketing management
  - professionals
  - supply chain management
- Child Development M.A.
- Communication Studies M.A.
  - integrated marketing communication
- Computer Science M.S.
- Counseling and Guidance M.S.
- Creative Writing M.F.A.
  - fiction
  - poetry
- Criminal Justice M.A.
- Earth and Environmental Sciences M.S.
- Education M.A.
  - bilingual/cross-cultural
  - career and technical education
  - correctional and alternative education
  - curriculum and instruction
  - environmental education
  - holistic and integrative education
  - instructional technology
  - kinesiology
  - reading/language arts
  - science education
  - special education
  - teaching English to speakers of other languages.
- Educational Administration M.A.
- Educational Leadership Ed.D.
- English Composition M.A.
  - English composition
  - English literature
  - applied linguistics and teaching English as a second language
- Health Services Administration M.S.
- Interdisciplinary Studies M.A.
- Mathematics M.A./M.A.T.
- National Security Studies M.A.
- Nursing M.S.
  - academic nursing education
  - advanced community/public health nursing
  - population-based nursing
  - school nursing
- Psychology M.A.
  - general experimental psychology
- Psychology M.S.
  - clinical/counseling psychology
  - industrial/organizational psychology

Programs Under Development

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

<table>
<thead>
<tr>
<th>Degree</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Archaeology, M.A.</td>
<td>College of Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Correctional Education, Ph.D.</td>
<td>College of Education (joint, with Claremont College)</td>
</tr>
<tr>
<td>Information Systems and Technology</td>
<td>College of Business and Public Administration</td>
</tr>
<tr>
<td>Kinesiology, M.S.</td>
<td>College of Natural Sciences</td>
</tr>
<tr>
<td>Music, M.A.</td>
<td>College of Arts and Letters</td>
</tr>
<tr>
<td>Special Education, M.S.</td>
<td>College of Education</td>
</tr>
</tbody>
</table>

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.
700-799 Courses for doctoral candidates only.
990-999 Special comprehensive exams, projects, units not awarded.
X800-X989 Courses offered through extension only. Credit not degree applicable.
X1000-X9999 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.

Credit Hour

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit the "credit hour" is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. An equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

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 April 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 CSUSB; 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 CSUSB 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. Degree programs which can be completed at the Palm Desert Campus include the following:

- Accountancy, 3.2 Program (M.S.A.)
- Administration (B.A.)
- Accounting Management
- Career and Technical Studies (B.A.)
- Communication (B.A.)
- Criminal Justice (B.A.)
- Designated Subjects (Credential)
- Education (M.A.)
- Career and Technical Studies Reading/Language Arts Special Education
- Teaching English to Speakers of Other Languages
- Educational Administration (M.A.)
- Educational Leadership (Ed.D.)
- English (B.A.)
- History (B.A.)
- Liberal Studies (B.A.)
- Nursing (B.S. and RN-to-BSN)
- Public Administration (M.P.A.)
- Psychology (B.A.)
- Certification and certificate programs which can be completed at the Palm Desert Campus include the following:
  - Administrative Services Credential
  - Multiple Subject Credential
  - Pupil Personnel Services Credential
  - Reading Specialist Credential
  - Reading/Language Arts Credential
  - Single Subject Credential
  - e-Learning Certificate

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 branch campus.

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

Online and Distributed Learning

(909) 537-7439  odl.csusb.edu

The Online and Distributed Learning (ODL) office provides coordination and oversight of a multitude of distributed learning activities at CSUSB, including state-supported degree programs as well as technology-based extension courses and activities. The ODL provides anytime, anywhere access for students who would otherwise be unable to attain a CSUSB degree.

The concept of distributed learning connotes a system through which CSUSB can more fully "distribute" its academic resources to
its diverse and broad-based constituents, locally, nationally and internationally. CSUSB offers several degree programs either fully or partially online or via videoconference, including programs in education, liberal studies, communications, nursing, business, public administration and criminal justice.

Distributed learning techniques engage students actively (or interactively), and focus on helping students achieve class objectives via a number of state-of-the-art technologies, including on-line, blended online, and videoconference. In addition, courses taught off campus at remote sites are coordinated by the Online and Distributed Learning office.

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

Special Courses

More specific information on the special courses described below can be obtained from the Office of Academic Programs or the appropriate colleges, schools, 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, administration, anthropology, art, Asian studies, biology, chemistry, communication, computer science, criminal justice, economics, education, English, environmental studies, ethnic studies, finance, French, gender and sexuality studies, 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, and theatre arts.

On-Line Courses. Online courses and web/classroom courses are identified as such in the Class Schedule 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 which range from once per quarter to weekly, accompanied by significant online materials. Students taking on-line courses should consult the Online and Distributed Learning website at odl.csusb.edu for minimum hardware and software requirements for taking any courses on the Internet.

Facilities

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

The 430-acre campus features more than 33 fully accessible and air-conditioned buildings. In addition to classrooms and laboratories for course work in the arts, letters, 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, the School of Computer Science and Engineering, and the Department of Mathematics.

The campus expansion also includes the John M. Pfau Library addition, doubling the 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 twenty-five meter competition pool, and additional outdoor facilities. The facility houses Athletics, the Nursing and the 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 Printing Services, 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 School of Chemistry and Biochemistry is located in this building and the Biology Department also has a graduate research suite of laboratories 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 addition to faculty and department offices, the College of Education building, which opened in Fall 2008, houses a number of classrooms, all equipped with state of the art technology and internet access. The Student Services Office, one of only a few in the CSU system, provides students with a "one stop" location for processing their credentials and master's degrees, from initial application to program completion. In addition to graduate research labs, the building houses a number of centers and specialized labs, including the Watson and Associates Literacy Center, the Liberal Studies office, a Technology Demonstration Lab, an Evaluation and Assessment Center, a TESOL center, a Center for the Study of Correctional Education, a Research in Integrated Learning and Teaching Center, and computer labs. The Ed.D. in Educational Leadership program, one of the first stand-alone CSU doctoral degrees, is also located in the new building.
Information Resources and Technology

**www.irt.csusb.edu**

The mission of the division of Information Resources and Technology (IRT) is to encourage the use and development of information technology resource management and to motivate the integration and utilization of new and existing campus computing, communications, and media tools and applications. IRT professional staff are committed to being the best in their fields in order to meet the wide and varied needs of the campus community.

Organizationally, IRT is composed of the following six interrelated departments and an Associate Vice President reporting to the office of the Vice President and Chief Information Officer.

- Academic Computing and Media Services
- Administrative Computing Services
- Common Management System
- Data Center and Helpdesk Services
- Information Security Office
- Telecommunications and Network Services

Academic Computing and Media

**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 148 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 200 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

**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, Student Aid Management System, Human Resources and Financials, Degree Audit Record System, and the Development System are all managed by the department. Additional applications, such as the WebComm, and web applications are maintained and enhanced by the ACS analyst/programmers.
Common Management System 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 went live in Fall 2007. Additional information about the CMS project can be found on the website: cms.csusb.edu, and mycoyote.cms.csusb.edu for self service applications.

Information Security Office
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 include 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.

Data Center and Helpdesk Services
helpweb.csusb.edu

The IRT Support Center and 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 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 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 helpweb.csusb.edu, or e-mail at: helpdesk@csusb.edu or jobreq@csusb.edu for the Data Center and Helpdesk Services.

Telecommunications and Network Services
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, career and technical studies, criminal justice, economics, geography, health science, history, human development, human services, liberal studies, mathematics, nursing, psychology, social sciences, sociology, and Spanish. At the graduate level, master's degree programs are available in business administration, biology, criminal justice, education, English composition, health services administration, public administration, and rehabilitation counseling.

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.

Centers and Institutes

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

Community-University Partnerships Institute. Director Diane Podoliske, (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.

Inland Commerce and Security Institute. Director: C.E. Tapie Rohm, Jr., 909-537-5786. The mission of the ICSI is to promote the study, analysis and policies associated with the region's commerce and allied security activities. Further, the ICSI will become a center of excellence serving the commerce and security needs and aspirations of our students, faculty and community.

Center for International Studies and Programs (CISP). Co-Directors: Rosalie Giacchino-Baker and Paul Amaya, College of Education, (909) 537-7537/5193. 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.

Palm Springs Institute for Environmental Sustainability. Co-Directors: Ted Coleman, 909-537-5537 and Fred Jandt, 760-341-2883. The mission of the Palm Springs Institute for Environmental Sustainability is to improve the quality of life in the Coachella Valley through research, education and advocacy on issues pertaining to environmental sustainability. The institute strives to be the premier community partnership for providing research data, consumer information, and practical recommendations regarding environmental sustainability in the Coachella Valley.

Center for the Promotion of Health Disparities Research and Training. Director: Sybil Carrere, 909-537-3844. The Center for the Promotion of Health Disparities Research and Training will promote and accelerate faculty research at CSUSB in health disparities through mentorship and training from nationally recognized health disparities scientists. It will also provide a link between health disparities-related community organizations and university members; advance the number of CSUSB students seeking graduate careers in health disparities; and disseminate CSUSB faculty research and scholarship in the area of health disparities.

Leonard Transportation Center. Director, John Wu, (909) 537-5036. Established to focus on regional transportation needs and serving as a focal point within the Inland Empire to maximize the impact of local transportation initiatives.
Center for the Advancement of Second Language Acquisition. Director: Terri Nelson, 909-537-5849. The CSUSB Center for the Advancement of Second Language Acquisition provides workshops for Inland Empire teachers to enhance their skills. The center presents programs honoring K-12 student achievements and provides enrichment activities. It also provides scholarships for students and teachers to attend summer seminars at UC Santa Barbara.

Media Arts Center (CAL MAC). Director: Todd Johnson, 909-537-5868. The College of Arts & Letters Media Arts Center is dedicated to the creation, production, and analysis of the media arts. It serves the region, the CSU, and the nation by providing a focus for interdisciplinary activities. The center's interests encompass film studies, video, photography, design, performance, music, press releases/articles, scripts/screenwriting, and all other print and electronic arts that are used to communicate messages. The CAL-MAC supports the development of cross-disciplinary curricula, scholarship, artistic projects, activities, and outreach.

Center for Prose Studies. Directors, Jacqueline Rhodes and Ellen Gil-Gomez, Department of English, (909) 537-5026/5816. Established to remedy the lack of a rigorous collective effort devoted to the "product" of expository writing instruction and of the prose itself.

College of Business and Public Administration

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.

Inland Empire Center for Entrepreneurship. Director, Michael Stull, Department of Management, (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 Global Management. Co-Directors: Vipin Gupta, 909-537-5796 and Frank Lin, 909-537-5700. The Center for Global Management is created in order to facilitate developing programs in international business and public administration and supports regional internationalization efforts for the benefit of the faculty, the students, and the local international communities.

Information Assurance and Security Management Center. Director: Tony Coulson, 909-537-5768. The mission of the IASM Center is to promote and study the application of information security management, computer forensics and other related information assurance topics. This center brings together faculty from related disciplines with government and industry for the purposes of research, curriculum development, training and awareness.

College of Education

University Center for Developmental Disabilities (UCDD). Director, Dwight Sweeney, Department of Educational Psychology and Counseling, (909) 537-5495. Established as a clinical training program of the College of Education focuses on Special Education program for evaluation, assessment, training and support for autistic children, their parents and siblings.

Watson and Associates Literacy Center. Director, Diane Brantley, Department of Language, Literacy and Culture, (909) 336-5605. Provides systemic tutorial assistance in reading, writing and oral language for students across the K-12 grade levels as well as adults seeking empowerment and better life opportunities through literacy.

Center for the Study of Correctional Education. Directors, Carolyn Eggleson and Thom Gehring, Department of Educational Policy and Research, (909) 537-5654/5653. Established to serve teachers who work in prisons and juvenile institutions. Conducts major assessment studies, program evaluation, and program development activities under contract with clients such as the California Department of Education, the California Department of Corrections and Youth Authority, as well as institutions overseas.

Center for Teaching English Learners. Director: Lynne Diaz-Rico, 909-537-5658. The Center for Teaching English Learners serves as a resource center for prospective and practicing teachers whose classroom teaching is impacted by the presence of culturally and linguistically diverse (CLD) learners and who seek innovative strategies for teaching English; as a materials development laboratory for educational master’s projects in the area of teaching English to speakers of other languages, as a resource and referral service for partnership school districts who seek training for teachers, and as locus for initiation of grant proposals in the area of providing high-quality education for English learners.

College of Natural Sciences

Water Resources Institute. Director, Susan Lien Longville, (909) 537-7684. Development of an extensive collection of current GIS-based data and historical records related to water, including aspects such as water rights, quantity, quality, treatment and management. Supports, coordinates and conducts research in all water-related areas. 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.

Center for the Enhancement of Mathematics Education. Director, Davida Fischman, Department of Mathematics, (909) 537-5394. Established to serve as a vehicle for identifying, analyzing, and addressing the needs of mathematics teachers in the Inland Empire.

College of Social and Behavioral Sciences

Institute for Child Development and Family Relations. Director Sybil Carrere, Department of Psychology, (909) 537-3844. 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.

Learning Research Institute. Director, James Kaufman, Department of Psychology, (909) 537-3841. Established to promote interdisciplinary scholarly focus on teaching and learning and how it may be improved.

Center on Aging. Director: Julian Montoro-Rodriguez; College of Social and Behavioral Sciences, (909) 537-5580. Committed to interdisciplinary and collaborative efforts in research, educational programs and service to the community. The center’s mission is to facilitate basic and applied research to enhance the quality of life of older adults and their families in Southern California; to train and educate professionals on best practices for serving older adults, and to advocate on behalf of older adults and their families.
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 20,000 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 50 recognized universities and institutions of higher education in 18 countries, the International Programs also offers a wide selection of study locales and learning environments.

**Australia**
- Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, University of Western Sydney, Victoria University

**Canada**
- Concordia University (Montréal)

**Chile**
- Pontificia Universidad Católica de Chile (Santiago)

**China**
- Peking University (Beijing), Shanghai Jiao Tong University (Shanghai)

**Denmark**
- Danish Institute for Study Abroad (international education affiliate of the University of Copenhagen)

**France**

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

**Ghana**
- University of Ghana, Legon

**Israel**
- Tel Aviv University, The Hebrew University of Jerusalem, University of Haifa

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

**Japan**
- Waseda University (Tokyo), University of Tsukuba

**Korea**
- Yonsei University (Seoul)

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

**South Africa**
- Nelson Mandela Metropolitan University, Port Elizabeth

**Spain**
- Universidad Complutense de Madrid, Universidad de Granada

**Sweden**
- Uppsala University

**Taiwan**
- National Taiwan University (Taipei), National Tsing Hua University (Hsinchu)

**United Kingdom**
- Bradford University, Bristol University, Hull University, Kingston University, Swansea University

The International Programs pays all tuition and administrative costs abroad for participating California resident students to a similar extent that such funds would be expended to support similar costs in California. Participants are responsible for all CSU tuition and program fees, personal costs, such as transportation, room and board, and living expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

To qualify for admission to the International Programs, in most 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 Canada, China, France, Germany, Korea, Mexico, Sweden and Taiwan. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

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 176 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 fall or 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.

University Enterprises Corporation at CSUSB

(909) 537-591 uec.csusb.edu

On July 1, 2011, the Foundation changed its name to University Enterprises Corporation at CSUSB to better focus on the business enterprises that support the university. University Enterprises Corporation (UEC) is responsible for business enterprises on campus including, but not limited to, dining services, bookstore, convenience stores, and vending services. UEC also serves as the grantee for federal, state, and local funding for research and sponsored projects.

CSUSB Philanthropic Foundation

(909) 537-7769 csusbfoundation.csusb.edu

CSUSB Philanthropic Foundation, formerly known as the Foundation for California State University, San Bernardino, is the officially recognized charitable gift-processing auxiliary organization of California State University, San Bernardino (CSUSB). The Foundation operates as a tax-exempt 501(c)(3) organization and its federal Tax ID number is 45-2255077.

The Foundation encourages gifts and financial support while creating learning opportunities for students, alumni, and the community that complement the University’s teaching, research and public service goals driven by intellectual interaction and creativity.

The CSUSB Philanthropic Foundation is a non-profit corporation chartered solely to support, benefit and advance the mission of California State University, San Bernardino that fosters a supportive and welcoming social and physical setting where students, faculty and staff feel they belong and can excel.

Coyote Bookstore

(909) 537-5966 www.coyotebooks.bkstr.com

The Coyote Bookstore is operated by the Follett Higher Education Group. 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 textbook rental, year-round book buy-back, special orders in all departments, and gift certificates. Students, faculty and staff enjoy educational discount prices on computer hardware, peripherals and software.

Dining Services

(909) 537-5917 www.csusbдинing.com

Dining services are provided throughout the University by Sodexo. 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-to-order sandwich station and an array of snacks and drinks. The 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 Santos Manuel Student Union. This food-court-style eatery features a number of national food chains including Pizza Hut, Taco Bell, Denny’s and a Starbucks coffee house. In addition, the national brands Wow Café and Wingery and Subversions, features sandwiches and wings. The Blue Coyote pub, located on the second floor, offers a lively ambiance and appealing menu specials.

Sodexo’s Catering Department offers full-service catering for all types of on- and off-campus events including weddings, banquets, retirement dinners, special department luncheons, and private parties.

Convenience Stores. Three convenient locations make the Coyote Express and Coyote Market convenience stores the perfect solution to the busy college lifestyle offering a wide variety of pre-packaged sandwiches and salads, cold drinks, coffee, espresso drinks and tempting snacks, perfect for on-the-go dining. Scantrons and bluebooks stores. Cash, credit, and Coyote One Card Flex Cash accepted.

The Express stores are located on the second floor of Jack Brown Hall, in the wedge of Pfau Library, in the main Library, and in the Santos Manuel Student Union.

CSU Soda Springs Desert Studies Center

biology.fullerton.edu/dsc

The Desert Studies Center, a desert field station in the Mojave Desert, 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 Desert Studies Office can supply information to those seeking to use or visit the Desert Studies Center or phone (657) 278-2428; e-mail: WPreisch@Fullerton.Edu.
These undergraduate and graduate student staff members have assistants who live in the Serrano, Arrowhead, and University Villages. Among the more popular programs sponsored by RHA in the past are movie nights, hall competitions, trips, and study break activities. These make living on campus an exciting and rewarding experience.

Board and the Village Council offer a variety of opportunities to programs for the residents of the "Villages." Each year, an executive board of four is elected for the Villages. The Housing and Residential Life staff is available for residents to relax and meet with friends.

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.

The Residence Hall Association (RHA) organizes student programs for the residents of the "Villages." Each year, an executive board and the Village 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 40 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. 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 utilities and 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 Serrano Village for 2012-14 is projected to be $493 per person, per month for a double room, $615 per month for a single room, and $668 per month for a super single room. Rental rates in Arrowhead Village for the 2012-14 academic years are projected to be $690-721 per month for a private, single occupancy bedroom, $833 per month for a private studio and $849 per month for a super single 2 bedroom, 2 bathroom unit. Rental rates in University Village for the 2012-14 academic years are projected to be $732 per month for a 4 bedroom, 2 bathroom unit; $822 per month for a 2 bedroom, 1 bathroom unit; and $838 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. Spaces are rented on a per-bed basis rather than per-apartment which 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.

On-campus housing in Serrano Village is guaranteed for first-year students who submit a completed application packet by the priority deadline of May 31 for the next academic year. 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 movie, karaoke, open mic nights and more; the Club Allocation Budget which supports clubs and their programming efforts; and the Associated Students Productions which brings major talent to campus and co-sponsors entertainment events with the Cossouls 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, Vice President for the Palm Desert Campus, and the members of the ASI Board of Directors from amongst 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, administration and state legislators. Many of our alumni have gone on to very successful careers in education, business, medicine, law, etc., and all of them who stay in touch cite their experience at ASI as a very positive factor in their development and success. 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, Starbucks, Coyote Express convenience store, theatre, game room and a spacious lobby. Offices for the Associated Students, Inc., the Office of Ombuds and Gender Equity, and the Office of Student Leadership and Development are part of the facility. Services provided in the Student Union include meeting rooms for organizations, a 1,000-seat Events Center used for major events, an Automatic Teller Machine, free notary services to students, graphics services, and Student Union scheduling.

The Osher Adult Re-Entry Center (OARC) offers support for non-traditional students by providing a variety of programming that address both the academic and social needs of mature students. The OARC 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 OARC 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 Pride Center provides a safe, friendly environment for Lesbian, Gay, Bisexual, Transgender, Intersex, Queer, Questioning and Allied students, faculty and staff. The Pride 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 Pride Center is committed to providing services to LGBTIQQ students of all cultures, backgrounds, religions, classes, ethnicities, genders and sexual orientations. In addition the Pride Center provides a meeting place for the Lesbian, Gay, Bisexual, Transgender and Straight Alliance.

Program 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.

Coustoulis Arena

Arena Management Office, HP-121
(909) 537-7360   arena.csusb.edu

Coustoulis 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
- BB King
- 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   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  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  studentleadership.csusb.edu
Greek Life is a great way to get involved on campus, and CSUSB is home to eighteen 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  studentleadership.csusb.edu
The Leadership Academy is a comprehensive certificate program 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  campusrec.csusb.edu
The new Student Recreation and Fitness Center is proud to offer an exciting fulfillment of creative programs in the areas of fitness, wellness, intramural sports, aquatics, outdoor adventure and informal recreation. This new 37,000 square foot complex, located at the south end of campus, houses a 34’ 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 welcomed.

Outdoors/Climbing Wall
The unique location of the campus at the foothills of the San Bernardino Mountains allows an enjoyment of a wide range of activities with close proximity to the Pacific coastline, the wilderness of Baja, the peaks of the Sierra Nevada Mountains, and the High Desert, including the beaches and the peaks and crags of Southern California as an extension of the university classrooms. Participants on outings will learn how to recreate safely in the great outdoors, develop an appreciation and understanding of the natural surroundings, experience personal growth and leadership development, learn teamwork and healthy communication skills, and of course... have fun. At the centerpiece of the Student Recreation and Fitness Center is a 34’ climbing wall that will offer beginning and intermediate classes, open climb and special wall events. All equipment is provided for students and a safety orientation and skills test is offered to our participants.
• Backpacking  • Day hikes  • Overnight excursions  • Snowboarding

Intramurals
The Intramural Sports program offers a variety of sport leagues and tournaments for experienced athletes or those just looking to learn a new sport providing participants enjoyable, innovative and safe activities for all skill levels and interests.
• Basketball  • Dodge ball  • Golf  • Softball  • Volleyball

Fitness/Wellness/Group Exercise
The Student Recreation and Fitness Center now offers one-on-one personal training, beginning weight training classes, nutritional evaluation and fitness assessments as a complement to our state of the art fitness room. The Group Exercise program offers over 15 classes per week. All programs are designed to enhance the participant’s experience and facilitate healthy living habits.
• Bicycles  • Elliptical trainers  • Free weights  • Hip hop  • Martial arts
• Fitness assessments  • Plate loaded equipment  • Treadmills  • Yoga

Aquatics
The swimming pool is located behind the Physical Education building. Hours vary and can be found on the webpage.
• Aerobics  • Certification and training  • Informal water polo  • Learn to swim

Informal Recreation
The hours of the Student Recreation and Fitness Center are designed to meet the busy lives of our participants 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 allowed. Members can meet up with friends to shoot hoops, practice their hip-hop or toll their martial arts skills. Informal recreation hours will be posted outside of each of the three available rooms.
Career Development Center

career.csusb.edu

The mission of the Career Development Center is to support the academic purpose of the University by providing comprehensive career services that result in the advancement of student learning and career success. The programs and services are designed to meet the career/life challenges of students and recent graduates who are planning for their future. Services include:

- Career counseling
- Workshops and presentations
- Education Job Fair, Career Expo, and special events
- Job listings (full time and part time) including a Job Kiosk (classifieds from seven newspapers)
- Employer information tables and sessions
- On campus interviews and recruitment
- Monstertrak and Interviewtrak
- Resume critiques (in person and on-line) and mock interviews
- Interest assessment testing
- Career Resources Library and Computer lab with access to internet job searches
- Employer files and research
- San Manuel Internship Program

Visit career.csusb.edu or stop by in person to learn more about these valuable services.

Financial Aid

Financial Aid Office
(909) 537-5227 finaid.csusb.edu

The Financial Aid Office administers a variety of Federal and State programs to assist eligible students. Sources of aid include the Federal Pell Grant, the Supplemental Educational Opportunity Grant (SEOG), Cal Grant A/B, Federal Direct Loans, the Perkins Loans, TEACH Grant, and the Work-Study program. The Federal Direct Student Loans, Direct Plus Parental Loans, and alternative loans are also available. The office also administers the Cal Grant, the State University Grant (SUG), Graduate Business Grant (GBG), Ed Doctorate Grant (Ed Doc), and the Educational Opportunity Program Grant (EOP).

Work-Study. Work-Study is a federally funded program that provides part-time employment for students who are eligible to participate in need-based financial aid programs. Work-Study students are placed in on and off-campus positions to help offset a portion of their educational expenses. Work-Study at CSUSB also provides job opportunities for students to develop job skills and secure academic or career-oriented jobs. For additional information visit the Financial Aid website or contact the Student Employment Team at (909) 537-5226.

The Free Application for Federal Student Aid (FAFSA) must be submitted to the processor by March 2nd each year. Late applications are accepted after March 2nd and throughout the school year if funds are available. Apply online at finaid.csusb.edu. A full description of the university's financial aid programs is available on this website.

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Financial Aid Chart

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<tr>
<td>Federal Pell Grant</td>
<td>High school or college counselor</td>
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<tr>
<td>Federal Supplemental Educational Opportunity Grant (SEOG)</td>
<td>University financial aid officer</td>
<td>need</td>
<td>no</td>
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<tr>
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<td>University financial aid officer</td>
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<td>Cal Grant A/B, Fellowships</td>
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<td>Federal Educational Opportunity Program Grant</td>
<td>High school or college counselor</td>
<td>GPA, need</td>
<td>no</td>
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<tr>
<td>State University Grant (SUG)</td>
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<td>need</td>
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<td>Graduate Business Grant (GBG)</td>
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<td>Federal Subsidized Direct Loan</td>
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<td>Grad Plus Loan for Graduate Students</td>
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<td>yes</td>
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<tr>
<td>Work-study (on and off-campus)</td>
<td>University financial aid officer</td>
<td>need</td>
<td>no</td>
</tr>
</tbody>
</table>

*Potential to become repayable (consult with a financial aid officer)

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. Please visit the Financial Aid website finaid.csusb.edu.
Scholarships

Scholarships listed below are awarded to new and continuing students attending CSUSB. The CSUSB Financial Aid Office administers most scholarships on campus. Scholarships administered by the CSUSB Financial Aid Office can be applied for on-line via MyCoyote in early fall through the first Friday in February. 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’s Scholarship Hotline at (909) 537-7399. Department majors and associations administer some of the scholarships listed below. Applications and further information about them may be obtained by calling the phone numbers listed at the end of each posting.

Scholarships for Incoming Freshmen

Albert K. and 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 scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). Some awards may automatically be renewed for an additional three years. No special application is required for renewal.

Alumni Association Scholars Program annually awards a 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). Some awards may be renewed for an additional three years. No special application is required for renewal.

Business Access and Opportunity Program provides 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 Future Scholars Program awards thirty scholarships to California students with disadvantaged backgrounds. This scholarship is funded by the California State Lottery.

City of San Bernardino Confidential/Management Association (SBCMA) Scholarship awards a scholarship to a full-time incoming freshman with a minimum 3.0 GPA with at least one parent employed by the City of San Bernardino. Preference is given to students who are the first person in their immediate family to attend college. If there are no applicants where one parent is employed by the City, student should be a resident of the City of San Bernardino.

Donnie LaFluer Athletic Scholarship is a scholarship awarded to an incoming freshman who will be playing for the CSUSB women’s softball team. Initial awardees must be a softball pitcher. Subsequent awardees may be position players. Students must have a 2.5 GPA. The awardee will be selected by the CSUSB softball coach.

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, and 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). 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 San Bernardino County high school students who graduate within the top 1% of their high school graduating class. Students must be nominated by their high school principal in order to be considered for this award. The scholarship 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.

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, contact the California Student Aid Commission at (916) 526-7590 or visit the CSAC website at www.csac.ca.gov.

Robert and 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.

Shervin Tehranchi Scholarship provides 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 scholarship to a student who has attained 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 and 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.

Arlene Roberts Memorial Scholarship provides an award to a full-time art major with a minimum 3.0 GPA, and who has financial need.

California State University, San Bernardino Music Department provides 10 merit scholarships 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 to students who have demonstrated excellence in the field of theatre arts. For more information, contact the Theatre 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 and
Public Administration, 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.

**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 3.0 or better. For more information, contact the Music Department at (909) 537-5859.

**Friends of the Edward Dean Museum and Gardens Scholarship** provides an award for students majoring within the Department of Art with an emphasis on Art History, Art Education or Studio Art; must be at least a junior to qualify, must have a minimum GPA of 3.0 or better, and demonstrate an interest in developing a career in Art History, Museum Studies or Art Education. Financial need considered but not essential. Student will complete a CSUSB and Edward Dean Museum supervised project-oriented internship at the Edward Dean Museum working within the Permanent Collection. Project time and student scheduling to be arranged and developed between CSUSB, Edward Dean Museum and the scholarship recipient. Project will be a year-long project.

**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 Department of World Languages and Literatures at (909) 537-5847.

**Taewoong and Soonna Oh Kim Scholarship** provides an award to a student majoring in the Art Department, has a minimum 3.2 GPA, and demonstrates an interest in pursuing a career in the Visual Arts. Financial need is considered but not essential.

**Vivien Bull Scholarship** provides a 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.

**Scholarships for College of Business and Public Administration**

**Arrowhead Credit Union Scholarship** provides 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.

**Arthur L. Littleworth Scholarship in Water Resource** provides scholarships to CSUSB students who are residents of California, have a minimum 3.0 GPA, and enrolled in any CSUSB degree program that offers a concentration in water resources or the MPA in Water Resources Management, demonstrates leadership qualities, and has financial need.

**Bernard C. Kersey Scholarship** provides an award to a student enrolled in the CSUSB’s Water Resources Institute degree program, has a minimum GPA of 3.0, and demonstrates an interest in continuing in the water resources field. Financial need is considered by not essential.

**Beverly Smith Scholarship** is awarded to a student majoring in finance or ecology, and must have and maintain a 3.0 GPA.

**Business Access and Opportunity Program** provides scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business and Public Administration. For more information, contact Dr. Mohammad 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 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 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 Arrowhead Distinguished Executive Officer Scholarship** is awarded to a student who is full-time, 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 Public Administration, 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.

**Charles and Shelby Oberershaw Scholarship** provides scholarships to credential students in the College of Education, and to undergraduate business students. The award is for students that are at least a junior, have a minimum 3.0 GPA, and financial need.

**Clifford Young, Ph.D. Scholarship** awards a 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 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.

**Food Industry Sales Association Scholarship Honoring Jack Brown** offers five scholarships to students majoring in Business or Public Administration, available to sophomores, juniors, or seniors, and must have a minimum 3.0 GPA. Preference will be given to students employed in the food industry or demonstrate an intent of pursuing a career in the food industry. Financial need may be considered but academic excellence is the primary criterion for selection. Student scholarship recipients may reapply for up to four years.

**George H. Schnarre Arrowhead Distinguished Executive Officer Scholarship** is awarded to students who are majoring in the College of Business and Public Administration and have a cumulative 3.25 GPA. Preference given to students majoring in Real Estate, Finance, or Accounting.
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 GPA. For more information contact Dr. Christine Schalow in the College of Business and Public Administration at (909) 537-5781.

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

Janice Tillema Memorial Scholarship awards a 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 and Stewart Scholarship Honoring James H. and Lois B. Krieger for their 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, 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.

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

Richard C. Moseley Marketing Scholarship provides scholarships to students majoring in Marketing, a minimum 3.0 GPA, must be a sophomore, junior, or senior, and must be a full-time student. First preference will be given to employees of Stater Bros. Markets and immediate relatives of employees of Stater Bros. Markets. Second preference will be given to individuals employed in the supermarket industry as well as individuals who intend to pursue a career in the food industry. Financial need considered but not essential. 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, has a minimum 2.50 GPA, is 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 complete an 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 the biggest risk is that they have taken in the past three years, d) a description of the recent personal or professional failure and what they learned from it, and e) how the scholarship will make a difference for them. For additional information, please contact Mike Stull in the Inland Empire Center for Entrepreneurship Office at (909) 537-3708.

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. For questions regarding this scholarship contact the College of Business and Public Administration at (909) 537-5700.

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.

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

California Retired Teachers Association provides a 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.

Carol Arline DeVault Scholarship provides an award to a student enrolled in the M.A. in Education, Environmental Education option at CSUSB, and 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 Public Administration, 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.

Charles and Shelby Obershaw Scholarship provides scholarships to credential students in the College of Education, and to undergraduate business students. The award is for students that are at least a junior, and have a minimum 3.0 GPA, and financial need.

Clara McKinney Scholarship provides a 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 scholarships to full-time 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 Scholarship is awarded annually to students in the Education and Nursing Departments.

Margaret Lenz Scholarship provides a scholarship to a student pursuing a teacher preparation credential.
Marilyn Sauer Scholarship provides a scholarship 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 scholarship 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 six quarter units at the undergraduate level or four 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, and 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.

Scholarships for College of Natural Sciences

Bitoun Family Scholarship provides a $1,000 scholarship to help meet the cost of education including fees, books, expenses, room and board. Students must be enrolled in the nursing program and be a recipient of the Presidential Academic Excellence Scholarship.

Community Foundation Serving Riverside and San Bernardino Counties provides a variety of scholarships to full-time 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 Scholarship is awarded annually to students in the Education and Nursing Departments.

Dr. Prem Reddy Academic Excellence Scholarship assists in funding half of two President's Academic Excellence Scholarship recipients (PAES) annually who are from the High Desert Region, and are health care majors (i.e. nursing, pre-med, and health education). Students must maintain a 3.5 GPA and complete a minimum of 36 units each academic year.

Katsuhiro Hoichi Scholarship provides scholarships to students enrolled in a major under the College of Natural Sciences with priority given to nursing, computer science, and health-related careers, has a minimum 3.0 GPA, and has unforeseen financial need that endangers having to interrupt progress to degree. For more information, please contact the College of Natural Sciences at (909) 537-5300.

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.

Lois B. Krieger/Metropolitan Water District Scholarship provides a scholarship to a student currently enrolled or enrolling in 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).

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, 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.

MASS (Mathematics and Science Scholars) awarded to academically talented undergraduate students who demonstrate financial need and who intend to pursue a major in the mathematics or science disciplines with a declared major in Biology, Chemistry/Biochemistry, Computer Science, Geological Sciences, Mathematics or Physics. Need-based awards are awarded annually and renewable for up to four years during the grant period as long as the student is enrolled full-time and remains in good academic standings.

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.

Rhea M. Posjena Memorial Nursing Scholarship is awarded to a CSUSB student majoring in Nursing, has a minimum 3.0 GPA, and must be a sophomore, junior, or senior. Financial need is considered but not essential.

Ruben Ayala Scholarship provides scholarships to students enrolled in the Bachelor of Science in Geology, Environmental Geology concentration or Masters in Public Administration. Preference is given to students who have at least a 2.5 GPA.

Scholarships for College of Social and 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.

Arrowhead Credit Union Scholarship provides 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.

Aubrey W. Bonnett Scholarship is a scholarship given to students whose major is in the College of Social and Behavioral Sciences at CSUSB, have involvement in some type of community service (volunteer service or internships for clubs and community...
organizations would be included) and exhibit some leadership with regard to same, and have a minimum GPA of 3.5.

California State University, San Bernardino Economics Department awards the Economics Alumni Scholarship to economics majors or administration majors concentrating in business economics. 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.

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.

Economics Alumni Scholarship is provided by generous donations from more than 60 graduates of Economics and Business Economics degree programs at CSUSB. Students must be attending CSUSB as a declared economics major or an administration major with a declared concentration in business economics. Applications and additional criteria are available through the CSUSB Economics Department Office.

Geography Department Senior Year Scholarship awards students who are geography majors, must be in their senior year at CSUSB, and must have a minimum GPA of 3.0.

Industrial Organizational Psychology Master of Science Scholarship provides a scholarship to a CSUSB student enrolled under the College of Social and Behavioral Sciences in the Master of Science in Psychology, Industrial Organizational program and has a minimum 3.30 GPA. First and second year students may apply for this scholarship. Financial need is considered but not essential.

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

John W. Kennedy Scholarship provides a 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 Kirk Memorial Scholarship provides an award to a student enrolled in the Master of Science in Psychology, Clinical Psychology.

McBride Family Economics Alumni Scholarship is provided by generous donations from Gary McBride and his family. Gary graduated from the Economics Department and was a winner of the Janczyk Family Economics Scholarship in 1992/93. To be considered for the McBride Family Economics Scholarship, a student must be a declared economics major or an administration major with a declared concentration in business economics. Applications and additional criteria are available through the CSUSB Economics Department Office.

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.

Robert and Frances Fullerton Scholarship provides an award to a student pursuing a paralegal or law degree upon graduation.

Sean Brunske Economics Scholarship provides an award to a student in a declared economics major or an administration major with a declared concentration in business economics. Applications and additional criteria are available through the CSUSB Economics Department Office.

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

Vince Vegna MFT-Kaiser Permanente Scholarship provides a scholarship to a student who is a declared psychology major and is enrolled in the M.S. in Psychology Clinical/Counseling Psychology option beginning their second year in the program. Preference is given to a student serving his/her nine-month internship at the Moreno Valley Addiction Medicine-Chronic Pain Management Department with Kaiser Permanente.

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.

Albro Scholarship is a scholarship awarded annually to a full-time student interested in studying African-American issues and/or pursuing service to the African American community.

Associated Students, Incorporated Scholarship (ASI) provides 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 financial need.

California State University, San Bernardino Associates Scholarship provides two scholarships 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 (ALFSS) annually provides scholarships to students who have evidenced an interest in Hispanic cultures. These are administered by the Association of Latino Faculty, Staff and Students (ALFSS). The minimum GPA is 2.5.

California State University, San Bernardino Foundation Scholarship provides scholarships to continuing students with superior academic records and financial need.

Community Foundation Serving Riverside and San Bernardino Counties provides a variety of scholarships to full-time 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 scholarship 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 student with a minimum 2.8 GPA, open to any major, and must be working 25 hours per week while 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.

Faculty and Staff Memorial Scholarship honors the memory of deceased university faculty and staff. 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).
Frances D. Morongo Scholarship is awarded to a CSUSB student who has attended Sherman Indian High School, or can demonstrate an interest in Native American Studies.

Graduate Equity Fellowship Program. California State University, San Bernardino annually awards Graduate Equity Fellowships to educationally or financially disadvantaged students, including underrepresented minority, women, or disabled graduate students during an academic year. The goal of the Graduate Equity 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 earn a Ph.D., and eventually teaching at the university level. Fellowships are renewable for an additional year, on a competitive basis. For more information contact the Graduate Studies Office at (909) 537-5058.

Mara Simmons Scholarship provides a scholarship to a full-time student who has a physical or a learning disability and a minimum 2.5 GPA.

Metro City Church Scholarship is awarded to a CSUSB student who is a President’s Academic Excellence Scholarship (PAES) recipient, must comply with the criteria established under the PAES terms.

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, please visit the Financial Aid website. (see Scholarship>Application.)

Lee and 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.

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.

Osher Re-Entry Scholars provides twenty $2,500 scholarships each to reentry students between the ages of 25 and 50. Scholarship monies are applied towards fees/tuition only. For more information contact Janet Honn-Alex at the Women's Resources/ Adult Re-Entry Office at (909) 537-7715.

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

Rose Brown Scholarship provides 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.

Ruth and Sidney Saleson Scholarship is awarded to students with a minimum 3.0 GPA and must be a single parent. Preference is given to students who have financial need.

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.

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

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

Thomas L. Markley Scholarship is awarded to a CSUSB Police Radio Communications employee with the most seniority within the CSUSB Police Department and must have financial need with emphasis on being a single parent as the primary provider for minor child (children). Second preference given to CSUSB Police Radio Communications employees who are married and comply with the other criteria. If no Police Radio Communications employees apply, then the funds will be available to CSUSB Community Service Officers who comply with the criteria.

Travis D. Chatigny Memorial Scholarship provides scholarships to CSUSB students who are physically disabled. Applicants must write a personal statement about what "living with purpose" means to them.

William H. Wilson Scholarship is an award provided to a full-time student at CSUSB, preferably from the immediate San Bernardino area. Applicants must demonstrate economic need.

Scholarships for Students Attending the CSUSB Palm Desert Campus

Coeta and Donald Barker Scholarship awards scholarships to nursing students who attend CSUSB Palm Desert Campus, have a minimum 3.0 GPA, and have financial need. Financial need is determined by completing the 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.

Josephine Lombardo Scholarship provides a scholarship to a student enrolled under the College of Arts and Letters majoring in Music, demonstrates character, talent, and a commitment to the study of classical music with the goal of working towards a career in classical music, has a minimum 3.0 GPA, and has financial need. Preference will be given to Coachella Valley residents who are pursuing a music degree at the CSUSB Palm Desert Campus.

Mary Stuart Rogers 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.

Ingster Family Scholarship awards scholarships to CSUSB Palm Desert Campus students who have a minimum cumulative GPA of 3.0 and be admitted to a teaching credential or Education Master’s degree program. 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.

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.

Palm Desert Women’s Club Scholarship is awarded to CSUSB students enrolled in the BSN or MSN nursing programs at the Palm Desert Campus, must have a 3.0 GPA, and must be a full-time student. Financial need is considered but not essential.

Roderick M. Hendry Scholarship provides scholarships to students with an overall GPA of 3.0, open to any declared major available at the Palm Desert Campus (PDC), must be an undergraduate student, must be enrolled as a full-time student at CSUSB PDC, must have completed at least 30 semester or 45 quarter units of college course work with a required minimum of 9 semester or 12 quarter units of course work in their declared major with at least a 3.0 GPA, and must submit a 500 word essay as to why they want, need, and deserve this scholarship. Financial need is considered but not mandatory.
Steve and Catharine Briggs Scholarship provides scholarships to students enrolled in the College of Natural Science’s nursing or allied health professions degree programs, must attend the Palm Desert Campus, and demonstrate a commitment to the pursuit of a career in nursing or the allied health sciences. Financial need is considered but not essential.

Ward and 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 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 Pathways to Success Program awards scholarships of up to $5,000 per year to Coachella Valley undergraduate students who have a minimum 2.0 GPA, and have financial need. Students must demonstrate leadership or involvement in their community or school and have the desire and motivation to succeed. Students must submit two letters of recommendation from a professor, instructor, counselor, or community leader. The Pathways to Success Program Application must be postmarked by the established deadline for the award year.

Off-Campus Scholarships

Off-campus scholarships are administered by other organizations not affiliated with CSUSB. Organizations such as community organizations, private companies, religious affiliations, etc. Listed below are just a few of the different sources to use when searching for off-campus scholarships. The information below was provided by off-campus organizations. Additional scholarships can also be found on the online Scholarship application by clicking on the "Search Scholarships" link.

Army ROTC armyrotc.csusb.edu/resources/scholarships.htm Scholarships. Through arrangements with Claremont McKenna College and the Department of Military Science at California State University San Bernardino, Army Reserve Officers' Training Corps programs are available to all qualified CSUSB students. Academic units earned in the program may be counted as elective units toward fulfillment of graduation requirements. Upon graduation and the successful completion of the Army ROTC program leads to a commission as a Second Lieutenant in the United States Army. Subsequent service will follow either as an active duty officer, an Army National Guard officer, or as a Reserve officer. Scholarships for 1.5, 2, 3, and 4 years are available to qualified students. Scholarships cover tuition or room and board. A monthly stipend from $300 to $500 is paid during participation in the program. In addition, participants receive a $1200/yr book allowance. Simultaneous participation with an Army National Guard or Reserve unit is also available. Army ROTC students in this program receive additional pay and benefits. There are also additional benefits for veterans. Interested students may obtain more information by calling the Army ROTC Program, California State University, San Bernardino at (909) 537-5533 or the enrollment officer at (909) 286-0113, email jmcb@csusb.edu.

Gates Millennium Scholars Program (GMS) www.gmsp.org/ Established in 1999, the program was initially funded by a $1 billion grant from the Bill & Melinda Gates Foundation. The goal of GMS is to promote academic excellence and to provide an opportunity for outstanding minority students with significant financial need to reach their highest potential. The GMS program is more than just a scholarship. The GMS program offers Gates Millennium Scholars with Academic Empowerment (ACE) services to encourage academic excellence; mentoring services for academic and personal development; and an online resource center that provides internship, fellowship and scholarship information.

SAP America Scholarship Program. This program recognizes outstanding undergraduate students pursuing a degree in business, computer science, mathematics, or engineering. To learn more about the program and its requirements, visit their website. To apply for the scholarship program, visit the application site Scholarship Application. To be considered, applicants are required to submit the completed application, current transcript, resume, paper, and letter of recommendation following the directions listed in Program Requirements, to citizen,B usip@sap.com.

The Hispanic Scholarship Fund (HSF) and College Access Foundation have partnered to provide scholarship awards to assist outstanding Latinos who are high school seniors from Inland Empire (California counties of Riverside and San Bernardino) and that are planning to enroll at either the University of California, Riverside or California State University, San Bernardino. Selected students may receive the award for four years at $3000 per year.

The Pathways to Success Program awards scholarships of up to $5,000 per year to Coachella Valley undergraduate students who have a minimum 2.0 GPA, and have financial need. Students must demonstrate leadership or involvement in their community or school and have the desire and motivation to succeed. Students must submit two letters of recommendation from a professor, instructor, counselor, or community leader. Applications are available at The Pathways to Success Program and must be postmarked by the established deadline for the award year.

The National Federation of the Blind is currently accepting scholarship applications. Scholarship awards range from $3,000 to $10,000. Visit the The National Federation of the Blind website to apply.

John Gyles Education Awards are available to U.S. citizens, must have minimum 2.7 GPA and have financial need. Visit the John Gyles Education Awards website to apply.

Scholarship Search Engines are tools students can use to locate other scholarship opportunities. Students provide a profile, and the search engine alerts them to scholarship opportunities that match their criteria. Listed below are just a few examples of Scholarship Search Engines that students may use:

FastWEB is one of the largest scholarship search engines on the Internet. It provides access to a searchable database of more than 275,000 private sector scholarships, fellowships, grants, and student loans available to students.

ScholarshipExperts.com has been helping parents and students find scholarships for over five years. The database is constantly updated to provide the most accurate scholarship information available.

Scholarships.com is a free college scholarship search and financial aid information. It assists parents and students in obtaining scholarship awards for college and in exploring all financial aid for which the student is eligible. It also provides information and resources of local, state, and national scholarships and grant opportunities, in addition to the Federal and private loan options for funding a college education.

Other Information Regarding Scholarships

The Federal Student Aid Office provides students with information on how to find scholarships, and also provides information that educates, such as scholarship scams. Listed below are some additional web sites:

The Federal Trade Commission (FTC) web site has information on scholarship scams and how to avoid them.

National Association of Financial Aid Administrators has consumer scholarship tips.

The Federal Student Aid Programs are the largest source of student aid in America, providing over $40 billion a year in grants, loans, and work-study assistance. Here students will find help for every stage of the financial aid process, whether in school or out of school.
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.

Office of Ombuds Services and Gender Equity
Santos Manuel Student Union, Room 202
(909) 537-5634 ombuds.csusb.edu

The term “ombuds” is a Swedish word which refers to the people’s representative. The Office of Ombuds Services is a confidential, neutral, independent, and informal resource for students, faculty and staff. The service assists individuals with conflict resolution, disputes, complaints, exploring options, facilitating communication between parties in various ways, providing information on policies or procedures and making referrals to other helpful resources. The Ombuds’ goal is to seek constructive and equitable outcomes on any university-related concern.

Ombuds Services are provided free-of-charge and works collaboratively with campus constituencies to help resolve issues.

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 post-secondary education. The program targets middle school students through Project UPBEAT (University Preparation By Early Academic Training). Project UPBEAT’s objective is to provide an educational, college-oriented program to students and parents. Primary emphasis of the program is to increase the number of students pursuing a college education. Project UPBEAT participants are likely to be regularly admisible 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 participating middle schools throughout the Inland Empire. For more information, contact the Office of Admissions and Student Recruitment at (909) 537-5188, or visit admissions.csusb.edu

Student Health and Psychological Counseling Center

Accredited by the American Association of Ambulatory Health Care
Accredited by the International Association of Counseling Services
Student Health Center
(909) 537-5241 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.

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 and 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. For specific information about required immunizations call the Immunization hotline at (909) 537-7356, visit at healthcenter.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 (PCC)
Health Center Building, Room 162
(909) 537-5040 psychcounseling.csusb.edu

The Psychological Counseling Center is available to currently enrolled students for assistance with personal issues that may interfere with their efforts to achieve education or life goals, including adjustment to campus life, parenting skills, addictions, relationship or lifestyle issues, mood and anxiety disorders, or any other issue of concern. Couples may be seen as long as one member of the couple is a currently eligible student. An initial session includes assessment of presenting concerns and recommendations for further counseling at the PCC or referral to a community resource. The PCC is staffed by Licensed Clinical Psychologists, Licensed Marriage and Family Therapists, and supervised graduate and post-graduate interns. Fees for the Center services are covered by the health fee paid at the time of enrollment. Although the demand for counseling services is considerable, appointments are usually made within 2 weeks of the student’s initial contact. In case of emergency, students are seen...
with minimum delay and can be seen on a walk-in basis. To schedule an assessment, call (909) 537-5040. Open Monday through Friday, call for hours.

Services to Students with Disabilities (SSD)
University Hall, Room 183
(909) 537-5238, TTY (909) 537-7230
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 or 537-7777 for police business

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 campus-oriented 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 or 537-7777 for all other requests.

A complete "Campus Safety Report" is available through the home university web page www.csusb.edu, in a pamphlet from University Police or from Human Resources. Additional information is available on the university web page under University Police.

Student Affairs
University Hall, Room 231
(909) 537-5185 studentaffairs.csusb.edu

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 dis-
crimination-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, 7:00 a.m.-8:00 p.m. and Friday, 7:00 a.m.-6:00 p.m.) and during Summer Session (Monday through Thursday, 7:00 a.m.-6:00 p.m., closed Fridays). Ages: three years (toilet trained) to 12 years. Additional information regarding fees and availability may be obtained from the Children's Center.
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. Complete information is available at www.csumentor.edu.

Electronic versions of the CSU undergraduate and graduate applications are accessible on the web at 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, EOP, and financial aid.

Applying online via www.csumentor.edu is expected unless electronic submission is impossible. An acknowledgement will be sent when online applications have been submitted. Application in “hard copy” form may be obtained online via www.csumentor.edu as a portable data format (PDF). Application forms (in PDF) may also be downloaded from www.calstate.edu/sas/publications. Individuals using paper applications to apply for admission to Cal State San Bernardino should mail or bring the completed application to the campus Office of Admissions and Student Recruitment.

Cal State San Bernardino advises prospective students they must supply complete and accurate information on the application for admission, residency questionnaire and financial aid forms. Applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to submit 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 and pay the $55 application fee when they seek admission again to an open term. Current admission requirements and applicable deadlines must be met.

Undergraduate Application
www.csumentor.edu

Prospective students, applying for part-time or full-time undergraduate programs of study, must submit a completed undergraduate application. The $55 nonrefundable application fee should be in the form of a check or money order payable to: The California State University, or by credit card, if submitting the online application, and may not be transferred or used to apply to another term. An alternate major may be indicated on the application. 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.

CSU Application Filing Periods

Not all campuses/programs are open for admission to every term.

<table>
<thead>
<tr>
<th>Terms in 2013-14</th>
<th>Applications first accepted</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter quarter 2014</td>
<td>June 1, 2013</td>
<td>June 30, 2013</td>
</tr>
</tbody>
</table>

Students interested in attending only the summer quarter at CSUSB should visit admissions.csusb.edu around April 1 for information.

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 application information. Similar information is available at www.csumentor.edu/filing_status and admissions.csusb.edu.

Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants 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 which they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus’ specified supplementary admission criteria if applying to an impacted program or campus.

The CSU will announce those campuses or programs that are impacted during the fall filing period. Detailed information on campus and programs impactation will be available at the following websites:

- www.csumentor.edu
- www.calstate.edu/impactioninfo.shtml
- www.calstate.edu/sas/impaction-campus-info.shtml

Campuses will communicate supplementary admission criteria for all impacted programs to high schools and community colleges in their service area and will disseminate this information to the public through appropriate media. This information will also be published at the CSU campus individual website and made available online at www.calstate.edu.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admission consideration.

Each campus with impacted programs or admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on verification of AA-T or AS-T degree, the overall transfer grade point average (GPA), completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible, but no later than November or December of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants is made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at www.calstate.edu/impactioninfo.shtml.

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.

CSU San Bernardino is impacted for first-time freshman applicants and expects to utilize supplemental admission criteria for admission of first-time freshman applicants to the campus. All first-time freshman applicants must have applied during the initial application-filing period (October 1 through November 30 for fall) to be considered for admission. All CSU subject matter (a-g) requirements must be complete, in progress, or planned with a grade of "C" or better prior to high school graduation and may not be completed during the summer term following high school graduation. CSU eligible first-time freshman applicants that graduate from high schools in CSUSB’s defined local area will be admitted based on CSU systemwide eligibility criteria. CSU eligible first-time freshman applicants who graduate or have graduated from high schools outside of CSUSB’s defined local area will be “rank ordered” by eligibility index and admission offers will be made in descending order of eligibility index totals until the freshman class target is met.

CSU San Bernardino is also impacted for upper-division transfer students and expects to utilize supplemental criteria for all upper-division transfer admission. All upper-division transfer applicants must have applied during the initial filing period (October 1 through No-
vember 30 for fall) to be considered for admission. Applicants must be in good standing at the last college or university attended (eligible to re-enroll), have earned 60 or more transferable semester units (90 or more quarter units), and completed all lower division General Education courses in written communication, oral communication, critical thinking, and mathematics with a grade of "C" or better in each course. Outside-the-local area applicants will be selected for admission based on a GPA ranking in descending order until the transfer enrollment target is met.

**Application Acknowledgment**

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates applicants meet CSU admission requirements, and in the case of admission impaction, 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.

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 interest of the university.

**Undergraduate Admission Requirements**

**Freshman Requirements.** Generally, first time freshmen applicants will qualify for regular admission if they

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination,

2. Have a qualifying minimum eligibility index (see below), and

3. Have completed with grades of "C" or better each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see “Subject Requirements”).

**Eligibility Index.** The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. The calculation of GPA includes grades earned in all college preparatory “a-g” subject requirements taken after the ninth grade year, and bonus points for approved honors courses.

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

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding the total score on the mathematics and critical reading scores of the SAT. Students who took the ACT, multiply the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2900 using the SAT or 694 using the ACT. The Eligibility Index Table on Page 579 illustrates several combinations of required test scores and averages.

The university has no plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index for admission to terms during the 2012-2014 college years.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes, need a minimum index of 3502 (SAT) 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.

An applicant with a grade point average of 3.00 or above (3.61 for nonresidents) is not required to submit test scores at campuses that are not impacted. However, all applicants for admission are urged to take the SAT or ACT and provide the scores of such tests to each CSU to which they seek admission. Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. CSUSB is an impacted campus and as such, does require SAT or ACT scores of all applicants for freshman admission.

**Conditional/Provisional Admission for First-Time Freshmen**

CSUSB may offer students early, provisional admission based on their academic preparation through the junior year of high school and courses planned for the senior year. The campus will monitor the senior year of study to ensure that conditionally admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to verify that all course work has been satisfactorily completed (with a grade of "C" or better). Official high school transcripts must be received prior to the deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student’s first term of CSU enrollment. A campus may rescind admission decisions, cancel financial aid awards, withdraw housing contracts, and cancel any university registration for any student who fails to submit documents required for admission by the posted campus deadline and/or is found to be ineligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional/conditional) admission when the university verifies they have graduated and received a diploma from high school, have a qualifying minimum eligibility index, have completed the comprehensive pattern of college preparatory “a-g” subjects, and, if applying to an impacted program or campus, have met all 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 CSU requires 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 equal to 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 (completed where English is the primary language of instruction).
- 3 years of mathematics (algebra, geometry, and intermediate algebra).
- 2 years of laboratory science (1 biological and 1 physical, both must include laboratory instruction).
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence).
- 1 year of a year-long course in visual and performing arts or other courses approved and included on the UC/CSU "a-g" list.
- 1 year of electives chosen from the subject areas listed above or approved college preparatory elective courses, included on the UC/CSU "a-g" list.

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

Waiver of High School Language Other Than English Subject Requirement

The high school language other than English subject requirement may be waived for applicants who demonstrate competence in any other language 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.

Test Requirements

Freshmen and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit applicable test scores, unless exempt (see "Eligibility Index" on Page 579) from either the ACT or the SAT of the College Board. Persons who apply to an impacted program will be required to submit test scores regardless of GPA and should take the test no later than November or December. Test scores also are used for advising and course placement. Registration forms and dates for SAT or ACT are available from school or college counselors or from a campus Testing Office or students may write to or contact:

The College Board (SAT)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200
(609) 771-7888 www.collegeboard.org

or

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

Transfer Policies of CSU Campuses

Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency recognized by the United States Department of Education is accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

The CSU General Education-Breadth (GE-Breadth) program allows California Community College (CCC) transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer. Up to 39 of the 48 GE-Breadth units required can be transferred from and certified by a California community college. "Certification" is the official notification from a California community college that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth certification course list for particular community colleges can be accessed at www.assist.org.

CSU campuses may enter course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California community colleges, and other institutions. Established CSU and CCC articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution which does not offer bachelor's degrees or their equivalents, e.g., community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90-semester (135-quarter) units may be transferred into the university from all sources.

Transfer Requirements

Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for admission. 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.

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying (see “Freshman Requirements” section); or

2. Were eligible as a freshman at the time of high school graduation except for missing college preparatory subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subject requirements with a 2.0 or better GPA.

Applicants who graduated from high school prior to 1988 should contact the admission office to inquire about alternative admission programs. (Due to increased enrollment demands, many CSU campuses do not admit lower-division transfer applicants.)

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, e.g., SAT subject tests.

Please consult with the CSU campus admission office, to which you are applying for further information about alternative ways to satisfy the subject requirements. (Due to increased enrollment demands, many CSU campuses do not admit lower-division transfer applicants.)
Upper-Division Transfer Requirements. Generally, applicants will qualify for admission as an upper-division transfer student if they meet all of the following requirements:

1. They have a grade point average of at least 2.0 (C) or higher in all transferable units attempted; and
2. They are in good standing at the last college or university attended; and they have completed at least 60 transferable units (90 quarter) of college coursework with a grade point average of 2.0 or higher and a grade of C or higher in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking and quantitative reasoning, e.g. mathematics. The 60 semester (90 quarter) units must include at least 30 semester (45 quarter) units of courses, which meet the CSU general education requirements including all of the general education requirements in communication in the English language (both oral and written) and critical thinking 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.

Associate Degrees for Transfer (AA-T or AS-T) established by the Student Transfer Achievement Reform (STAR) Act (SB 1440). The Associate in Arts (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community College (CCC) are designed to provide clear pathways to corresponding CSU degree majors for CCC transfer applicants earning these degrees.

California Community College students who earn a transfer associate (AA-T or AS-T) degree are guaranteed admission with junior standing to a CSU and given priority admission over other transfer applicants when applying to a local CSU campus, or non-impaired CSU program. AA-T or AS-T admission applicants are given priority consideration to an impacted campus program or to campuses/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester units.

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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:

1. Possesses a high school diploma (or has established equivalency through either the Tests of General Educational Development or 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.

Due to enrollment pressures this option is not available at CSUSB. Adult students are encouraged to meet all standards required for regular admission.

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. temporary 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." Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission.

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 beginning 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 foreign students, being admitted to major to or to those campuses with limited openings.

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

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. Foreign students are also 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 or visit admissions.csusb.edu/international/e_costs_housing.shtml. 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 Center.

Insurance Requirement. Effective August 1, 1995, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of receiving an I-20 or DS-2019 form and for registration and continued enrollment in the California State University. Such insurance must be in amounts as specified by the United States Information Agency (USA) and NAIFA: 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 Center.

English Language 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 complete the Test of English as Foreign Language (TOEFL). The minimum TOEFL score for undergraduate applicants is 500 paper-based test or 61 internet-based test. Some majors may require higher scores. Some campuses may also use alternative methods for assessing English fluency. Each campus will post the tests it accepts on its website and will notify students after they apply about the tests it accepts and when to submit scores.

CSU minimum TOEFL standards are:

<table>
<thead>
<tr>
<th>Program</th>
<th>Internet</th>
<th>Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>61</td>
<td>500</td>
</tr>
<tr>
<td>Graduate</td>
<td>80</td>
<td>550</td>
</tr>
</tbody>
</table>
Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residency 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 48 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 365.

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 pursue work toward credentials should also make application to the College of Education.

Matriculation Policy

An undergraduate student is considered matriculated only if they register, pay fees and do not drop all of their courses prior to the term in which they plan to register. 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 earned a baccalaureate degree. Enrollment through Open University, Extended Learning, or a Visitor program does not constitute regular enrollment.

Returning Students

Undergraduate 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 the College of Extended Learning during fall, winter or spring quarters does not constitute enrollment for this purpose. (See Leave of Absence, Page 50.)

Returning students who must reapply must be fully eligible as an upper-division transfer student before they will be admitted to CSUSB again.

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:

<table>
<thead>
<tr>
<th>Petition for:</th>
<th>Petition on file on or before:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>July 1</td>
</tr>
</tbody>
</table>

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 more than six semester units (nine quarter units) in education courses taken at a community college may be applied toward the baccalaureate degree or the professional preparation requirements of a teacher education basic credential program.

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 Program Advising Worksheet for Students (PAWS), indicating requirements which remain unfulfilled. Once issued to a student, the PAWS 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 with regional accreditation will be accepted toward the satisfaction of degree requirements at the university within limitations of residency and major requirements, community college transfer maximums, and course applicability.

Concurrent Enrollment. Once a student has matriculated at this university, transfer courses will only be accepted for credit if the courses have prior approval on the Concurrent Enrollment for Equivalent Transfer Course(s) form. For complete policy, see Concurrent Enrollment on Page 47.

Students attending CSUSB on I-20 visas are not eligible for concurrent enrollment at community colleges. They may, however, participate in the CSU Intrasystem Concurrent program or the UCR/CSUSB Cross Registration Program but must be concurrently enrolled in (and complete) at least 12 units at CSUSB and may only enroll in upper-division courses that are not offered at CSUSB. For more information, see Intrasystem and Intersystem Enrollment Programs or UCR/CSUSB Cross Registration Program.

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:

1. 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. The equivalence to CSUSB courses be determined by the appropriate academic department;
3. 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 residency 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 exam. These units of credit will apply 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 Admissions and Student Recruitment. Questions regarding the acceptance of Advanced Placement exams should be directed to the Office of Records, Registration and Evaluations.

Credit by International Baccalaureate

Students who have successfully completed International Baccalaureate exams at the Higher Level (HL) with a score of 4, 5, 6, or 7 may be granted up to nine quarter units of credit for each successful exam. These units of credit will apply towards graduation, advanced placement in the university’s sequence of courses, and credit for curriculum requirements. No credit will be awarded for Subsidiary Level (SL) exams. Test results must be presented to the Office of Admissions and Student Recruitment. Questions regarding the acceptance of International Baccalaureate exams should be directed to the Office of Records, Registration and Evaluations.

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 applied toward a master's degree program. No credit so earned may be used to satisfy the university residency requirement.

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

CSUSB accepts only those credits for transfer which are acceptable toward a baccalaureate or master degree or credential at the institution offering the courses.

Credit for Non-Collegiate Instruction

CSUSB grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units awarded are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

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 to fulfill admission requirements or for use toward graduation. 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 the Member 4 copy of a DD-214, DD-295 or AARTS (Army/American Council on Education Registry Transcript System) transcript. 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. Advanced placement credit and international baccalaureate credit are excluded from the limit.

High School-University Program

Junior and senior high school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates as space is available at the university. Such admission is only for a given specific program and does not constitute a right to continued enrollment. For more information, contact the Office of Admissions & Student Recruitment at (909) 537-5188, or visit admissions.csusb.edu

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

California State University, San Bernardino offers a program which allows California residents, sixty years of age or older, to enroll in regular session courses without payment of certain specified fees. All regular admission requirements must be met. The program is required to adhere to the following standards: 1) enrollment shall be limited to persons who are California residents as defined by the Education Code, are 60 years of age or older, and are eligible for admission to the university, and 2) persons enrolling in the program will be able to register on the last day of 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. Contact Janet Brooks, Records, Registration and Evaluations Office, (909) 537-7370, jbrooks@csusb.edu.

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 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. Additional information about these programs is available from the Office of Records, Registration and Evaluations.

CSU Intrasystem Concurrent Enrollment. Matriculated students in good standing may enroll at both their home campus and a host CSU campus during the same term. Students attending CSUSB on I-20 visas may participate in the Intrasystem Concurrent Enrollment program, but must be concurrently enrolled (and complete) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB. Credit earned at the host campus is reported to the home campus to be included on the student’s transcript at the home campus.

CSU Intrasystem 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 at the student’s request to the home campus to be included on the student’s transcript at the home campus. Students attending CSUSB on I-20 visas are not eligible for this program.

Intersystem Cross Enrollment. Matriculated CSU, UC or community college students may enroll on a "space available" basis 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. Students attending CSUSB on I-20 visas are not eligible to attend the community college. They may participate in this program and attend a CSU or UC, but must be concurrently enrolled (and complete)
All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment. 

**Measles and Rubella:** All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment.

**Hepatitis B:** All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. 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 contracting the disease and indicating whether or not the student has chosen to receive the vaccination.

**Meningococcal Notification.** Each incoming freshman who will reside in on-campus housing will be required to return a form indicating they have received information about meningococcal disease and the availability of the vaccine to prevent the spread of the disease and whether or not he or she has chosen to receive the vaccination.

These are not admission requirements, but are required of students as conditions of enrollment in CSU.

For more information, including costs or exclusions, contact the Student Health Center.

**PLEASE NOTE:** Students may be exempt from these immunization requirements if they have graduated from a California Public School during or after 2005. 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.

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 fee purposes is made by the university after review of a residency 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.

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. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent for tax purposes, 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 2012-2014

Students are required to pay tuition in accordance with the instructions provided in the quarterly *Class Schedule* and via My Coyote Self Service. Non-resident students shall pay tuition in addition to other university fees.

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fee, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

Cash, checks and ATM debit cards will be accepted at the Bursar. Electronic checks, MasterCard, Discover, and American Express will be accepted through a third party vendor. A service fee will be assessed for credit card payments. Credit cards are no longer accepted on campus, except in the bookstore, commons. Credit card payments for the Meal Plan only will be accepted at the Bursar Office. See the *Class Schedule* for details. The application fee, identification card fee, enrollment deposit, SOAR fees and late charge fees are nonrefundable.

The following reflects applicable system wide fees for quarter campuses. **These rates are subject to change.**

#### All students

- **Application fee** (nonrefundable, payable by check or money order at time of applying) ............................................................. $55.00
- **Health Facilities fee** ............................................................ 13.00

#### Basic Tuition Fees 2012/13

| Undergraduate Tuition Fee |  
|-------------------------------|---
| 0-6 units | 1,058.00  
| 6.1 or more units | 1,824.00  
| **Credential Tuition Fee** |  
| 0-6 units | 1,228.00  
| 6.1 or more units | 2,116.00  
| **Graduate/Postbaccalaureate Tuition Fee** |  
| 0-6 units | 1,302.00  
| 6.1 or more units | 2,246.00  
| **Graduate Business Professional Fee, per unit** | 169.00  
| **Supplemental Fee: MPA online courses per unit fee** | 90.00  
| **Doctoral Candidates Tuition Fee** |  
| All students | 3,706.00  
| **Western University Exchange Program** |  
| 0-6 units | 1,587.00  
| 6.1 or more units | 2,736.00  
| **Associated Students, Inc. fee** |  
| Fall | 43.00  
| Winter | 40.00  
| Spring | 40.00  
| Summer | 21.00  
| **Coyote One Card** |  
| Replacement | 5.00  
| **Student union fee** |  
| Fall | 126.50  
| Winter | 122.50  
| Spring | 122.50  
| Summer | 95.00  
| **Health Center service fee** |  
| Fall | 73.50  
| Summer only | 55.50  
| **Student Success fee** | 54.00  

**Instructionally related activities fee:**

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

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**Fall** 50.00  
**Winter** 48.00  
**Spring** 48.00  
**Summer** 18.00  

**Nonresidents** (U.S. and foreign)

| Tuition (in addition to other fees charged all students): per unit | 248.00  
| one-half unit | 124.00  

**Residence halls** (estimated annual costs)

| Serrano Village |  
| Double Residence Hall | $4,437 + mandatory meal plan $2,553.00= $6,990.00  
| Single Residence Hall | $5,535 + mandatory meal plan $2,553.00= 8,088.00  
| Super Single Residence Hall | $6,012 + mandatory meal plan $2,553.00= 8,565.00  
| Arrowhead Village |  
| Single B/C apartment, no meal plan required | 6,210.00  
| Single A/D apartment, no meal plan required | 6,489.00  
| Studio apartment, no meal plan required | 7,497.00  
| Super Single, no meal plan required | 7,641.00  

**University Village**

|  
| 4 bedroom/2 bath, no meal plan required | 6,588.00  
| 2 bedroom/1 bath, no meal plan required | 7,398.00  
| 4 bedroom/4 bath, no meal plan required | 7,542.00  

**Special fees**

| Administrative fee | 22.00  
| Credential fee | 60.00  
| Various laboratory, activity, and art studio fees | consult the *Class Schedule* for current fees  
| Late registration | 25.00  
| Enrollment cancellation fee | 25.00  
| Failure to meet required appointment or time limit | 5.00  
| Grad check/Diploma fee (per major) | 25.00  
| Grad check/Diploma, late, first filing (per major) | 45.00  
| Refiling (per major) | 20.00  
| Late refiling (per major) | 40.00  
| Diploma replacement fee | 25.00  
| Enrollment confirmation deposit (non-refundable) | 100.00  
| Enrollment verification (each) | 4.00  
| Emergency loan processing fee | 25.00  
| Emergency loan late fee | 25.00  
| Graduation certificates | 35.00  
| Commencement fee | 25.00  
| Certificate fee | 25.00  
| Change of major/Graduate change of program | 6.00  
| SOAR Mandatory Fee (non refundable) | 65.00  
| SOAR Student Services Fee (non refundable) | 85.00  
| Administration Fee | 25.00  
| Lost Key Fee | 25.00  
| Graduate Orientation Fee | 49.00  

**Parking fees**

|  
| Quarter: Four-wheel vehicle | 102.00  
| Two-wheel vehicle (includes mopeds) | 69.00  
| Arrowhead/Serrano Village parking | 102.00  
| University Village parking | 102.00  
| Check returned for any cause or credit card declined | 25-35.00  
| Lost document replacement | 2.00  
| Transcript of academic record |  
| Single transcript | 6.00  
| Additional transcripts prepared at the same time | 3.00  
| Expedited transcript request (each) | 8.00  
| Faxing unofficial transcript | 10.00  
| Library fees |  
| schedule posted at Library circulation desk |  
| Master’s degree thesis | contact Office of Graduate Studies |
Disabled Student Quarterly Parking Fee Waiver

Disabled students receiving financial aid may qualify for waiver of the campus parking fee.

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

A. 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.

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

Refund of Mandatory Fees, Including Nonresident Tuition

Office of Accounting
(909) 537-5153

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide 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 are paid in order to enroll in state-supported academic programs at the California State University to provide financing for various student services programs not covered by state funding.

Fee Waivers and Exemptions

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

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 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 spouse/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 certain age and income restrictions;

Section 68120–Qualifying 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 active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships); 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 student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the 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 Financial Aid for further information and/or an eligibility determination.

Section 68122 - Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus.

Section 68130.5 Students who are not residents of California are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus. In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are nonimmigrant aliens within the meaning of 8 U.S.C. 1101(a)(15), except as provided by Section 68122 above.

Disabled Student Quarterly Parking Fee Waiver

Disabled students receiving financial aid may qualify for waiver of the campus parking fee.

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

A. 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.

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

Refund of Mandatory Fees, Including Nonresident Tuition

Office of Accounting
(909) 537-5153

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide 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, special session, and extended education programs or courses at the California State University are governed by a separate policy established by the University, available at the College of Extended Learning.

In order to receive a full refund of mandatory fees, less an administrative charge established by the campus, 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 Schedule of Classes.

For state-supported semesters, quarters, and non-standard terms or courses of four (4) 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. For state-supported non-standard terms or courses of less than four (4) weeks, no refunds of 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.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

• The fees were assessed or collected in error;

• The course for which the 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 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.

**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 and processing fees 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. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the campus business office. The business office, or another office on campus to which the business office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

For more information or questions, contact Director of Accounting Services, Deletta Anderson, at (909) 537-5153 or dranders@csusb.edu.

**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.

**Parking Services**

[Insert contact information for 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 unlocks, 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.
ACADEMIC REGULATIONS

All students who register at California State University, San Bernardino in resident study must first be admitted to the university by the Office of Admissions and Student Recruitment. No student may attend classes 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 through My Coyote Self Service.

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:

<table>
<thead>
<tr>
<th>Status</th>
<th>Units earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower-division</td>
<td></td>
</tr>
<tr>
<td>Freshman</td>
<td>0-44.9 quarter units</td>
</tr>
<tr>
<td>Sophomore</td>
<td>45-89.9 quarter units</td>
</tr>
<tr>
<td>Upper-division</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>90-134.9 quarter units</td>
</tr>
<tr>
<td>Senior</td>
<td>135 quarter units or more</td>
</tr>
<tr>
<td>Postbaccalaurete</td>
<td>Holding a baccalaureate degree from an accredited college and not pursuing a graduate degree program (2nd B.A./certificate)</td>
</tr>
<tr>
<td>Unclassified</td>
<td>No degree or credential objective, nor pursuing a 2nd B.A. or B.S. or certificate</td>
</tr>
<tr>
<td>Conditionally classified</td>
<td>Completing prerequisite requirements for the credential</td>
</tr>
<tr>
<td>Classified</td>
<td>Pursuing a credential</td>
</tr>
<tr>
<td>Graduate</td>
<td>Postbaccalaureate student pursuing a graduate degree</td>
</tr>
<tr>
<td>Conditionally classified</td>
<td>Completing prerequisite requirements for graduate degree</td>
</tr>
<tr>
<td>Classified</td>
<td>Admitted to the degree program</td>
</tr>
</tbody>
</table>

Academic Information Sessions

www-ugs.csusb.edu/advising

All new undergraduate 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, PAWS (Program Advising Worksheet for Students), 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. Bring an updated copy of the Program Advising Worksheet for Students (PAWS) to the advising appointment.
3. Develop a tentative course schedule using the University Bulletin, Class Schedule and PAWS.
4. Gather all relevant decision-making information such as work schedules or other time commitments.
5. Prepare a list of questions or topics to discuss with the advisor. This is a good opportunity to discuss educational and career goals.

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.

Academic Probation

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

Academic Course Load

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

Unit Overloads. A student may carry 20 or more units only upon petition to his or her college dean. 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 once "Late Registration" begins, if classes remain open and the overload is approved. Unit limits in the summer are different.

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 first-year Composition and General Education mathematics courses, all new students who are not exempt (see Page 67), must take the English Placement Test (EPT) and the Entry Level Mathematics (ELM) tests before registering for their first quarter of attendance. Students are also required to complete the English Department's Directed Self-Placement (DSP) self-assessment in order to select the appropriate English composition course. Students may choose to enroll in any of the four first-year Composition options (ENG 102A-103A-104A, ENG 102B-103B-104B, ENG 105-106, or ENG 107). They must remain enrolled in their chosen option until their General Education requirement has been completed (ENG 104, 106, or 107). All new students who have not completed the General Education mathematics requirement (or equivalent courses) must enroll in a General Education mathematics course (MATH 110, 111, 120, 192, or 211). They must remain enrolled in these courses until the requirement has been completed. Students who do not qualify for enrollment in those courses must enroll in appropriate developmental courses (MATH 75, 80 or 90, depending on ELM scores) until they are qualified to enroll in the General Education courses. Students must
complete the first-year composition course and any required developmental work in mathematics 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 Advising and 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.

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, International Baccalaureate Program, or the subjects tested by the College Level Examination Programs described on Page 40.

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 53). 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, school, 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 51 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 matriculated through regular enrollment at the university in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the college or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.

5. A maximum of 40 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the associate provost for academic programs.
7. Credit by examination may not be used to fulfill the minimum residency 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 371.

**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. Note that students attending CSUSB on I-20 visas are not eligible for concurrent enrollment at community colleges.

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 the 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 41.

**ROTC Programs**

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, Temporary Offices, (909) 537-5440.

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, FO-124 and 125, (909) 537-5533.
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 priority 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 using My Coyote Self Service.

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. All other registration procedures apply, including the use of Add Slips for courses that are closed or enrollment after the second week of class.

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 for students not already enrolled by the late registration deadline.

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 enrolled student to that of auditor with the approval of the class 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.

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 (five business days) of the quarter via My Coyote Self Service. 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 and Evaluations 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 Associate Vice President of Undergraduate Studies for undergraduates or the Dean of Graduate Studies for postbaccalaureate and graduate students and will require documentation from the instructor which will show that the student attended the class and earned a passing grade.

Drops and Withdrawals

Beginning Fall quarter 2009, undergraduate students may not exceed 28 quarter units of withdrawals (grade of "W"). Withdrawals completed prior to Fall 2009 are not included in this total. This limit applies only to courses taken at CSUSB, including courses taken through Open University, the College of Extended Learning and special session. The policy for all undergraduate students will be available at www.ugs.csusb.edu/advising/. For credential, post-baccalaureate, and graduate students, the policy can be found in the Graduate Programs section of the current Bulletin under “Retroactive Withdrawals.”

Census Date. Census Date (also known as Census Day) refers to two very important deadlines:
1. Last day a student can add a class (by permit since it is the third week of classes)
2. Last day a student can drop a class without a record on the student's transcript.

Specific Census Dates for each term are listed on Page 4 and in the Class Schedule. Census Date falls on the last day of the third week of the Fall, Winter, Spring, and Summer (Regular) Session 1. Census Date for Summer Session 6W1 and Summer Session 6W2 falls on the sixth day in either session.

Dropping Classes

A drop is defined as a withdrawal through Census Date. Drops do not produce a record on the student's transcript.

Students should read this section carefully to understand fully when and for what reasons they may drop a course themselves. Students transferring from other institutions should note that the last day to drop a class without a record of enrollment (i.e., Census Date) takes place much earlier at CSUSB than they may have been accustomed to at other institutions.

It is the students’ responsibility to verify their schedules prior to Census Date. Grades will be assigned for every course in which they are officially registered. It is also the students’ responsibility to drop by Census Date any class which they do not plan to attend and complete. While an instructor may drop students for non-attendance during the first three weeks of classes (see “Administrative Drop Policy”), students should not assume this will be done.
Dropping classes through Census Date. 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 quarter without contacting the faculty member or making special arrangements. Students in on-line or hybrid classes who fail to make contact with the instructor either in person or electronically (via e-mail or Blackboard) within the first four days of the start of the quarter may also be dropped during the first three weeks of the quarter.

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 may 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 should not assume they are automatically disenrolled. Instead, they are strongly encouraged to check their MyCoyote to confirm course enrollment and drops every quarter.

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 Student Accounts Office at 909-537-5162.

Withdrawing from Classes

Withdrawal from classes after Census Date. A course dropped after Census Date is defined as a withdrawal and a grade of "W" will be posted to the student’s record if the withdrawal is approved. Beginning Fall quarter 2009, undergraduate students may withdraw from no more than 28 quarter units during their entire undergraduate academic career at CSUSB.

Withdrawals after Census Date and through the end of the eighth week of the quarter are permitted only for serious and compelling reasons. See the Summer Class Schedule for withdrawal dates during the summer terms. The student will be required to submit a petition with documentation to support the request to withdraw from the course(s). Poor performance or poor attendance in the course is not an acceptable reason to withdraw from a course during this period.

Petitions to withdraw after Census Date are available in the offices of the five Colleges for declared majors and in Advising and Academic Services (UH-380) for undeclared students. Withdrawals during this period will require written documentation along with the signature of the instructor, the department chair or school director of the class, and the Dean of the College of the student’s major. Courses officially withdrawn during this time period will show a grade notation of "W" (withdrawn) on the student’s transcript for the dropped course(s). Students receiving a "W" are still subject to fees for the courses. In certain circumstances, withdrawals after Census Date may qualify for an exemption to the 28 unit maximum. Such requests must meet the same standard and be processed in the same manner as described in the next section of this policy.

Withdrawal from classes in weeks nine through the last day of instruction shall not be permitted except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student’s control and the assignment of an Incomplete is not practicable. Withdrawals of this sort may involve total withdrawal from the campus or may involve one or more courses. Before submitting a petition to withdraw from class, students are strongly advised to discuss with their instructor(s) the possibility of getting an Incomplete. In cases in which sufficient work has been completed to permit an evaluation to be made, a grade and credit or an Incomplete may be assigned to allow the student to retain credit for work which would otherwise be lost due to complete withdrawal.

Requests for permission to withdraw in weeks nine through the last day of instruction must be made by petition with documentation to support the request to withdraw. These requests will be processed by the Director of Advising and Academic Services, UH-380. If approved, such withdrawals will not count against the 28 units students are allowed to withdraw.

Excessive or Unauthorized Withdrawal. Students who do not officially withdraw or who exceed the 28 unit maximum will receive a grade notation of "WU" (withdrawal unauthorized) in the course, which for purposes of grade point averages 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 not officially dropped, and the need to petition for readmission before being permitted to enroll in another academic term.

Term Withdrawal from All Classes

Students who find it necessary to withdraw from all classes after enrolling for any academic term are required to follow the University’s official Term Withdrawal procedures outlined in the Class Schedule. Beginning ten days prior to the start of the quarter, these withdrawals must be processed in person in the Records, Registration, and Evaluations Office, UH-171. A picture ID is required to complete the in-person withdrawal. Prior to this time, the withdrawals can be processed by the student through MyCoyote. Call 909-537-5200, option 5 for more information. Failure to follow formal University procedures may result in obligation to pay fees, as well as the assignment of failing grades in all courses, and the need to petition for readmission before being permitted to enroll in another academic term.

Students who receive financial aid funds are strongly encouraged to consult with the Financial Aid Office prior to withdrawing from the University regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdrew from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Term Withdrawal through Census Date. During the Open Enrollment and Schedule Adjustment period (see Class Schedule for specific dates) students may withdraw from the university by following the registration instructions detailed in the Class Schedule during the first three weeks of the Fall, Winter, or Spring quarters (i.e. from the first day of instruction through Census Date) and will have no record of enrollment listed on their permanent record. A refund will not be granted if the withdrawal is beyond the refund deadline date. See the Class Schedule for withdrawal dates during the summer terms. The student will be required to submit a petition with documentation to support the request to withdraw from all course(s). Poor performance or poor attendance in the course is not an acceptable reason to withdraw during this period.
Petitions to withdraw after Census Date are available in the offices of the five Colleges for declared majors and in Advising and Academic Services, UH-380, for undeclared students. Withdrawals during this period will require written documentation along with the signature of the instructor, the department chair or school director of the class, and the Dean of the College of the student’s major. All courses officially withdrawn during this time period will show a grade notation of “W” (withdrawn) on the student’s transcript for the dropped course(s). Students receiving a “W” are still subject to fees for the courses.

In certain circumstances, withdrawals after Census Date may qualify for an exemption to the 28 unit maximum. Such requests must meet the same standard and be processed in the same manner as described in the next section of this policy.

Withdrawal from all classes in weeks nine through the last day of instruction shall not be permitted except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student’s control and the assignment of an Incomplete is not practicable.

Requests for permission to withdraw in weeks nine through the last day of instruction must be made by petition with documentation to support the request to withdraw. These requests will be processed by the Director of Advising and Academic Services. If approved, such withdrawals will not count against the 28 units students are allowed to withdraw.

Retroactive Term Withdrawal. Requests for retroactive term withdrawals shall be permitted for serious and compelling reasons, such as accident or serious illness, where the cause of withdrawal was due to circumstances clearly beyond the student’s control and an Incomplete was not assigned. Extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Documentation is required. Poor performance or poor attendance in the course is not an acceptable reason to withdraw after the term. Employment-related reasons are also unacceptable. Lack of awareness of the withdrawal procedure is not an extenuating circumstance. All courses must be withdrawn and will be noted with a “W” on the permanent record. If approved, such withdrawals will not count against the 28 units from which students are allowed to withdraw.

Forms for Retroactive Term Withdrawal by undergraduates are available only in the office of the Director of Advising and Academic Services in UH-380. Partial withdrawal of grades during a term is not permissible unless special circumstances exist and the Dean of the student’s major grants approval. Requests for Retroactive Term Withdrawal by unclassified post baccalaureate students, credential candidates and graduate students must be made in writing to the Dean of Graduate Studies, CH-123.

Leave of Absence

Degree seeking undergraduate 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 International Center, 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 Evaluations (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. Official transcripts must be submitted once coursework is completed.

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. If a student was on an approved educational leave, official transcripts are required.

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 My Coyote Self Service.

Grade/Academic Grievance Procedures
Advising and Academic Services, UH-380
www.ugs.csusb.edu/advising

Information concerning grade grievances and other academic grievances may be obtained from Advising and Academic Services, University Hall, Room 380, (909) 537-5034 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 studentaffairs.csusb.edu/policies.html.

Grades
The grade symbols used at the university are as follows:

<table>
<thead>
<tr>
<th>Grade symbol</th>
<th>Performance level</th>
<th>Grade points per quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Satisfactory</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>Passing</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td></td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0.0</td>
</tr>
<tr>
<td>WU</td>
<td>Withdrawal Unapproved</td>
<td>0.0</td>
</tr>
<tr>
<td>U</td>
<td>Unauthorized Incomplete</td>
<td>0.0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete Authorized</td>
<td>0.0</td>
</tr>
<tr>
<td>IC</td>
<td>Incomplete Charged</td>
<td>0.0</td>
</tr>
<tr>
<td>RP</td>
<td>Report in Progress</td>
<td>0.0</td>
</tr>
<tr>
<td>SP</td>
<td>Satisfactory Progress</td>
<td>0.0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>0.0</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>0.0</td>
</tr>
<tr>
<td>CBE</td>
<td>Credit by Exam</td>
<td>0.0</td>
</tr>
<tr>
<td>CBX</td>
<td>Credit By Exam (Remedial Course)</td>
<td>0.0</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Expanded Grade Symbol Definitions
A (Excellent): Meeting course requirements with a superior level of performance. A is recognized to be an honors evaluation.
B (Good): Meeting course requirements with a high level of performance.
C (Satisfactory): Meeting course requirements with an acceptable performance.
D (Passing): Meeting course requirements with minimally adequate performance.
F (Failing): Inadequate performance or not meeting course requirements.
CR (Credit): A satisfactory or better level of performance, equivalent to the grade of "C" (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of "B" (3.0) or better.
NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of "C-" (1.7) or less. For graduate courses, equivalent to a grade of less than "B-" (2.7). 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. Awards units earned toward degree. It is not included in the calculation of grade point averages.
CBX (Credit by Exam/Remediation): This symbol indicates that a student has successfully passed a remedial course through an examination. Does not award units earned toward a degree. It is not included in the calculation of grade point average.
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 may not re-enroll in a course for which he or she has received an "I" until that "I" has been converted to a grade other than "I", e.g., A-F, IC, or NC.
An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned or before graduation unless the instructor assigned an earlier completion date on the Incomplete Form. 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, unless a specific grade was assigned on the Incomplete form.

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 grade check for the term in which the outstanding requirements are fulfilled. An Incomplete in a course not required for the degree must have a final grade assigned at the time of graduation, or the Incomplete will convert to an "IC" (or an "NC" if applicable). At the time of graduation, no Incompletes may remain on a student's record.

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. For withdrawal limits, see the class schedule or www.ugs.csusb.edu/advising. Students who have withdrawn from the maximum 28 units allowed will be assigned a WU grade for any subsequent withdrawals.

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. A grade of WU will also be assigned to students who have withdrawn from the maximum of 28 allowed units. 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. For graduate level courses, credit is awarded for grades equivalent to a grade of B (3.0) or better. No credit is awarded for grades equivalent to C- or less. For graduate level courses, no credit is awarded for grades equivalent to B- 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 Conduct Code (see Page 577) for other regulations governing expulsion, suspension, and probation. This policy is in effect beginning Spring 2009 following the Minimum Requirements for Probation and Disqualification established by Executive Order No. 1038.

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.

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.
2. 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
2. 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 postbaccalaureate 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 369.)

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.)
2. 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 service indicator 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 38 for further details.

Repeat of Courses: Undergraduate Students

1. Undergraduate students may only repeat courses if they earned grades lower than a "C." This policy (which went into effect as of Fall 2009) applies to any grade earned at CSUSB at any time. A maximum of twenty-four (24) units may be repeated for grade forgiveness (formerly called grade discounting). An additional eighteen quarter units may be repeated with both grades averaged into the grade point average calculation. Students are allowed a maximum of three (3) attempts per non-repeatable course. No repeats will be allowed beyond these limits.

Course Repeats with Grade Forgiveness

Grade forgiveness (discounting a grade) for a repeated course is by petition only. If the petition for grade forgiveness is approved, the new grade replaces the former grade in terms of GPA calculation. Petitions should be filed after the completion of the course used to discount the previous course. Students are strongly encouraged to speak with an advisor before repeating a course for grade forgiveness to ensure that the student is eligible to repeat that course to discount the grade.

2. Grade forgiveness (or 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 remain on the transcript with the repeat (discount) noted. Course repeats with discounting or "grade forgiveness" are permissible for undergraduate students subject to the following provisions:

a. Undergraduate students may repeat a maximum of 24 quarter units with grade forgiveness. This maximum includes any repeats taken at any time at CSUSB.

b. Undergraduate students may repeat an individual course for grade forgiveness no more than two times. In other words, if a student earns a grade of "C-" or lower in a first attempt at a class, the student may repeat that class to replace the grade. If the grade earned the second time is still lower than a "C," the student may repeat the course a final time. No subsequent attempts will be allowed.
Course Repeats with Grades Averaged

3. Undergraduate students may repeat an additional 18 quarter units in which the repeated grade will be averaged with the most recent grade provided the original grade was lower than a "C." These units are in addition to the 24 quarter units described above for which grade forgiveness is permitted. In such instances the repeat grade shall not replace the original grade. Units earned will be removed from the first attempt, and both grades shall be calculated into the student's overall grade point average.

4. A course may not be repeated for the purpose of removing an Incomplete. Incompletes that have changed to an "IC" or a letter grade lower than a "C" may be discounted on repeat.

5. If a 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 not affect a student's CSUSB grade point average but will affect the cumulative GPA. Units earned will be removed from the first attempt.

6. 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. Units earned will be removed from the first attempt.

7. Grades for courses taken at one institution (other than CSUSB) and repeated at CSUSB will be averaged when determining a student's cumulative grade point average. Units earned will be removed from the first attempt.

8. For transfer work, CSUSB will honor the repeat-of-course policy in effect at the institution issuing the transfer transcript.

9. Courses taken for undergraduate credit may not be repeated for discount as a postbaccalaureate student.

10. Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record.

11. Credit by Examination (CBE) may not be used to discount a course taken previously.

12. Students on approved Leaves of Absence or dismissal may repeat a course through the College of Extended Learning's Open University program in order to improve their CSUSB grade point average and petition for grade forgiveness. To take advantage of this provision, the student must first have a Leave of Absence approved by the Office of Advising and Academic Services. Once that is approved, the student must petition to repeat a course with a grade of "C" or better. If that is approved, the student can file a petition for grade forgiveness once the final grade has been posted. These shall count toward the maximum of 24 units that can be repeated for grade forgiveness.

Students taking classes during non-state supported summer sessions may also repeat a course in order to improve their CSUSB grade point average and petition for grade forgiveness. If the petition is approved, it will count toward the 24 unit maximum allowed for grade forgiveness and toward the 36 unit maximum of units applied from Open University. Simultaneous regular enrollment and enrollment through Open University is not permitted.

Contact Advising and Academic Services, UH-380, (909) 537-5034, for questions regarding repeating courses.

Petitions for waivers of this university regulation will only be considered in exceptional cases. Petitions must be made in writing to the Associate Vice President of Undergraduate Studies.

The foregoing provisions apply only to undergraduate students. Postbaccalaureate and graduate students must report to the Office of Graduate Studies to submit a petition for discounting. Regulations for repeating graduate courses can be found on Page 372.

Academic Renewal

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

1. The work to be disregarded must have been completed at least five years before the date of the petition to disregard it.

2. The student has completed all GE, major and elective requirements with the exception of the cumulative and/or CSUSB grade point average of 2.0. The student must demonstrate that it would be necessary to complete additional units and enroll for one or more additional terms in order to qualify for the baccalaureate degree if the request were not approved.

3. During the interval since completing the work to be disregarded, the student must have maintained a satisfactory record at CSUSB (22 units with at least a 3.0 grade point average; 45 units with at least a 2.5 grade point average; 67 units with at least a 2.0 grade point average).

4. Under special circumstances, a student who was admitted on probation through the administrative contract process may petition to have up to three quarters or two semesters of previous coursework disregarded from all consideration for the baccalaureate degree if ALL of the following conditions are fulfilled:

   a. The work to be disregarded must have been completed at least five years before the date of the petition to disregard it;

   b. The student must make the request for this academic renewal within the first academic year of attendance at CSUSB;

   c. During the interval since being admitted and the petition request, the student must have completed a minimum of 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.

In determining eligibility for graduation with University Honors for a second bachelor degree, all baccalaureate-level coursework completed past high school will be used in the GPA calculation.

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 970 (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:

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

Note that dual concentrations within the same major will require approval from the Department Chair.

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 service indicator 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 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.

**Electioon 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 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 50.)

**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 CSUSB 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 GPA through the end of the quarter prior to commencement (i.e. winter for spring commencement and summer for fall commencement).

- **Summa Cum Laude:** 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.
- **Magna Cum Laude:** 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.
- **Cum Laude:** 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.

In determining eligibility for graduation with University Honors with a second bachelor's degree, all baccalaureate-level coursework completed past high school will be used in the GPA calculation.
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, Arabic, art, biology, chemistry, communication, computer engineering, computer science, criminal justice, economics, English, environmental studies, French, geography, geology, health science, history, human development, 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

Undergraduate students must request a Graduation Requirement Check (Grad Check) at the Office of Records, Registration and Evaluations (UH-171) when they have completed 135 units towards their degree. Graduate students must request a Grad Check at least one term prior to their expected graduation. To avoid late fees, the Grad Check should be filed by the established deadlines listed below. Graduate students may file the Grad Check by the deadlines below without being advanced to candidacy, but the Grad Check cannot be completed until the advancement is received in the Office of Records, Registration and Evaluations.

Graduation Term Filing Date (first business day)
Summer Quarter January
Fall Quarter February
Winter Quarter May
Spring Quarter November

The fee for filing the Grad Check is $25 for each major/option requested. If the Grad Check is filed after the deadline, an additional $20 late fee for each major/option will be charged. Students who do not complete the requirements in the term for which the Grad Check was filed must re-file and pay a $20 fee for a second Grad Check for each major/option. If the re-filed Grad Check is submitted after the deadline date, an additional $20 late fee will be charged for each major/option.

Access to subsequent registration will not be allowed until the Grad Check has been re-filed or a graduate application is submitted for readmission.

The Office of Records, Registration and Evaluations will mail the official Grad Check to the address listed on the Grad Check Request form.

Conferral of Degree Upon Completion of Requirement

The CSU Chancellor has authorized campus presidents to confer degrees upon students as soon as they have completed all degree requirements. To ensure that students do not take unnecessary units beyond those required for the degree, the Office of Records, Registration, and Evaluation (RRE) will monitor progress toward the degree based, in part, on units completed. Particular attention will be paid to those students who have completed 120% of the units required for a degree. If it is determined that a student has completed all requirements for a degree and has not filed a graduation check, the student will be notified by RRE that appropriate fees will be assessed and the degree will be conferred.

Students may petition the Associate Vice President of Undergraduate Studies to delay conferral of the degree. Such petitions must be filed within two weeks of receipt of the notice referred to above. Such petitions will only be considered when there is a compelling academic reason to allow the student additional time. Petitions will not be granted for additional time to improve a GPA, nor will petitions be granted for time beyond one term to complete a second undergraduate degree.

In the event that a student does not petition to delay conferral of the degree within the two-week grace period, the degree will be posted to the student's transcript for the term in which all requirements were completed. Additionally, a hold will be placed on the student record that will prevent the student from registering for classes, obtaining a diploma, transcripts, or enrollment verification. Students enrolled in the subsequent term will be disenrolled from all classes. The student will also be assessed the graduation check fee and any late fees to which they are subject.

Diplomas

Diplomas are issued for a specific degree. Minors are not included on the diploma, but are recorded on the student's university transcript.

Students earning a Special Major will automatically receive a diploma stating "Special Major." Students wishing to have a diploma reflect the field of study will need to purchase a duplicate diploma requesting this additional information. Duplicate diploma forms are available in the Office of Records, Registration and Evaluations and require a $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 2012, 2013
- Summer 2012/2013, prospective December 2012/2013 and March 2013/2014 candidates are eligible to participate in the December 2012/2013 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 October.
- June 2013/2014
- December 2012/2013, March 2013/2014 and prospective June and September 2013/2014 candidates are eligible to participate in the June 2013 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 non-refundable commencement fee of $35.

Palm Desert Campus

The Palm Desert Campus holds one commencement exercise in June. In order for all eligible students to obtain information, the deadline to file a graduation check and be included in the Commencement Program is the last working day in April. The non-refundable commencement fee can be paid online or at the Palm Desert Office. Questions regarding this exercise should be directed
Veterans Enrollment Certification

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

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

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

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

Postbaccalaureate Credit for Senior Students

Upon approval, 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. Note: Some 500- and 600-level courses require prerequisites and are open only to students classified in a master's program. A petition for this purpose is available in the Office of Records, Registration and Evaluations.

Information for Issuance of Transcripts

Single transcripts are issued at a cost of $6 per copy, payable in advance. (Refer to fee schedule in the Class Schedule or Page 43.) 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 service indicator 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.

Enrollment Verification

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

- **Full time**: 12 weighted units
- **3/4 time**: 9-11 units
- **1/2 time**: 6-8.5 units
MINOR PROGRAMS

The minor is a pattern of courses similar to the major, but less comprehensive. The number of units required for a minor varies with each department. Requirements are listed in each department’s section of the catalog, refer to the page numbers given. Minors can only be granted for the same term in which the student graduates with an undergraduate degree. Minors will not be automatically dropped if the requirements have not been fulfilled by the term for which the student's graduation is posted. A minor is posted to the official transcript, but does not appear on the diploma.

All minors require a 2.0 grade point average. A minimum of 12 units of the coursework required for the minor must be completed through regular enrollment at CSUSB. Some minors require a higher minimum, check with the department for requirements.

A minor must be declared on the Minor Request Form, available in the Records, Registration and Evaluations Office. If the requested minor is in the same department as the major, the department chair’s approval will be required on the form.

Accounting
Department of Accounting and Finance, JB-459, (909) 537-5704. See Page 80.

Anthropology
Department of Anthropology, SB-327J, (909) 537-5502. See Page 80.

Applied Physics
Department of Physics, PS-119, (909) 537-5397. See Page 315.

Arabic
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 96.

Art History
Department of Art, VA-105, (909) 537-5802. See Page 104.

Asian Studies
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 111.

Biology
Department of Biology, BI-329, (909) 537-5305. See Page 120.

Business Administration
College of Business and Public Administration, JB-278, (909) 537-5700. See Page 80.

Business Information Mapping
Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 80.

Chemistry
Department of Chemistry and Biochemistry, CS-204, (909) 537-5318. See Page 131.

Chicano(a)/Latino(a) Studies, Ethnic Studies

Communication
Department of Communication Studies, UH-018, (909) 537-5815. See Page 137.

Computer Science
School of Computer Science and Engineering, JB-307, (909) 537-5326. See Page 146.

Criminal Justice
Department of Criminal Justice, SB-209, (909) 537-5506. See Page 154.

Economics
Department of Economics, SB-327D, (909) 537-5511. See Page 160.

Education
College of Education, CE-221, (909) 537-3600. See Page 164.

English

Entrepreneurship
Department of Management, JB-461, (909) 537-5731. See Page 80.

Environmental Studies
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 193.

Ethnic Studies
College of Social and Behavioral Sciences, SB-207, (909) 537-7500. See Page 194.

Film Studies
Department of Communication Studies, UH-018, (909) 537-5815. See Page 137.

Finance
Department of Accounting and Finance, JB-459, (909) 537-5704. See Page 80.

French
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 202.

Gender and Sexuality Studies
Gender and Sexuality Studies Program, College of Education Building, Room 226, (909) 537-5838. See Page 205.

Geography
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 209.

Geography - Global Studies
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 209.

Geology
Department of Geological Sciences, PS-219 (F), BI-113A (WS); (909) 537-5336. See Page 214.

German
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 218.

Graphic Design-Print
Department of Art, VA-105, (909) 537-5802. See Page 104.

Graphic Design-Web
Department of Art, VA-105, (909) 537-5802. See Page 104.

Health Science
Department of Health Science and Human Ecology, PS-226, (909) 537-5339. See Page 223.

History

Human Resources Management
Department of Management, JB-461, (909) 537-5731. See Page 80.

Information Systems and Technology
Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 81.

Intercultural Communication
Department of Communication Studies, UH-018, (909) 537-5815. See Page 138.
International Business
Department of Management, JB-461, (909) 537-5731.
See Page 82.

Islamic and Middle Eastern Studies
Department of History, SB-327F, (909) 537-5524.
See Page 254.

Japanese
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 257.

Jazz Studies
Department of Music, PA-111, (909) 537-5859. See Page 296.

Kinesiology
Department of Kinesiology, HP-120, (909) 537-5349.
See Page 261.

Latin American Studies
College of Arts and Letters, UH-201.44, (909) 537-5858.
See Page 267.

Management
Department of Management, JB-461, (909) 537-5731.
See Page 82.

Marketing
Department of Marketing, JB-458, (909) 537-5749.
See Page 83.

Mathematics
Department of Mathematics, JB-370, (909) 537-5361.
See Page 287.

Music
Department of Music, PA-111, (909) 537-5859. See Page 296.

Nutrition and Food Sciences
Department of Health Science and Human Ecology, PS-226, (909) 537-5339. See Page 308.

Paralegal Studies
Department of Criminal Justice, SB-209, (909) 537-5506.
See Page 154.

Philosophical Logic
Department of Philosophy, UH-339, (909) 537-5869.
See Page 309.

Philosophy
Department of Philosophy, UH-339, (909) 537-5869.
See Page 303.

Philosophy, Policy, and Economics
Department of Economics, SB-327D, (909) 537-5511.
See Page 160.
Department of Philosophy, UH-339, (909) 537-5869.
See Page 310.
Department of Political Science, SB-112, (909) 537-5535.
See Page 318.

Physics
Department of Physics, PS-119, (909) 537-5397.
See Page 315.

Political Economy
Department of Economics, SB-327D, (909) 537-5511.
See Page 160.

Political Science
Department of Political Science, SB-112, (909) 537-5535.
See Page 319.

Pre-Law
Department of Political Science, SB-112, (909) 537-5535.
See Page 319.

Psychology
Department of Psychology, SB-425, (909) 537-5570.
See Page 323.

Public Administration
Department of Public Administration, JB-456, (909) 537-5758.
See Page 82.

Public Relations
Department of Communication Studies, UH-018, (909) 537-5815. See Page 138.

Real Estate
College of Business and Public Administration, JB-278, (909) 537-5700. See Page 82.

Recording Arts
Department of Music, PA-111, (909) 537-5859. See Page 291.

Recreation
Department of Kinesiology, HP-120, (909) 537-5349.
See Page 256.

Script Writing
Department of Theatre Arts, PA-111, (909) 537-5876.
See one of the following Pages 138, 184, 356.

Sociology
Department of Sociology, SB-327, (909) 537-5541.
See Page 341.

Spanish
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 347.

Sports and Entertainment Marketing
Department of Marketing, JB-458, (909) 537-5749.
See Page 82.

Studio Art
Department of Art, VA-105, (909) 537-5802. See Page 104.

Supply Chain Management
Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 82.

Theatre Arts
Department of Theatre Arts, PA-111, (909) 537-5876.
See Page 356.
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 83.

Applied Cultural Anthropology  
Department of Anthropology, SB-327J, (909) 537-5502. See Page 90.

Arabic  
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 97.

Archaeology  
Department of Anthropology, SB-327J, (909) 537-5502. See Page 90.

Asian Studies  
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 112.

Bilingual/Cross-Cultural Studies: Spanish/English  
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 347.

Biotechnology  
Department of Biology, BI-329, (909) 537-5305. See Page 120.

Business Skills for the Artist  
Department of Art, VA-105, (909) 537-5802. See Page 105.

Coaching  
Department of Kinesiology, HP-120, (909) 537-5349. See Page 256.

Communication Skills  
Department of Communication Studies, UH-018, (909) 537-5815. See Page 138.

Computer Systems and Programming  
School of Computer Science and Engineering, JB-307, (909) 537-5326. See Page 147.

Criminal Justice  
Department of Criminal Justice, SB-209, (909) 537-5506. See Page 154.

Cyber Security  
Department of Information and Decision Sciences, JB-460, (909) 537-5723. See Page 83.

Education  
College of Education, CE-221, (909) 537-3600. See Page 165.

Fitness Management  
Department of Kinesiology, HP-120, (909) 537-5349. See Page 257.

French/English Translation  
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 202.

Gender and Sexuality Studies  
University Hall, Room 201.46, (909) 537-5838. See Page 205.

Geographic Information Systems  
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 209.

German/English Translators  
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 218.

Gerontology  
Department of Sociology, SB-327, (909) 537-5541. See Page 341.

Health Care Management  
Department of Health Science and Human Ecology, PS-226, (909) 537-5339. See Page 224.

Human Resources  
Department of Management, JB-461, (909) 537-5731. See Page 83.

Information Systems Management  
Department of Information and Decision Sciences, JB-460, (909) 537-5723. See Page 83.

International Relations  
Department of Political Science, SB-112, (909) 537-5535/5534. See Page 319.

Introductory Actuarial Science  
Department of Mathematics, JB-370, (909) 537-5361. See Page 281.

Introductory Mathematics  
Department of Mathematics, JB-370, (909) 537-5361. See Page 282.

Islamic and Middle Eastern Studies  
Department of History, SB-327F, (909) 537-5524. See Page 250.

Latin American Studies  
Department of Anthropology, SB-327J, (909) 537-5502. See Page 90.

Museum Studies  
Department of Anthropology, SB-327J, (909) 537-5502. See Page 90.

Native Nations/Indigenous People  
See Page 299.
Paralegal Studies

Puppetry
Department of Theatre Arts, PA-111, (909) 537-5876. See Page 357.

Recreation Leadership
Department of Kinesiology, HP-120, (909) 537-5349. See Page 257.

Social Services
Department of Sociology, SB-327, (909) 537-5541. See Page 341.

Spanish for Public Services
Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 347.

Supply Chain Management
Department of Information and Decision Sciences, JB-460, (909) 537-5723. See Page 83.

Theatre for Youth
Department of Theatre Arts, PA-111, (909) 537-5876. See Page 357.

Urban Planning
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 209.

Writing: Creative Writing

Writing: Professional Writing

The following certificates are restricted to postbaccalaureate/graduate students only:

Conflict Management
Department of Communication Studies, UH-018, (909) 537-5815 or Department of Management, JB-461, 537-5731. See Page 406.

Crosscultural, Language and Academic Development (CLAD)
Teacher Education Office, CE-102, (909) 537-5650. See Page 457.

E-Learning
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290. See Page 457.

Early Childhood Special Education
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606. See Page 457.

Education of the Gifted and Talented
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606. See Page 457.

Educational Technology
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290. See Page 452.

Environmental Education
Environmental Education Office, CE-, (909) 537-5640. See Page 458.

Holistic and Integrative Education
Department of Language, Literacy and Culture, CE-261, (909) 537-7405. See Page 458.

Intelligence Methodology

Reading/Language Arts
Department of Language, Literacy and Culture, CE-261, (909) 537-7405. See Page 458.

Rehabilitation Counseling
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606. See Page 534.

School Business Management
Department of Educational Leadership and Curriculum, CE-374, (909) 537-7404. See Page 458.

Teaching English as a Second Language
Department of English, UH-334, (909) 537-5824. See Page 488.
EXTENDED LEARNING

College of Extended Learning
Extend your knowledge, expand your opportunities
Sierra Hall, Room 134
(909) 537-5975  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 programs, certificate programs, noncredit offerings, customized training programs, facilities and program facilitation and support.

The California State University regards its Extended Learning credit- and non-credit bearing programs as integral parts of the institution. These programs are 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 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 many certificate programs, online and in the classroom, that can help participants gain a competitive edge for upward mobility in their workplace. Current certificate programs and workshops include topic areas such as:

Business/Management:
- Grant Development and Management
- Human Resources Management
- Records Management (online)
- School Business Management
- Supervisory Skills Development

Computer Systems:
- Computer Graphics and Design
- Microsoft Certified IT Training (online)
- Web Page Design

Education:
- Arts and Crafts
- Classroom Management
- Learning and Teaching Strategies
- Technology Integration, K-12 (online)
- Reading Fundamentals
- Spanish Interpretation and Translation in the School Setting
- Test Preparation

Health Care and Health Care Industry:
- Outpatient Medical Coding and Billing (online)
- Medical Transcription (online)
- Health Information Technology (online)
- Basic Audiology and Hearing Problems
- Pharmacy Technician (online)
- Inpatient Medical Coding and Billing (online)

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

Extended Learning also offers numerous online career training programs and personal enrichment classes in areas such as test preparation, local history and recreation. For more information, call (909) 537-5976.

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 school district requirements for 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, 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 problem-solving skills of the organization’s staff. For more information, call (909) 537-3982.

ON-LINE CAREER TRAINING PROGRAM

The College of Extended Learning offers online continuing education programs and courses designed to provide the workforce skills necessary to acquire professional calibre positions in many in-demand occupational areas such as business, education, health care, health sciences, education, electronic arts and information technology. The programs are designed to develop expertise in desired fields and/or prepare participants for industry certification exams.

In addition, Extended Learning offers thousands of individual online personal enrichment, skill building and training courses in nearly every subject imaginable. For more information, visit cel.csusb.edu/online_programs.html

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 and weekly memberships in this Institute, mature adults can choose courses from an impressive array of noncredit 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 and other satellite locations in the Coachella Valley. For more information, call (760) 341-2883, ext. 14428.

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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
- conditional admission to most academic programs
- pre-MBA/graduate studies preparation
- GMAT preparation
- TOEFL preparation
- academic counseling
- I-20 form for student visas
- educational and extra-curricular activities

The American Culture and Language Program offers a 10-week program each quarter and a summer camp for youth, ages 16-18. Many ACLP students eventually matriculate to California State University, San Bernardino.

International Training and Education Programs (ITEP)

Other programs offered through the International Extension Programs division 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.

International Academic Degree Programs

International academic degree programs coordinated in conjunction with CSUSB’s academic colleges and departments, such as CSUSB degree programs abroad, and certificate and "diploma" programs.

Homestay Program

Homestay is a housing option for ACLP students who want to improve their English in an immersion setting and learn how American families live. Host families from the area want students to become members of their families. 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.

For information on ACLP, Homestay, or any of the international programs offered through the College of Extended Learning's International Extension Programs office, call 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 may enroll in regular campus courses on a space-available basis. Students can apply up to a maximum of 36 units earned 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:
- want to examine a particular field before seeking admission to the university and enrolling in a degree program;
- want to update professional skills;
- missed the deadline for admission to CSUSB;
- have stopped attending CSUSB and wish to reenter;
- want to improve their GPA in order to reenter an academic program;
- wish to take selected CSUSB courses that will transfer to another university;
- want to take a course for the enjoyment of learning.

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. Graduate-level and education credit courses are not available through Open University, and certain other courses are restricted and require departmental approval. 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 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 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, call (909) 537-3982.
DEGREE PROGRAMS

Office of the Associate Vice President of Undergraduate Studies

The Office of the Associate Vice President 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 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 68, 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 72 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.

Educational Opportunity Program

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

Through the Educational Opportunity Program, the student receives help in admissions; registration; financial aid; housing; curriculum planning; tutoring; personal, academic and career counseling; graduate school information; workshops; and other support services, depending upon individual needs. Students who have been enrolled at the university prior to applying to EOP are not eligible to apply to the program.

Educational Support Programs

Advising and Academic Services

University Hall, Room 380
(909) 537-5034  www.ugs.csusb.edu/advising/
askcsusb@mail.csusb.edu (for advising questions)

The Office of 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 inquiries.

Faculty/Student Mentoring Program

Pfau Library, Room 208
(909) 537-7765  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
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 102) 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  [www.ugs.csusb.edu/lc/](http://www.ugs.csusb.edu/lc/)

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, instruction 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 368  
(909) 537-5921  [www.ugs.csusb.edu/sail/](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**  
University Hall, Room 368  
(909) 537-5045  [www.ugs.csusb.edu/testing/](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), Test of Essential Academic Skills (TEAS) for CSU nursing school applicants, U.S. Constitution, U.S. History and California State and Local Government Exams, and Writing Requirement Examination (WREE) can be obtained by contacting the Testing Office.

**Writing Center**  
University Hall, Room 387  
(909) 537-5232  [www.ugs.csusb.edu/wc/](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 is urged to consult special sources such as "Medical School Admission Requirements" (a publication of the Association of American Medicine).
Medical Colleges) or a preprofessional advisor in the College of Natural Sciences.

In general, medical and dental schools recommend that the preprofessional 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 116. 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 Admissions 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 pre-law minor consisting of such courses. For further information concerning the prelaw minor, see Page 319.

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.

**Program Requirements for a Bachelor’s Degree**

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

1. Complete a minimum of 180 quarter units of college credit. Some majors require more than 180 quarter units to a maximum of 204, or 218 for degrees with an integrated track.
2. Complete 82 quarter units in general education distributed in the manner outlined in the following section titled General Education Program Requirements. Satisfactory scores on the English Placement Test and the Entry Level Mathematics exam are prerequisites for enrollment in the following general education courses:
   - ENG 107. Advanced First-Year Composition
   - MATH 110. College Algebra
   - MATH 115. The Ideas of Mathematics
   - MATH 120. Pre-Calculus Mathematics
   - MATH 192. Methods of Calculus
   - MATH 211. Basic Concepts of Calculus
3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this university. (Refer to University Residence Requirement for Graduation, Page 68.)
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the major.
7. Earn a grade point average of 2.0 ("C") or better in all units attempted, and in all units attempted at the university.
8. Complete two quarter units of physical education course work as required in the general education program. Note a maximum of 12 units of physical education activity courses (numbered KINE 150 and below) may be applied toward graduation.
9. Complete the upper-division writing requirement. (See Page 71.)
10. Complete the history, constitution and California government require-
    ment. (See History, Constitution, Government Requirement, Page 
    71.)
11. Be recommended for graduation by the faculty of the university.
12. Have a graduation requirement check (grad check) on file prior to the 
    end of the term of graduation. (See Page 56.)

Early Start Program (ESP)

In order to improve retention and graduation, the CSU Chancellor’s Office 
has mandated that all new freshrnent students who have not demonstrated col-
lege-readiness in mathematics and English will need to begin work on becom-
ning ready for college-level mathematics and English before the start of their 
first term. For 2013, resident students would be required to participate in the Early 
Start Program if their ELM score is less than 50 and/or their EPT score is less 
than 138. The goal of ESP is to give students an early start on improving their 
basic skills in writing and mathematics. Students who are required to partici-
participate in the Early Start Program and fail to do so may not be allowed to take fall 
classes. For complete information about Early Start, please go to the Early Start 
web page at www.ugs.csusb.edu/earlystart.

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. Taking these 
placement tests is not a condition for admission to the CSU, but doing so is a 
condition for enrollment. These examinations are designed to identify entering 
students who may need additional support in acquiring college-level English 
and mathematics skills necessary to succeed in CSU baccalaureate-level 
courses. The EPT is used to place students in Early Start and may be referenced 
by students during the Directed Self-Placement process through which students 
enroll in a first-year English composition course. Undergraduate students who 
do not demonstrate college-level skills in mathematics or who score below 138 
on the EPT will be required to participate in the Early Start Program. Students 
placed in a remedial program in mathematics must complete all remediation 
in their first year of enrollment. Failure to complete remediation in mathematics 
or to complete the first-year English composition course by the end of the first 
year may result in denial of enrollment for future terms. Students register for the 
EPT and/or ELM via an on-line portal at www.ets.org/csu. Questions about 
test dates and registration materials may be addressed to the Testing Office, 
University Hall, Room 368, (909) 537-5041.

If all required first-year English composition or remedial math work is not 
completed within one year, students MUST see an advisor in Advising and Aca-
demic Services to develop a reinstatement plan.

English Placement Test (EPT). The English Placement Test (EPT) is de-
designed to assess the level of reading and writing skills of students entering the 
California State University. The CSU EPT must be completed by all non-exempt 
entering undergraduates prior to enrollment in any course, including develop-
mental courses.

Exemptions from the EPT are granted only to those who present proof of 
one of the following:
• A score of 500 or above on the critical reading section of the College Board 
  SAT Reasoning Test
• A score of 22 or above on the American College Testing (ACT) English 
  Test
• A score of 3 or above on either the Language and Composition or Compo-
  sition and Literature examination of the College Board Scholastic Advanced 
  Placement Program
• Completion and transfer to CSU of the credits for a college course that 
satisfies the CSU General Education requirement in English Composition, 
  provided such a course was completed with a grade of C or better
• A score of "Exempt" or "Ready for college-level English courses" on the 
  CSU Early Assessment Program (EAP) taken as part of the English 
  Language Arts California Standard Test in grade 11
• A score of "Conditionally ready for college-level English courses" or 
  "Conditional" on the CSU Early Assessment Program (IEAP) taken on 
  grade 11, provided successful completion of the Expository Reading 
  and Writing Course (ERWC), AP English, 1B English or an English 
  course approved for extra honors weight on the University of California 
  "a-g" Doorways course list.

The EPT does not determine the first-year English composition course 
students will select. Students are required to complete the English Depart-
ment’s Directed Self-Placement (DSP) self-assessment in order to select 
the first-year English composition course appropriate for them. Students may 
consider their EPT score in their DSP decision.

Entry Level Mathematics (ELM) Examination. The Entry Level Mathemat-
ics (ELM) Examination is designed to assess and measure the level of 
mathematics skills acquired through three years of rigorous college pre-
paratory mathematics coursework (Algebra I and II, and Geometry) of stu-
dents entering the California State University (CSU). The CSU ELM must 
be completed by all non-exempt entering undergraduates prior to enroll-
ment in any course, including remedial courses. Students who score 50 or 
above on the ELM will be placed in college-level mathematics classes.

Exemptions from the ELM are granted only to those who present proof of 
one of the following:
• A score of 550 or above on the mathematics section of the College 
  Board SAT Reasoning Test
• A score of 550 or above on a College Board SAT Subject Test in Math-
  ematics (level 1 or level 2)
• A score of 23 or above on the American College Testing (ACT) Math-
  ematics Test
• A score of 3 or above on the College Board Advanced Placement Cal-
  culus AB or Calculus BC exam
• A score of 3 or above on the College Board Advanced Placement Sta-
  tistics examination
• Completion and transfer to CSU of a college course that satisfies the 
  requirement in Quantitative Reasoning, provided such a course was 
  completed with a grade of C or better
• A score of "Exempt" or "Ready for college-level Mathematics courses" 
  on the CSU Early Assessment Program (EAP), taken in grade 11 in 
  conjunction with the CST in Summative High School Mathematics or 
  Algebra II
• A score of "Conditionally ready for college-level Mathematics courses" 
  or "Conditional" on the CSU Early Assessment Program (EAP) taken 
  in grade 11 along with the California Standards Test in Summative 
  High School Mathematics or Algebra II, provided successful completion of 
  a CSU-approved 12th grade math course that require Algebra II as a 
  prerequisite

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 re-
quired 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, 75C, 
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 now requires students who need pre-baccalaureate level coursework to begin that work in the summer prior to the start of the regular academic year through participation in the Early Start Program.

The EPT and ELM must be taken at the first opportunity after admission or as soon as possible thereafter and before registering for classes. The Office of Admissions and Student Recruitment will notify all admitted students of their EPT and ELM testing requirements and links to registration information for these exams. For complete information about the EPT and ELM exams, please visit www.ets.org/csu.

Assistance in understanding EPT and ELM test scores and requirements is available at Advising and Academic Services (University Hall, Room 380, (909) 537-5035) or the campus Testing Office (University Hall, Room 368, (909) 537-5045).

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 residency requirement.

Second Bachelor’s Degree Requirements

A student who holds a bachelor’s degree from California State University, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor’s degree in a different major:
1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement completed with a grade of "B" (3.0) or better;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor’s degree, a minimum of 45 quarter units of residence work of which
   a. 18 units must be in the second major,
   b. 12 units must be in general education,
   c. 36 units must be at the upper-division level;

Students who hold a bachelor's degree from any campus within the CSU or UC systems are held to specific general education requirements to be taken in residency at CSUSB. For more information, contact the Office of Records, Registration and Evaluations at (909) 537-5200.

5. Maintain a 2.5 grade point average in all work attempted;
6. Approval of the faculty of the university.

It is not necessary to complete a second bachelor’s degree in order to graduate with a dual major. Students seeking a second bachelor’s degree will be subject to the registration policies in effect for unclassified postbaccalaureates. See Page 43 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 graduating with one or more degrees will be issued separate diplomas. The fact that the requirements of multiple concentrations with the same degree have been completed will be noted on the transcript. Graduation check/diploma fees will be required for each separate degree.

GENERAL EDUCATION PROGRAM

Requirements (78-82 units) (see Addendum for program changes)

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 Upper-division 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)

1. Written Communication
   Four units chosen from:
   - ENG 104A. Stretch Composition III (4)
   - ENG 104B. Stretch Composition III for Multilingual Students (4)
   - ENG 106. Accelerated Stretch Composition II (4)
   - ENG 107. Advanced First-Year Composition (4)

2. Oral Communication
   Four units chosen from:
   - COMM 120. Oral Communication (4)
   - HON 104C. Language and Meaning: Oral Communication (4)*

3. Mathematics
   One course listed in the mathematics section of the natural sciences breadth area (category B1).
4. Critical Thinking
Four units chosen from:
COMM 180. Critical Thinking Through Argumentation (4)
HON 104A.* Language and Meaning: Critical Thinking (4)*
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)

B. Natural Sciences Breadth Area (20 units)

1. Mathematics
MATH 110, 115, and 120 must be completed with a grade of "C" (2.0) or better
Four units chosen from:
MATH 110. College Algebra (4)
MATH 115. The Ideas of Mathematics (4)
MATH 120. Pre-Calculus Mathematics (4)
MATH 192. Methods of Calculus (4)
MATH 211. Basic Concepts of Calculus (4)

2. Life Sciences
Five units chosen from:
BIOL 100. Topics in Biology (5)
BIOL 202. Biology of Populations (5)
HSCI 120. Health and Society: An Ecological Approach (5)

3. Physical Sciences
A minimum of five units chosen from:
ASTR 103. Descriptive Astronomy (5)
CHEM 100. Chemistry in the Modern World (5)
CHEM 205. Fundamentals of Chemistry: General Chemistry (5)
CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
GEOG 103. Physical Geography (5)
GEOL 101. Introductory Geology (5)
PHYS 100. Physics in the Modern World (5)
PHYS 121. Basic Concepts of Physics I (5)
PHYS 221. General Physics I (5)

4. Special Topics in Science and Technology
Two units chosen from:
BIOL 216. Genetics and Society (2)
BIOL 217. Biology of Sexually Transmitted Diseases (2)
CHEM 105. Chemicals in Our Environment (2)
CSE 122. Bioinformatics (2)
CSE 129. Science, Computing and Society (2)
GEOL 205. Volcanic Hazards, Surveillance and Prediction (2)
GEOL 210. Earthquakes: Science and Public Policy (2)

5. Integrative Capstone in the Natural Sciences
Four units chosen from:
NSCI 300. Science and Technology (4)
NSCI 310. The Environment and Human Survival (4)
NSCI 314. Life in the Cosmos (4)
NSCI 315. Natural Disasters (4)
NSCI 320. Energy (4)
NSCI 325. Perspectives on Gender (also counts in category G1) (4)
NSCI 351. Health and Human Ecology (4)
NSCI 360. Legacy of Life (4)

Note: Students may receive credit for only one of the following courses:
HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender

C. Humanities Breadth Area (20 units)

1. Arts
Four units chosen from:
ART 200. Studies in Art (4)
HUM 180. The Art of Film (4)
MUS 180. Studies in Music (4)
TA 260. Introduction to Theatre (4)

2. Literature
Four units chosen from:
ENG 110. World Literature I (4)
ENG 111. World Literature II (4)
ENG 160. World Drama (4)
ENG 170. Studies in Literature (4)
TA 160. World Drama (4)
TA 212. Oral Interpretation of Literature (4)

3. Foreign Language or Literature in Translation
Four units chosen from:
ARAB 103. College Arabic III (4)
ARAB 201. Intermediate Arabic I (4)
ARAB 202. Intermediate Arabic II (4)
ARAB 203. Intermediate Arabic III (4)
ARAB 214. Conversation in Arabic (4)
ARAB 290. Arabic Literature in Translation (4)
ASL 103. American Sign Language III (4)
ASL 201. American Sign Language IV (4)
ASL 202. American Sign Language V (4)
ASL 203. American Sign Language VI (4)
CHIN 103. College Chinese III (4)
CHIN 201. Second Year College Chinese I (4)
CHIN 202. Second Year College Chinese II (4)
CHIN 203. Second Year College Chinese III (4)
CHIN 214. Conversation in Chinese (4)
CHIN 290. Mandarin Literature in Translation (4)
FLAN 103. Language Study III (4)
FREN 103. College French III (4)
FREN 200. Culture and Communication (4)
FREN 201. Culture and Communication II (4)
FREN 202. Culture and Communication III (4)
FREN 290. French Literature in English (4)
GER 103. College German III (4)
GER 212. Composition (4)
GER 214. Conversation (4)
GER 216. Introduction to Literary Texts (4)
GER 290. German Literature in English (4)
JAPN 103. College Japanese III (4)
JAPN 201. Intermediate Japanese I (4)
JAPN 202. Intermediate Japanese II (4)
JAPN 203. Intermediate Japanese III (4)
JAPN 214. Conversation in Japanese (4)
JAPN 290. Japanese Literature in Translation (4)
KOR 103. College Korean III (4)
KOR 201. Second Year College Korean I (4)
KOR 202. Second Year College Korean II (4)
KOR 203. Second Year College Korean III (4)
KOR 214. Conversation in Korean (4)
KOR 290. Korean Literature in Translation (4)
SPAN 103. College Spanish III (4)
SPAN 201. Intermediate Spanish I (4)
SPAN 202. Intermediate Spanish II (4)
SPAN 203. Intermediate Spanish III (4)
SPAN 214. Conversation
SPAN 290. Spanish and Latin American Literature in English (4)

*Open only to students accepted into the University Honors Program.
The following rules apply to challenging a course for credit toward this category:

a. Only courses at the 103-level or higher may be challenged;
b. Students wishing to challenge a language not offered at this university must present evidence of an official ACTFL Oral Proficiency Interview (OPI) 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;
c. Students whose language of instruction in secondary school was not English may satisfy this category by submitting official academic transcripts that show completion of secondary school in a country in which the language with which they wish to meet the foreign language requirement was the medium of instruction;
d. Students who satisfy the Foreign Language/Literature in Translation requirement through b or c above will not receive academic credit and must take four additional units from the Humanities Breadth Area (Category C) to meet the total number of General Education units required for graduation.

4. Philosophy
Four units chosen from:

- HON 104B.* Language and Meaning: Introduction to Philosophy (4)
- PHIL 190. Introduction to Philosophical Issues (4)
- PHIL 191. Introduction to Ethics (4)
- PHIL 192. Introduction to Philosophy of Religion (4)
- PHIL 193. Introduction to Eastern Philosophy (4)
- PHIL 194. Introduction to Knowledge and Reality (4)

5. Integrative Capstone in the Humanities
Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)
- HUM 325. Perspectives on Gender (also counts in category G1) (4)
- HUM 328. Asian Cultural Traditions (also counts in category G1) (4)
- HUM 330. Arts and Ideas (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (also counts in category G1) (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 G1) (4)
- HUM 370. African Heritage in the Arts (also counts in category G1) (4)
- HUM 375. The World of Islam (also counts in category G1) (4)
- HUM 380. Comparative Studies in the Arts: East and West (also counts in category G1) (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)

1. American History and Civilization
Four units chosen from:

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)
- HIST 201. United States History, 1877 to the Present (4)

2. American Institutions
Four units chosen from:

- PSCI 203. American Government (4)

Note: The American history, constitution, state and California local government requirement may be met by taking:

- PSCI 203. American Government

and one of the following:

- HIST 146. American Civilization
- HIST 200. United States History to 1877
- HIST 201. United States History, 1877 to the Present

If this requirement is met by examination, then students still must take 16 units of lower-division units in this breadth area.

3. World Cultures
Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)
- HIST 142. World Civilizations II, the Civilizations of the East and West (4)
- HIST 144. World Civilizations III, the Expansion of Europe (4)
- SSCI 165. Regions and Peoples of the World (4)

4. Discipline Perspectives
Four units chosen from:

- ANTH 100. Introduction to Anthropology: Human Evolution (4)
- ANTH 102. Introduction to Anthropology: Culture and Society (4)
- ECON 104. Economics of Social Issues (4)
- ES 100. Ethnicity and Race in America (4)
- GEOG 100. Introduction to Human Geography (4)
- GSS 100. Introduction to Women's Studies (4)
- GSS 101. Introduction to Masculinity Studies (4)
- GSS 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
- PSYC 100. Introduction to Psychology (4)
- SOC 100. The Study of Society (4)

5. Integrative Capstone in the Social and Behavioral Sciences
Four units chosen from:

- SSCI 300. Nonwestern World (4)
- SSCI 304. Contemporary Latin America (4)
- SSCI 315. Cultural Adaptation: The Quest for Survival (4)
- SSCI 316. Race and Racism (also counts in category G1) (4)
- SSCI 320. Understanding Capitalism (4)
- SSCI 321. Urbanization and the Urban Environment (4)
- SSCI 325. Perspectives on Gender (also counts in category G1) (4)
- SSCI 345. Religious Expression in America (4)
- SSCI 350. Roots of Modern Racism in America (also counts in category G1) (4)

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

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

E. Lifelong Understanding Category (6 units)

1. The Whole Person - Physical and Physiological Issues
   KINE 205. Foundations for Lifetime Fitness and Wellness (2)

2. The Whole Person - Social and Psychological Issues
   Two units chosen from:
   - FIN 101. Financial Choices in Life (2)
   - PHIL 101. Moral Choices in Life (2)
   - PSYC 115. Personal and Social Adjustment (2)
   - SOC 110. Choices in the Life Course (2)

*Open only to students accepted into the University Honors Program.
3. Physical Education
   Two units chosen from:
   KINE 101. Individual and Dual Activities (2)
   KINE 114. Physical Fitness and Conditioning Activities (2)
   KINE 120. Somatic and Martial Arts Activities (2)
   KINE 121. Team Activities (2)
   KINE 137. Aquatic Activities (2)
   KINE 147. A Fitness Odyssey (2)
   KINE 149. Independent Activity Project (2)
   KINE 150. Dance Activities (2)

   Note: All students are required to complete two units of physical education in this category. Ten additional units of physical education activity courses (numbered 150 and below) for a total of 12 units maximum may be applied toward graduation.

F. Upper-Division Writing Requirement (0-4 units)
   This requirement can be met by completing one of the following two options:
   1. Successfully completing one of the following upper-division expository writing courses with a grade of "C" (2.0) or better (4 units):
      EDUC 306. Expository Writing for Education (4)
      ENG 306. Expository Writing (4)
      HON 306. Expository Writing (4)
      HUM 306. Expository Writing for the Humanities (4)
      MGMT 306. Expository Writing for Administration (4)
      NSCI 306. Expository Writing for the Natural Sciences (4)
      SSCI 306. Expository Writing for the Social Sciences (4)
   2. Passing the Writing Requirement Exemption Exam (WREE). (0 units)
      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.

G. Multicultural/Gender Requirement Category
   All students must take one upper-division course designated as meeting this requirement. The multicultural/gender requirement can be met by completing one of the following two options:
   1. Integrative capstone course in one of the three breadth areas (categories B5, C5 or D5)
      HUM 325. Perspectives on Gender (4)
      HUM 328. Asian Cultural Traditions (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)
   2. One upper-division course from the following:
      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)
      ECON 352. Political Economy of Poverty and Discrimination (4)
      ENG 314. American Indian Literature (4)
      HUM 460. Cultural Studies (4)
      MUS 308. Women in Music (4)
      MUS 309. Jazz History in America and African-American Culture (4)
      MUS 350. Music of World Cultures (4)
      PA 305. Organizations in Multicultural and Diverse Societies (4)
      PHIL 364. Philosophy of Race and Ethnicity (4)
      PHIL 367. Gender and Philosophy (4)
      TA 462. African-American Theatre and Drama (4)
      TA 463. Asian Theatre (4)

Upper-Division Writing Requirement
   All undergraduate students subject to degree requirements of the 1980-81 or subsequent University Bulletins must complete an upper-division writing competency requirement as a condition of graduation through either of two means:
   1. Completion with a grade of "C" (2.0) or better of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306 or HON 306 (for students in the Honors Program).
      Prerequisites for 306 courses are: satisfaction of the written communication requirement (A1) and a minimum of 90 quarter (60 semester) units of college credits. (Note: these 306 courses were previously numbered 495.)
   2. Satisfactory completion of the Writing Requirement Exemption Examination. No credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.
      Students normally shall complete the upper-division writing requirement by the end of the junior year. Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Office, University Hall, Room 368, (909) 537-5045. Contact the Office of the Associate Vice President of Undergraduate Studies, University Hall, Room 368, (909) 537-5032 for questions about the upper-division writing requirement itself.

History, Constitution, Government Requirement
   Each student must demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.
   The requirement in the U.S. Constitution may be met by completing one of the following: HIST 146, 200 and 201, or PSCI 203, 410 or 411.
   The requirement in U.S. history may be met by completing one of the following: HIST 146, 200, 201, 540, or PSCI 314.
   The requirement in state and local government as established in California may be met by completing one of the following: HIST 270 or 370 or PSCI 203, 330 or 332.
   Note: General Education credit is granted for HIST 146, 200, 201 and PSCI 203 only.

   A student can meet the entire U.S. Constitution, U.S. history, and California state and local government requirement, while fulfilling general education requirements, by taking PSCI 203 and one of the following: HIST 146, or 200 or 201. The opportunity to meet the requirements by passing an optional examination, which may be repeated once (not in the same quarter), is given to students. However, if this requirement is met by examination, students must still complete 16 lower-division units in the Social and Behavioral Sciences breadth area (category D). Information may be obtained from either the Office of Records, Registration and Evaluations or the College of Social and Behavioral Sciences Office. The examinations are administered through the Testing Office.
ACCOUNTING

Department of Accounting and Finance
Jack Brown Hall, Room 459
(909) 537-5704  accountingfinance.csusb.edu

FACULTY:  Mohammad Bazaz, Rong Chen (Chair), Janet Courts, John Dorocak, Ron Escobar, Sung-Kyoo Huh, John Jin, Wu-Lung Li, Richard Lillie, Xian "Samantha" Liu, Vishal Munsif

The university offers concentrations in accounting within the Bachelor of Arts in Administration, the Master of Science in Accountancy, and the Master of Business Administration. A Certificate in Accountancy is also available. The details of these programs are listed under Administration on Page 74. The Master of Science in Accountancy is listed on Page 374. The Master of Business Administration can be found on Page 387. 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 use 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. (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, IST 101, and 309. (4 units)

347. **Management Accounting and Decision Making**  
Overview of techniques to facilitate business decision-making. Models include break-even analysis, differential costing, product cost pricing analyses, capital budgeting and investment analysis techniques. The role of budgeting in management planning and control and an examination of cost and revenue variances. Transfer pricing, management compensation and performance evaluation are reviewed in both domestic and international situations. 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. (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. (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, 373, and the upper-division writing requirement. (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)

468. **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.) Formerly ACCT 568. Prerequisite: ACCT 211. (4 units)

503. **Financial Accounting**  
Introductory 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. (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)
541. **Advanced Auditing**
Continuation of ACCT 440 with emphasis on audit sampling, test
design, impact of electronic data processing (EDP) upon audit plan-
ning, and assurance and attestation services other than audit ser-
dices. Three hours lecture and two hours activity laboratory. Formerly
ACCT 441. Prerequisite: ACCT 440. (4 units)

544. **Accounting Law, Ethics and Institutions**
Advanced accounting law topics, ethical standards, and institutions
for professional accountants. Emphasis on legal problems encoun-
tered in the public auditing profession, including an examination
of the ethical standards and the political and regulatory institutions that
affect the practice of public accounting. Formerly ACCT 444. Prereq-
uisite: MGMT 330 or equivalent. (4 units)

547. **Cost Accounting**
Product and service costing with attention to analysis of over-
head and multiple allocation techniques. Topics include joint costs,
byproducts, spoilage, rework and scrap. Alternative costing systems
including operations costing and process costing. Valuation of inven-
tory for decision-making purposes. Procedures for just-in-time inven-
tory management are included. Formerly ACCT 447. Prerequisite:
ACCT 347 or equivalent. (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 adminis-
tration and practice, working with tax law, advanced individual income
tax topics, and other special topics. Formerly ACCT 456. Prerequi-
site: ACCT 426. (4 units)

574. **Reporting Issues in Intermediate Accounting**
Study of revenue recognition, deferred taxes, pensions and leases.
Formerly ACCT 374. Prerequisites: ACCT 373 and the upper-division
writing requirement. (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)
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 66, an administration major or minor student must earn a grade of ("C") 2.0 or better in all units used to fulfill the requirements of the concentration or minor.

**B.A. IN ADMINISTRATION**

**Requirements (92 units)** (see Addendum for program changes)

**Total units required for graduation: 180**

**Requirements for the B.A. in Administration:**

Students must earn a grade of "C" (2.0) or better in all lower division, upper-division and concentration courses required to fulfill a 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. MGMT 230. Business Law (4)
8. Four units chosen from (also meets the General Education requirement category B1):
   - MATH 105. 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. IST 309. Information Systems and Technology (4)
4. Four units chosen from:
   MGMT 302. Management and Organizational Behavior (4)
   PSYC 302. Management and Organizational Behavior (4)
5. MGMT 330. Legal Environment of Business (4)
6. MGMT 490. Strategic Management (4)
7. MKTG 305. Marketing Principles (4)
8. PA 315. Government-Business Relations (4)
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 PA 490 for MGMT 490.

Concentration (24-32 units)

Choose one concentration from the following:

Note: The concentration electives should be chosen from the electives listed for each concentration or, with the prior approval of the department chair, the student may substitute other courses for these electives. With prior approval, up to two of the concentration electives may be chosen from other academic disciplines. In planning their career goals, students should review course offerings of other departments to determine if specific courses fit their career plans.

Accounting Concentration (30-32 units)

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. ACCT 574. Reporting Issues in Intermediate Accounting (4)
8. Two or more units to be chosen from the following in consultation with advisor:
   ACCT 442. International and Operational Auditing (4)
   ACCT 468. Accounting for Government and Not-for-Profit Organizations (4)
   ACCT 536. Corporate and Partnership Taxation (4)
   ACCT 539. Advanced Accounting (4)
   ACCT 541. Advanced Auditing (4)
   ACCT 544. Accounting Law, Ethics and Institutions (4)
   ACCT 547. Cost Accounting (4)
   ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
   ACCT 575. Internship in Accounting (4)
   ACCT 595. Independent Study (2 or 4)
   FIN 356. Business and Asian Culture (4)

Business Economics Concentration (24 units)

1. ECON 322. Managerial Economics (4)
2. ECON 335. Tools of Economic Analysis (4)
3. ECON 372. Business Cycles (4)
4. Twelve units chosen from:
   ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
   ECON 340. Advanced Tools of Economic Analysis (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. Decision Making in Supply Chain and Transportation Management (4)
   SCM 470. Supply Chain Management (4)

Entrepreneurial Management Concentration (24 units)

1. MGMT 543. New Venture Opportunity Analysis (4)
2. MGMT 544. New Venture Development (4)
3. MGMT 545. New Venture Resource Requirements (4)
4. MGMT 549. Launching the Entrepreneurial Venture (4)
5. Eight units chosen from:
   FIN 420. Entrepreneurial Finance (4)
   MGMT 442. Small Business Management (4)
   MGMT 455. Human Resources Management (4)
   MGMT 515. Business Consulting (4)
   MGMT 541. Commercializing Entrepreneurial Innovation (4)
   MGMT 547. Managing a Growing Business (4)
   MGMT 575. Internship in Management (4)
   MKTG 430. Professional Selling and Sales Management (4)
   MKTG 460. Retailing (4)
   MKTG 530. Strategic Entrepreneurship (4)
6. MGMT 998. Baccalaureate Reflective Essay (0)

Finance Concentration (24 units)

1. FIN 430. Financial Theory and Practice (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 433. International Business Finance (4)
4. FIN 435. Investment Analysis (4)
5. Four units chosen from:
   FIN 527. Financial Derivatives (4)
6. Four units chosen from:
   ACCT 372. Intermediate Accounting (4)
   ACCT 468. Accounting for Government and Not-for-Profit Organizations (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 356. Business and Asian Culture (4)
   FIN 360. Financial Planning Process and Insurance (4)
   FIN 380. Principles of Real Estate (4)
   FIN 420. Entrepreneurial Finance (4)
   FIN 460. Retirement Planning (4)
   FIN 534. Export-Import Financing (4)
   FIN 546. Student Managed Investment Fund (2)
   FIN 575. Internship in Finance (4)
   FIN 585. Real Estate Finance (4)
   MGMT 442. Small Business Management (4)
   SCM 350. Decision Making in Supply Chain and Transportation Management (4)

Human Resource Management Concentration (24 units)

1. MGMT 455. Human Resources Management (4)
2. Four units chosen from:
   MGMT 456. Developing an Effective Workforce (4)
   PSYC 355. Industrial Psychology (4)
   MGMT 457. Industrial and Labor Relations (4)
   MGMT 458. Fair Employment Practices (4)
3. MGMT 470. Strategic Human Resource Management (4)
4. Eight units chosen from:
   HSCI 381. Occupational Safety (4)
   HSCI 436. Human Resources Management in Health Care (4)
   MGMT 459. Work Group Management (4)
   MGMT 575. Internship in Management (4)
   PA 305. Organizations in Multicultural and Diverse Societies (4)
   PA 462. Public Personnel Administration (4)

NOTE: Students concentrating in Human Resources Management may not also concentrate in Management.
Information Systems and Technology Concentration (24 units)
1. Eight units of electives chosen from any 100- or 200-level IST courses.
2. IST 372. Information Technology (4)
3. IST 378. Problem Solving and Risk Management (4)
4. IST 490. Information Systems Planning and Policy (4)
5. Four units of electives chosen from any 300-, 400- and 500-level IST courses.

Management Concentration (24 units)
1. MGMT 335. Business and Society (4)
2. MGMT 350. Administrative Communications (4)
3. MGMT 455. Human Resources Management (4)
4. Twelve units chosen from:
   - MGMT 402. Studies in Organizational Behavior (4)
   - MGMT 405. Managing Across Borders (4)
   - MGMT 406. International Business Law (4)
   - MGMT 442. Small Business Management (4)
   - MGMT 451. Organization and Management Theory (4)
   - MGMT 452. Leading Effectively and Ethically (4)
   - MGMT 457. Industrial and Labor Relations (4)
   - MGMT 459. Work Group Management (4)
   - MGMT 515. Business Consulting (4)
   - MGMT 575. Internship in Management (4)
   - MGMT 590. Seminar in Management (2 or 4) for a total of (4)

NOTE: Students concentrating in Management may not also concentrate in Human Resources Management.

Marketing Concentration (24 units)
1. MKTG 410. Consumer Behavior (4)
2. MKTG 416. Marketing Research (4)
3. MKTG 436. Marketing Decision-Making (4)
4. MKTG 496. Marketing Planning and Strategy (4)
5. Four units chosen from:
   - MKTG 420. Advertising (4)
   - MKTG 430. Professional Selling and Sales Management (4)
6. Four units of 400- 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) (if not taken in category 5)
   - MKTG 438. Industrial Marketing (4)
   - MKTG 446. Advertising Campaign (4)
   - MKTG 460. Retailing (4)
   - MKTG 462. Merchandising (4)
   - MKTG 470. International Marketing Management (4)
   - MKTG 520. Integrated Marketing Communication (4)
   - MKTG 525. Sports and Entertainment Marketing (4)
   - MKTG 530. Strategic Entrepreneurship (4)
   - MKTG 540. E-Marketing (4)
   - MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
   - MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
   - MKTG 560. Services Marketing (4)
   - MKTG 565. Logistics (4)
   - MKTG 572. Import-Export Management (4)
   - MKTG 575. Internship in Marketing (4)
   - MKTG 590. Seminar in Marketing (4)
   - MKTG 595D. Independent Study (4)

Public Administration 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. Four units chosen from:
   - PSCI 320. The Legislative Process (4)
   - PSCI 330. State and Local Politics (4)
5. Eight units chosen from:
   - PA 305. Organizations in Multicultural and Diverse Societies (4)
   - PA 473. Public Transportation Planning, Policy and Regulation (4)
   - PA 501. Administrative Leadership (4)
   - PA 514. Management of Private Nonprofit Organizations (4)
   - PA 516. Public and Non-Profit Project Management (4)
   - PA 521. Principles of Planning (4)
   - PA 540. Introduction to Tribal Management and Governance (4)
   - PA 542. Tribal Government Gaming and Economic Development (4)
   - PA 548A. Management of Computers in the Public Sector: Word Processing (4)
   - PA 548B. Management of Computers in the Public Sector: Data Base Management (4)
   - PA 548C. Management of Computers in the Public Sector: Spread Sheets (4)
   - PA 548D. Management of Computers in the Public Sector: Communication (4)
   - PA 548F. Management of Computers in the Public Sector: Special Problems (4)
   - PA 557. Public Sector Labor Relations (4)
   - PA 564. Local Public Administration (4)
   - PA 568. Accounting for Government and Not-for-Profit Organizations (4)
   - PA 575. Internship in Public Administration (4)
   - PA 590. Seminar in Public Administration (4)
   - PA 595. Independent Study (2-4) (with consent of department chair)

Real Estate Concentration (24 units)
1. FIN 380. Principles of Real Estate (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 480. Real Estate Appraisal (4)
4. Four units chosen from:
   - FIN 481. Real Estate Practice (4)
   - FIN 485. Legal Aspects of Real Estate (4)
5. FIN 585. Real Estate Finance (4)
6. Four units chosen from:
   - ACCT 347. Management Accounting and Decision Making (4)
   - ACCT 372. Intermediate Accounting (4)
   - ACCT 373. Problem Areas in Intermediate Accounting (4)
   - ACCT 426. Introduction to Taxation (4)
   - ACCT 536. Corporate and Partnership Taxation (4)
   - ECON 410. Money and Banking (4)
   - FIN 355. Business and Asian Culture (4)
   - FIN 360. Financial Planning Process and Insurance (4)
   - FIN 433. International Business Finance (4)
   - FIN 435. Investment Analysis (4)
   - FIN 460. Retirement Planning (4)
   - FIN 481. Real Estate Practice (4) (if not taken previously)
   - FIN 482. Real Estate Development (4)
   - FIN 485. Legal Aspects of Real Estate (4) (if not taken previously)
   - FIN 523. Security Trading and Analysis (4)
   - FIN 546. Student Managed Investment Fund (2)
   - FIN 575. Internship in Finance (4)
   - MKTG 430. Professional Selling and Sales Management (4)
Sports and Entertainment Marketing Concentration (24 units)
1. MKTG 525. Sports and Entertainment Marketing (4)
2. MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
3. MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
4. Twelve units chosen from:
   MKTG 410. Consumer Behavior (4)
   MKTG 416. Marketing Research (4)
   MKTG 420. Advertising (4)
   MKTG 430. Professional Selling and Sales Management (4)
May choose only one of the following two courses for a total of four units toward the degree:
   MKTG 575. Internship in Marketing (4)
   MKTG 590. Seminar in Marketing (4)

Supply Chain and Transportation Management Concentration (24 units)
1. SCM 305. Enterprise Resource Planning (4)
2. SCM 350. Decision Making in Supply Chain and Transportation Management (4)
3. SCM 440. Transportation System Management (4)
4. SCM 480. Quality Management (4)
5. SCM 490. Strategic Management in Supply Chain and Transportation (4)
6. Four units chosen from:
   GEOG 307. Transportation Issues and Development (4)
   IST 280. Information Mapping and Data Visualization (4)
   MKTG 565. Logistics (4)
   SCM 405. Advanced Enterprise Systems (4)
   SCM 445. International Logistics (4)
   SCM 575. Internship in Supply Chain Management (4)
   SCM 595. Independent Study (4)

B.S. IN ADMINISTRATION
Requirements (112 units) (see Addendum for program changes)

Total units required for graduation: 198

Requirements for the B.S. in Administration:
Students must earn a grade of "C" (2.0) or better in all lower-
division, upper-division and concentration courses required to fulfill
a 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 100. Principles of Microeconomics (4)
4. ECON 200. Principles of Microeconomics (4)
5. IST 101. Introduction to Information Technology (4)
6. MGMT 230. Business Law (4)
8. Four units chosen from (also meets the General Education
   requirement category B1):
   MATH 110. College Algebra (4)
   MATH 120. Pre-Calculus Mathematics (4)
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Concepts of Calculus (4)

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

Choose one concentration from the following:

Note: The concentration electives should be chosen from
the electives listed for each concentration or, with 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 Information Systems Concentration
1. ACCT 315. Accounting Information Systems (4)
2. ACCT 347. Management Accounting and Decision Making (4)
3. ACCT 372. Intermediate Accounting (4)
4. ACCT 373. Problem Areas in Intermediate Accounting (4)
5. ACCT 426. Introduction to Taxation (4)
6. ACCT 440. Financial Statement Auditing (4)
7. CSE 201. Computer Science I (4)
8. CSE 202. Computer Science II (4)
9. Twelve units chosen from:
   CSE 330. Data Structures (4)
   CSE 455. Software Engineering (4)
   IST 274. Data Base Management and Policies (4)
   IST 275. Information Networking and Security (4)
   IST 276. Systems Analysis and Design (4)
   IST 372. Information Technology (4)
   IST 474. Advanced Data Base Management and Information Assurance (4)
   IST 475. Advanced Information Networking and Security (4)
   IST 476. Advanced Systems Analysis and Design (4)

Cyber Security Concentration
1. IST 276. Systems Analysis and Design (4)
2. IST 372. Information Technology (4)
3. IST 378. Problem Solving and Risk Management (4)
4. IST 410. Information Systems Security Professionals (4)
5. IST 415. Security Systems Management (4)
6. IST 474. Advanced Data Base Management and Information Assurance (4)
7. IST 475. Advanced Information Networking and Security (4)
8. IST 490. Information Systems Planning and Policy (4)
9. IST 511. Cyber Defense (4)
10. Eight units chosen from any IST or CSE major courses, HSCI 437, or CJUS 550.

Finance Concentration
1. Four units chosen from:
   FIND 360. Financial Planning Process and Insurance (4)
   FIND 380. Principles of Real Estate (4)
2. FIND 430. Financial Theory and Practice (4)
3. FIND 432. Financial Institutions and Capital Formation (4)
4. FIND 433. International Business Finance (4)
5. FIND 435. Investment Analysis (4)
6. Four units chosen from:
   FIND 527. Financial Derivatives (4)
7. Twenty units of electives chosen from:
   ACCT 372. Intermediate Accounting (4)
   ACCT 373. Problem Areas in Intermediate Accounting (4)
   ACCT 426. Introduction to Taxation (4)
ACCT 536. Corporate and Partnership Taxation (4)
ACCT 547. Cost Accounting (4)
ACCT 556. Estates and Gifts and other Specialized
Taxation Topics (4)
ECON 410. Money and Banking (4)
ECON 475. Public Finance (4)
FIN 355. Business and Asian Culture (4)
FIN 360. Financial Planning Process and Insurance (if not taken previously) (4)
FIN 380. Principles of Real Estate (if not taken previously) (4)
FIN 420. Entrepreneurial Finance (4)
FIN 460. Retirement Planning (4)
FIN 480. Real Estate Appraisal (4)
FIN 523. Security Trading and Analysis (4)
FIN 534. Export-Import Financing (4)
FIN 546. Student Managed Investment Fund (2)
FIN 575. Internship in Finance (4)
FIN 585. Real Estate Finance (4)
FIN 590. Seminar in Finance (4)
MGMT 442. Small Business Management (4)
SCM 350. Decision Making in Supply Chain and Transportation Management (4)

Note: Students interested in taking the CFP examination should take the following as their electives: ACCT 426, 536, 556 and FIN 360.

Financial Planning Concentration
1. ACCT 426. Introduction to Taxation (4)
2. ACCT 556. Estates and Gifts and Other Specialized Taxation Topics (4)
3. FIN 360. Financial Planning Process and Insurance (4)
4. FIN 430. Financial Theory and Practice (4)
5. FIN 435. Investment Analysis (4)
6. FIN 460. Retirement Planning (4)
7. Twenty units chosen from:
   ACCT 536. Corporate and Partnership Taxation (4)
   FIN 355. Business and Asian Culture (4)
   FIN 380. Principles of Real Estate (4)
   FIN 433. International Business Finance (4)
   FIN 523. Security Trading and Analysis (4)
   FIN 546. Student Managed Investment Fund (2)
   FIN 585. Real Estate Finance (4)
   MGMT 442. Small Business Management (4)
   MKTG 430. Professional Selling and Sales Management (4)

Information Systems and Technology Concentration
1. IST 274. Data Base Management and Policies (4)
2. IST 275. Information Networking and Security (4)
3. IST 490. Information Systems Planning and Policy (4)
4. Thirty-two units chosen from one of the following three speciality areas:

Computer Information Systems Speciality Area
1. IST 276. Systems Analysis and Design (4)
2. IST 372. Information Technology (4)
3. IST 378. Problem Solving and Risk Management (4)
4. IST 474. Advanced Data Base Management and Information Assurance (4)
5. IST 475. Advanced Information Networking and Security (4)
6. IST 476. Advanced Systems Analysis and Design (4)
7. Eight units chosen from any IST or CSE major courses.

E-Business Speciality Area
1. IST 150. Web Publishing (4)
2. IST 282. Business Systems I (4)
3. IST 474. Advanced Data Base Management and Information Assurance (4)
4. IST 485. E-Business (4)
5. MKTG 540. E-Marketing (4)
6. Twelve units chosen from:
   ACCT 372. Intermediate Accounting (4)
   ACCT 373. Problem Areas in Intermediate Accounting (4)
   IST 283. Business Systems II (4)
   IST 372. Information Technology (4)
   IST 378. Problem Solving and Risk Management (4)
   IST 475. Advanced Information Networking and Security (4)
   SCM 470. Supply Chain Management (4)

Information Systems Speciality Area
1. IST 372. Information Technology (4)
2. IST 378. Problem Solving and Risk Management (4)
3. Twenty-four units chosen from any IST courses (16 units must be from 300-, 400- and 500-level courses).

International Business Concentration
Students are required to attend a mandatory international business advising session towards the end of the first quarter of the junior year.
1. FIN 433. International Business Finance (4)
2. MGMT 405. Managing Across Borders (4)
3. MKTG 470. International Marketing Management (4)
4. Eight units chosen from:
   ADMN 575. Internship (4) (must have international focus)
   ADMN 590. Seminar in Administration (4) (must involve international travel)
   MGMT 406. International Business Law (4)
   MGMT 526. Global Entrepreneurship (4)
   SCM 445. International Logistics (4)
5. Twelve units of 200-level or higher course work in the same approved foreign language.

Note 1: Approved foreign languages are Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish. For Arabic, ARAB 316 is highly recommended. For French, FREN 409 and 410 are highly recommended. For German, GER 312 is highly recommended. For Spanish, SPAN 302 and 316D are highly recommended. Additional foreign languages may be approved by the Chair of the Department of Management.

Note 2: Students proficient in Arabic, Chinese, French, German, Japanese, Korean, or Spanish languages may receive credit by Examination for the language requirements. Exact times and places of examinations are announced by the Department of World Languages and Literatures; students should make arrangements with the Department of World Languages and Literatures office or chair well in advance.

Note 3: Students proficient in any foreign language at 200-level or equivalent level courses have an option for any or all of their foreign language courses to be waived. Responsibility for determining this proficiency rests with the Assistant Chair of the Management Department, 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 chosen from the electives listed below.

6. MGMT 998. Baccalaureate Reflective Essay (0)
1. Twelve units of regional courses chosen from one of the following categories:

**Regional Specialty**

**Asia**
- ANTH 358. People of the Middle East (4)
- ANTH 362. Peoples of Asia (4)
- FIN 355. Business and Asian Culture (4)
- HIST 435. World War II in the Pacific (4)
- HUM 328. Asian Cultural Traditions (4)
- HUM 375. The World of Islam (4)
- PHIL 375. Non-Western Philosophy (4)
- PSCI 305. East Asian politics (4)
- PSCI 308. Government and Politics of the Middle East (4)
- SSCI 300. Nonwestern World (4)
- SSCI 516. Model Arab League (4) (application and entrance exam required)

**Europe**
- HIST 503. Europe Since 1945 (4)
- MGMT 408. Managing in Europe (4)
- PSCI 304. East European Political Systems (4)
- PSCI 590. Politics of the European Community (4)

**Latin America**
- ANTH 354. Cultures of Mexico and Latin America (4)
- ANTH 356. Cultures of South America (4)
- ECON 540. The Political Economy of Latin America (4)
- HIST 465. Modern Central America (4)
- HIST 466. Foreign Relations of Latin America (4)
- HIST 470. Modern Latin America (4)
- MGMT 407. Comparative Management Systems in the Americas (4)
- SSCI 304. Contemporary Latin America (4)

2. Four units of breadth electives chosen from:
- ANTH 470. Globalization and Culture (4)
- COMM 471. International Communication (4)
- ECON 430. International Economics (4)
- ECON 435. Multinational Corporations (4)
- ECON 450. Global Economy (4)
- PSCI 540. Seminar in Comparative Politics (4)
- PSCI 590. Seminar in International Relations (4)
- SSCI 515. Model United Nations (4) (application and entrance exam required)

**Study Abroad Specialty**

1. Twelve units of upper-division courses in business taken abroad. The courses must be approved by the Global Management Center before the student goes on the study abroad program.

**Marketing Concentration**

1. MKTG 410. Consumer Behavior (4)
2. MKTG 416. Marketing Research (4)
3. MKTG 420. Advertising (4)
4. MKTG 430. Professional Selling and Sales Management (4)
5. MKTG 436. Marketing Decision-Making (4)
6. MKTG 496. Marketing Planning and Strategy (4)
7. Twenty units chosen from:
   - MKTG 415. Product Management (4)
   - MKTG 438. Industrial Marketing (4)
   - MKTG 446. Advertising Campaign (4)
   - MKTG 460. Retailing (4)
   - MKTG 462. Merchandising (4)
   - MKTG 470. International Marketing Management (4)
   - MKTG 520. Integrated Marketing Communication (4)
   - MKTG 525. Sports and Entertainment Marketing (4)
   - MKTG 530. Strategic Entrepreneurship (4)
   - MKTG 540. E-Marketing (4)
   - MKTG 549. Launching the Entrepreneurial Venture (4)
   - MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
   - MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
   - MKTG 560. Services Marketing (4)
   - MKTG 565. Logistics (4)
   - MKTG 572. Import-Export Management (4)
   - MKTG 575. Internship in Marketing (4)
   - MKTG 590. Seminar in Marketing (4)
   - MKTG 595. Independent Study (4)

**Real Estate Concentration**

1. FIN 380. Principles of Real Estate (4)
2. FIN 430. Financial Theory and Practice (4)
3. FIN 432. Financial Institutions and Capital Formation (4)
4. FIN 480. Real Estate Appraisal (4)
5. Four units chosen from:
   - FIN 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 355. Business and Asian Culture (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 460.** Retirement Planning (4)
**FIN 481.** Real Estate Practice (4) (if not taken as a required course)
**FIN 482.** Real Estate Development (4)
**FIN 485.** Legal Aspects of Real Estate (4) (if not taken as a required course)
**FIN 523.** Security Trading and Analysis (4)
**FIN 546.** Student Managed Investment Fund (2)
**FIN 575.** Internship in Finance (4)
**MKTG 430.** Professional Selling and Sales Management (4)

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**MINOR IN ACCOUNTING**

Requirements for a minor in Accounting:

Lower-division requirements (8 units)
1. **ACCT 211.** Introductory Accounting I (4)
2. **ACCT 212.** Introductory Accounting II (4)

Upper-division requirements (20 units)
1. **ACCT 372.** Intermediate Accounting (4)
2. Sixteen units chosen from:
   - **ACCT 315.** Accounting Information Systems (4)
   - **ACCT 347.** Management Accounting and Decision Making (4)
   - **ACCT 373.** Problem Areas in Intermediate Accounting (4)
   - **ACCT 426.** Introduction to Taxation (4)
   - **ACCT 440.** Financial Statement Auditing (4)
   - **ACCT 442.** Internal and Operational Auditing (4)
   - **ACCT 468.** Accounting for Government and Not-for-Profit Organizations (4)
   - **ACCT 536.** Corporate and Partnership Taxation (4)
   - **ACCT 539.** Advanced Accounting (4)
   - **ACCT 541.** Advanced Auditing (4)
   - **ACCT 544.** Accounting Law, Ethics and Institutions (4)
   - **ACCT 547.** Cost Accounting (4)
   - **ACCT 556.** Estates and Gifts and other Specialized Taxation Topics (4)
   - **ACCT 574.** Reporting Issues in Intermediate Accounting (4)
   - **FIN 355.** Business and Asian Culture (4)

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**MINOR IN ENTREPRENEURSHIP**

Requirements for a minor in Entrepreneurship:

1. **MGMT 442.** Small Business Management (4)
2. **MGMT 547.** Managing a Growing Business (4)
3. **MGMT 549.** Launching the Entrepreneurial Venture (4)
4. Twelve units chosen from:
   - **MGMT 455.** Human Resources Management (4)
   - **MGMT 515.** Business Consulting (4)
   - **MGMT 541.** Commercialization Entrepreneurial Innovation (4)
   - **MGMT 543.** New Venture Opportunity Analysis (4)
   - **MGMT 545.** New Venture Resource Requirements (4)
   - **MGMT 575.** Internship in Management (4)
   - **MKTG 460.** Retailing (4)
   - **MKTG 520.** Integrated Marketing Communication (4)
   - **MKTG 530.** Strategic Entrepreneurship (4)

**NOTE:** Students concentrating in Entrepreneurial Management may not minor in Entrepreneurship

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**MINOR IN FINANCE**

Requirements for a minor in Finance:

Lower-division requirements (8 units)
1. **ACCT 211.** Introductory Accounting I (4)
2. **ACCT 212.** Introductory Accounting II (4)

Upper-division requirements (16 units)
1. **FIN 313.** Business Finance (4)
2. **FIN 314.** Corporate Financial Management (4)
3. Eight units chosen from:
   - **FIN 355.** Business and Asian Culture (4)
   - **FIN 360.** Financial Planning Process and Insurance (4)
   - **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)

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**MINOR IN BUSINESS ADMINISTRATION**

Requirements for a minor in Business Administration:

1. **ACCT 211.** Introductory Accounting I (4)
2. **MGMT 230.** Business Law (4)
3. Twenty units of which nine units must be upper-division, usually from one area (i.e., accounting, economics, finance, information management, management, marketing, or supply chain management), chosen in consultation with the associate dean. Twenty units of the minor must be completed at CSUSB.

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**MINOR IN BUSINESS INFORMATION MAPPING**

Requirements for a minor in Business Information Mapping:

1. **IST 101.** Introduction to Information Technology (4)
2. **IST 280.** Information Mapping and Data Visualization (4)
3. **IST 309.** Information Systems and Technology (4)
4. **IST 480.** Advanced Information Mapping and Visualization (4)

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**MINOR IN HUMAN RESOURCES MANAGEMENT**

Requirements for a minor in Human Resources Management:

1. **MGMT 302.** Management and Organizational Behavior (4)
2. **MGMT 455.** Human Resources Management (4)
3. MGMT 456. Developing an Effective Workforce (4)
4. MGMT 457. Industrial and Labor Relations (4)
5. MGMT 458. Fair Employment Practices (4)
6. Four units of upper-division elective course work chosen with the approval of a Management Department advisor.

**NOTE:** Students concentrating in Management may not minor in Human Resources Management.

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**MINOR IN INFORMATION SYSTEMS AND TECHNOLOGY**

**Requirements (24 units)**

**Lower-division requirements (12 units)**
1. IST 101. Introduction to Information Technology (4)
2. Eight units chosen from any IST 100- and 200-level courses.

**Upper-division requirements (12 units)**
1. IST 309. Information Systems and Technology (4)
2. Eight units chosen from any IST 300-, 400- and 500-level courses.

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**MINOR IN INTERNATIONAL BUSINESS**

**Requirements (28 units) (see Addendum for program changes)**

**Requirements for a minor in International Business:**
1. FIN 433. International Business Finance (4)
2. MGMT 405. Managing Across Borders (4)
3. MKTG 470. International Marketing Management (4)
4. Four units chosen from:
   - MGMT 406. International Business Law (4)
   - MGMT 526. Global Entrepreneurship (4)
   - SCM 445. International Logistics (4)
5. Twelve units in one of these specialties:
   - **Foreign Language Specialty**
     1. Twelve units of 200-level or higher course work in the same approved foreign language.
     **Note 1:** Approved foreign languages are Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish. For Arabic, ARAB 316 is highly recommended. For French, FREN 409 and 410 are highly recommended. For German, GER 312 is highly recommended. For Spanish, SPAN 302 and 316D are highly recommended. Additional foreign languages may be approved by the Chair of the Department of Management.
     **Note 2:** Students proficient in Arabic, Chinese, French, German, Japanese, Korean, or Spanish languages may receive credit by examination for the language requirements. Exact times and places of examinations are announced by the Department of World Languages and Literatures; students should make arrangements with the Department of World Languages and Literatures office or chair well in advance.
     **Note 3:** Students proficient in any foreign language at 200-level or equivalent level courses have an option for any or all of their foreign language courses to be waived. Responsibility for determining this proficiency rests with the Chair of the Management Department, 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 chosen from the electives listed below.

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**Regional Specialty**

1. Eight units of electives chosen from one of the following categories:
   - **Global Studies**
     ANTH 470. Globalization and Culture (4)
     COMM 471. International Communication (4)
     ECON 430. International Economics (4)
     ECON 435. Multinational Corporations (4)
     ECON 450. Global Economy (4)
     PSCI 540. Seminar in Comparative Politics (4)
     PSCI 590. Seminar in International Relations (4)
     SSCI 515. Model United Nations (4) (application and examination exam required)
   - **Asia**
     ANTH 358. People of the Middle East (4)
     ANTH 362. Peoples of Asia (4)
     FIN 355. Business and Asian Culture (4)
     HIST 435. World War II in the Pacific (4)
     HUM 328. Asian Cultural Traditions (4)
     HUM 375. The World of Islam (4)
     PHIL 375. Non-Western Philosophy (4)
     PSCI 305. East Asian Politics (4)
     PSCI 308. Government and Politics of the Middle East (4)
     SSCI 300. Nonwestern World (4)
     SSCI 516. Model Arab League (4) (application and examination exam required)
   - **Europe**
     HIST 503. Europe Since 1945 (4)
     MGMT 408. Managing in Europe (4)
     PSCI 304. East European Political Systems (4)
     PSCI 590. Politics of the European Community (4)
   - **Latin America**
     ANTH 354. Cultures of Mexico and Latin America (4)
     ANTH 356. Cultures of South America (4)
     ECON 540. The Political Economy of Latin America (4)
     HIST 465. Modern Central America (4)
     HIST 466. Foreign Relations of Latin America (4)
     HIST 470. Modern Latin American (4)
     MGMT 407. Managing in Europe (4)
     SSCI 304. Contemporary Latin America (4)
     SSCI 515. Model United Nations (4) (application and examination exam required)
   - **Global Studies**
     ADMN 575. Internship (4) (must have international focus)
     ADMN 590. Seminar in Business Administration (4) (must involve international travel)

**Study Abroad Specialty**

1. Twelve units of upper-division courses in business taken abroad. The courses must be approved by the Global Management Center before the student goes on the study abroad program.

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**MINOR IN MANAGEMENT**

**Requirements (28 units)**

**Requirements for a minor in Management:**

**Lower-division requirements (8 units)**
1. MGMT 100. Introduction to Business and Public Administration (4)
2. MGMT 230. Business Law (4)

**Upper-division requirements (20 units)**
1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 330. Legal Environment of Business (4)
3. Twelve units chosen from any MGMT 300-, 400- and 500-level courses.

**NOTE:** Students concentrating in Human Resources Management, Management, Entrepreneurship, or International Business may not minor in Management.
MINOR IN MARKETING

Requirements (24 units)

Requirements for a minor in Marketing:
1. MKTG 305. Marketing Principles (4)
2. MKTG 410. Consumer Behavior (4)
3. Sixteen units chosen from:
   - MKTG 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 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 550. Advanced Sports Marketing Planning and Strategy (4)
   - MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
   - MKTG 560. Services Marketing (4)
   - MKTG 565. Logistics (4)
   - MKTG 572. Import-Export Management (4)
   - MKTG 575. Internship in Marketing (4)
   - MKTG 590. Seminar in Marketing (4)
   - MKTG 595. 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)
2. Four units chosen from:
   - MGMT 302. Management and Organizational Behavior (4)
   - PSYC 302. Management and Organizational Behavior (4)
3. Four units chosen from:
   - PA 380. Introduction to Public Administration (4)
   - PSCI 380. Introduction to Public Administration (4)
   - PA 462. Public Personnel Administration (4)
   - PA 463. Governmental Budgeting (4)
   - PA 472. Administrative Law (4)

MINOR IN REAL ESTATE

Requirements (28 units)

Requirements for a minor in Real Estate:

Lower-division requirements (8 units)
1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (20 units)
1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. FIN 380. Principles of Real Estate (4)
4. Eight units chosen from:
   - FIN 355. Business and Asian Culture (4)
   - FIN 432. Financial Institutions and Capital Formation (4)
   - FIN 480. Real Estate Appraisal (4)
   - FIN 481. Real Estate Practice (4)
   - FIN 485. Legal Aspects of Real Estate (4)
   - FIN 585. Real Estate Finance (4)

MINOR IN SPORTS AND ENTERTAINMENT MARKETING

Requirements (24 units)

Requirements for a minor in Sports and Entertainment Marketing
1. MKTG 525. Sports and Entertainment Marketing (4)
2. MKTG 550. Advanced Sports Marketing Planning and Strategy (4)
3. MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
4. Twelve units chosen from:
   - MGMT 455. Human Resources Management (4)
   - MKTG 305. Marketing Principles (4)
   - MKTG 410. Consumer Behavior (4)
   - MKTG 416. Marketing Research (4)
   - MKTG 420. Advertising (4)
   - MKTG 430. Professional Selling and Sales Management (4)
   - MKTG 475. Public Finance (4)
   - PA 540. Introduction to Tribal Management and Governance (4)

MINOR IN SUPPLY CHAIN MANAGEMENT

Requirements (28 units)

Requirements for a minor in Supply Chain Management:

Lower-division requirement (4 units)
1. SCM 210. Applied Business Statistics (4)

Upper-division requirements (24 units)
1. SCM 304. Principles of Supply Chain Management (4)
2. SCM 305. Enterprise Resource Planning (4)
3. SCM 350. Decision Making in Supply Chain and Transportation Management (4)
4. SCM 470. Supply Chain Management (4)
5. SCM 480. Quality Management (4)
6. SCM 490. Strategic Management in Supply Chain and Transportation (4)

DEPARTMENTAL HONORS

Students majoring in administration are eligible to receive departmental honors if the following conditions are met:
1. At least four courses in the concentration are completed at this university;
2. A minimum grade point average of 3.5 for all courses satisfying the requirements for the major;
3. One of the following:
   A. A minimum grade point average of 3.8 for all courses satisfying the requirements of the concentration;
   B. A grade of "A" (4.0) in a specific College of Business and Public Administration 595. Independent Study course, developed for honors consideration;
C. Author or coauthor an article accepted for publication in a leading scholarly journal in their field.

The honor is awarded by the faculty of the department, and students who wish to receive this distinction should initiate the process by submitting a letter of application to the appropriate department office at the beginning of their senior year.

CBPA HONORS PROGRAM

Requirements for the CBPA Honors Program (24 units)

1. A 3.5 grade point average in all coursework;
2. Student must be an Administration major;
3. Junior status;
4. Minimum of twenty units chosen from Honors sections of:
   - FIN 313 Business Finance
   - FIN 314 Corporate Financial Management
   - IST 309 Information Systems and Technology
   - MGMT 302 Management and Organizational Behavior
   - MGMT 306 Expository Writing for Administration
   - MKTG 305 Principles of Marketing
   - PA 315 Government-Business Relations
   - SCM 304 Principles of Supply Chain Management
5. MGMT 490 Strategic Management

Public Administration students should note: Department approval required to take CBPA Honors courses in place of the following Public Administration upper-division core courses: ECON 475, PA 307, PSCI 528. Public Administration students must take PA 472 as a free elective.

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. Candidates must 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. See Page 60 for additional certificate information.

Accounting Certificate

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)

3. 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 442 Internal and Operational Auditing (4)
   ACCT 468 Accounting for Government and Not-for-Profit Organizations (4)
   ACCT 536 Corporate and Partnership Taxation (4)
   ACCT 539 Advanced Accounting (4)
   ACCT 541 Advanced Auditing (4)
   ACCT 544 Accounting Law, Ethics and Institutions (4)
   ACCT 556 Estates and Gifts and other Specialized Taxation Topics (4)
   ACCT 574 Reporting Issues in Intermediate Accounting (4)
   ACCT 590 Seminar in Accounting (4)

Cyber Security Certificate

Students completing the Cyber Security Certificate meet the Committee on National Security Systems (CNSS) standards for Information Systems Security Professionals (CNSS 4011) and Senior System Managers (CNSS 4012).

Certificate Requirements (24 units)

1. IST 101 Introduction to Information Technology (4)
2. IST 309 Information Systems and Technology (4)
3. IST 410 Information Systems Security Professionals (4)
4. IST 415 Security Systems Management (4)
5. IST 490 Information Systems Planning and Policy (4)
6. IST 511 Cyber Defense (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 Developing an Effective Workforce (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. IST 101 Introduction to Information Technology (4)
2. Twelve units chosen from any IST 100- and 200-level courses.

Upper-division requirements (16 units)

1. IST 309 Information Systems and Technology (4)
2. Twelve units chosen from any IST 300-, 400- and 500-level courses.

Supply Chain Management Certificate

Certificate Requirements (32 units)

1. SCM 210 Applied Business Statistics (4)
2. SCM 304 Principles of Supply Chain Management (4)
3. SCM 305 Enterprise Resource Planning (4)
4. SCM 350 Decision Making in Supply Chain and Transportation Management (4)
5. SCM 405 Advanced Enterprise Systems (4)
6. SCM 470. Supply Chain Management (4)
7. SCM 480. Quality Management (4)
8. SCM 490. Strategic Management in Supply Chain and Transportation (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)

575. Internship
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: senior standing preferred; consent of instructor and the departments internship coordinator. (4 units)

580. Doing Business Internationally
Introduction to and comparison of the distinctive characteristics of the business environment, business operations, financial institutions, regulations, and culture of different regions of the world. Includes study abroad as the conclusion of the course.
- Asia. Formerly a topic under ADMN 590. (2 or 4 units)
- India. Formerly a topic under ADMN 590. (2 or 4 units)
- Europe. Formerly a topic under ADMN 590. (2 or 4 units)
- Africa. (2 or 4 units)
- Latin America. (2 or 4 units)
- Middle East. (2 or 4 units)
- Korea (2 or 4 units)

590. Seminar in Administration
Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. (2-4 units)
AEROSPACE STUDIES (AIR FORCE ROTC)

Aerospace Studies Office
Temporary Bldg, Room 105
(909) 537-5440 afrotc.csus.edu

Aerospace Studies Program

FACULTY: Lt Col John W. Henderson, Capt Stephen S. Mahoney, Capt Joseph G. Streets

Air Force ROTC is a college-level program designed to select and train highly qualified men and women to become commissioned Air Force officers. After graduation from college and completion of all Air Force ROTC requirements, cadets are commissioned as second lieutenants in the U.S. Air Force. Typical service is four years; however, service duration for pilots, navigators and nurses is longer. These individuals serve in a broad range of careers to include actual flying, engineering, administration and a host of other fields, depending on the individual's academic background.

To enter Air Force ROTC, an individual must have at least two years of college left, which may include graduate study. In addition, the individual must be a United States citizen prior to entering the last two years of the program, be able to pass an Air Force medical exam, be of high moral character and be in good academic standing in school. Entry into the last two years of the program is on a competitive basis.

Students are required to graduate with a bachelor's degree, in any academic major, and complete one of the two program options. AFROTC offers 2, 3, and 4-year scholarships of up to $15,000, but scholarships are not required to participate in the program. AFROTC cadets under scholarship and all juniors and seniors receive a $300-$500 per month tax-free stipend, plus a $900 textbook allowance each year. No military commitment is incurred until entering the last two years of the program (Professional Officer Course) or accepting an AFROTC scholarship.

Classes consist of one hour of academics plus two hours of leadership laboratory for freshmen and sophomores. Juniors and seniors will have three hours of academics plus two hours of leadership laboratory. The academic hours earned can normally be counted as elective credit toward graduation. All AFROTC classes and laboratories are held on Fridays to better accommodate students commuting from other colleges and universities.

More information is available here: www.afrotc.com and www.DoSomethingAmazing.com

AEROSPACE STUDIES PROGRAM

Program Requirements

Option I (Four Year Program)

Program Requirements (24 units)

The four year program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires university course enrollment and consultation with the AFROTC admissions officer in the department. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

General Military Course (GMC)
1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 101. The Air Force Today I (1)
3. AS 102. The Air Force Today II (1)
4. AS 103. The Air Force Today III (1)
5. AS 201. The Development of Air Power I (1)
6. AS 202. The Development of Air Power II (1)
7. AS 203. Air Force Ethics (1)

Field Training
A four-week, noncredit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required before continuing in the program.

Professional Officer Course (POC)
1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

Option II (Two Year Program)

Program Requirements (18 units)

Application for the two-year program is made in the fall and winter quarters for Field Training attendance, during the summer, and prior to entry into the POC. Field Training selection is based on a number of highly competitive criteria. For an application and selection criteria contact the department. The two year program is available to students with two years of undergraduate/graduate study remaining. The program consists of two parts: Field Training and the Professional Officer Course (academics and laboratory).

Field Training
Prerequisite for entry in the two-year program. A five-week, noncredit course conducted at an Air Force base during the summer before entry into the Professional Officer Course. Successful completion is required before continuing in the program.

Professional Officer Course (POC)
1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

COURSE OFFERINGS IN
AEROSPACE STUDIES (AS)

90. Leadership Laboratory
Open only to enrolled Air Force ROTC cadets. Cadets must be concurrently enrolled in aerospace studies courses. Designed to allow students to apply leadership techniques and military skills taught in classroom and to develop their confidence as future military officers. 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. Air Force Ethics
In-depth discussion of values and public expectations as they relate to military officers. (1 unit)

Upper Division

301. Air Force Leadership and Management I
Principles and functions of management and leadership. (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)

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)
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. 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 on Page 165.

### B.A. IN AMERICAN STUDIES

**Requirements (72 units)**

**Total units required for graduation: 180**

- Lower-division prerequisites (12 units)
  1. ENG 140. Major American Authors (4)
  2. HIST 146. American Civilization (4)
  3. PSCI 203. American Government (4)

**Note:** HIST 146. American Civilization and PSCI 203. American Government fulfill categories D-1 and D-2 respectively in general education requirements. These units cannot be counted in more than one category.

**Requirements for the B.A. in American Studies:**

- **Upper-division requirements (72 units)**
  1. **Concepts and Methods (8 units)**
     1. AMST 300. Introduction to American Studies (4)
     2. HUM 344. Ideas in American Culture (4)
  2. **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)

**Note:** Students may receive credit for only one of the following and may apply that credit in either the American Arts Category or the Historical and Social Contexts Category but not both:

- ANTH 323. Native North American Art
- ART 323. Native North American Art

**A. Historical and Social Contexts (24 units)**

1. **Historical Periods**
   - Twelve units chosen from:
     1. HIST 350. The American Colonies, 1607-1783 (4)
     2. HIST 351. The Evolution of American Democracy, 1783-1840 (4)
     3. HIST 354. Civil War and Reconstruction (4)
     4. HIST 356. The United States, 1877-1917 (4)
     5. HIST 357. The United States, 1917-1945 (4)

2. **Social Contexts**
   - Twelve units chosen 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)

     - Women and Minorities in America
       - ANTH 305. North American Prehistory (4)
       - ANTH 323. Native North American Art (4)
       - ANTH 351. Indians of North America (4)
       - ART 323. Native North American Art (4)
       - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)

**C. Historical and Social Contexts (24 units)**

1. **Political Thought**
   - 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)
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)
1. Four units chosen from: (Prerequisite to upper-division American Literature courses.)
   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 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 C2;
   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)
1. Four units chosen from:
   AMST 590. Special Topics in American Studies (4)
   ENG 515. Senior Seminar in Literature (with appropriate topic approved by American Studies coordinator) (4)

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**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)
ANTHROPOLGY

Department of Anthropology
Social and Behavioral Sciences Building, Room 327J
(909) 537-5502  anthropology.csusb.edu

Bachelor of Arts
Anthropology

Minor
Anthropology

Certificate Programs
Applied Cultural Anthropology
Archaeology
Latin American Studies
Museum Studies

FACULTY:  Russell Barber, Frances Berdan (Emeritus),
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 chal-
lenge of desert life for the Australian Aborigine and the problems of
contemporary ghetto existence are of equal interest to the anthro-
pologist, and courses in these topics and world ethnography are of-
erred 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 an-
thropology, 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:

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 chosen from:
   ANTH 300. Archaeology (4)
   ANTH 302. African Archaeology (4)
   ANTH 303. Prehistory of the Middle East and Europe (4)
   ANTH 305. North American Prehistory (4)
   ANTH 306. Aztecs, Maya and Their Predecessors (4)
   ANTH 307. Incas and Their Predecessors (4)
   May choose only one of the following two courses:
   ANTH 312. Historical Archaeology (4)
   HIST 312. Historical Archaeology (4)
   ANTH 315. Archaeology of the Southwest and
   California (4)
   May choose only one of the following two courses:
   ANTH 323. Native North American Art (4)
   ART 323. Native North American Art (4)
   May choose only one of the following two courses:
   ANTH 324. Pre-Columbian Art (4)
   ART 324. Pre-Columbian Art (4)
6. Biological Anthropology
   Eight units chosen from:
   ANTH 325. Human Biological Variation and the Concept of
   Race (4)
   ANTH 326. Human Origins (4)
   ANTH 327. Primate Evolution and Ecology (4)
   ANTH 328. Forensic Anthropology and Crime (4)
7. Laboratory Analysis
   Five units chosen from:
   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 culture areas
   Eight units chosen from:
   ANTH 351. Indians of North America (4)
   ANTH 352. Indians of the Southwest (4)
   ANTH 354. Cultures of Mexico and Central America (4)
   ANTH 356. Cultures of South America (4)
   ANTH 357. African Societies (4)
   ANTH 358. Peoples of the Middle East (4)
   ANTH 360. Peoples of Australia (4)
   ANTH 361. Peoples of Micronesia, Melanesia and
   Polynesia (4)
   ANTH 362. Peoples of Asia (4)
   ANTH 365. Asian American Cultures (4)
9. Anthropology theory
   Twelve units, of which at least eight units must be from 400-level
   courses, chosen from:
   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)
   May choose only one of the following two courses:
   ANTH 375. Museum Methods (4)
   HIST 375. Museum Methods (4)
   May choose only one of the following two courses:
   ANTH 376. Exhibit Design (4)
   HIST 376. Exhibit Design (4)
   ANTH 466. Anthropology of Health, Illness and Healing (4)
   ANTH 470. Globalization and Culture (4)
   ANTH 472. Colonial and Postcolonial Anthropology (4)
   ANTH 475. Cultural Ecology (4)
   ANTH 480. Magic, Religion and Science (4)
   ANTH 485. Applied Anthropology and Social Policy (4)
   ANTH 492. Economic Anthropology (4)
   ANTH 493. Urban Anthropology (4)
10. Linguistic Anthropology
   Four units chosen from:
   ANTH 380. Gender and Language (4)
   ANTH 388. Language and Culture (4)
11. Four additional upper-division units in anthropology (may be from
   a related field, as approved by an advisor).
MINOR IN ANTHROPOLOGY

Requirements (28 units)

Requirements for a minor in Anthropology:

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. Twenty upper-division units chosen in consultation with an advisor.

DEPARTMENTAL HONORS

Students majoring in anthropology are eligible to receive honors in anthropology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. A grade point average of at least 3.5 in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of ANTH 597. Senior Honors Project, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have responsibility for evaluation of the completed thesis paper.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 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)
   - PSYC 210. Psychological Statistics (5)
   - SCM 210. Applied Business Statistics (4)
3. ANTH 485. Applied Anthropology and Social Policy (4)
4. ANTH 578. Internship in Applied Anthropology (2-5) for a total of (8)
5. A minimum of twelve units of upper-division social and cultural anthropology courses chosen in consultation with an advisor.

Certificate in Archaeology

Certificate Requirements (35 units)

1. ANTH 300. Archaeology (4)
2. Five units chosen from:
   - ANTH 320. Archaeological Survey and Excavation (5)
   - ANTH 577. Internship in Archaeology (5)
3. Five units chosen from:
   - ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)
   - ANTH 321. Archaeological Laboratory Analysis (5)
4. Eight units chosen from:
   - ANTH 302. African Archaeology (4)
   - ANTH 303. Prehistory of the Middle East and Europe (4)
   - ANTH 305. North American Prehistory (4)
   - ANTH 306. Aztecs, Maya and Their Predecessors (4)
   - ANTH 307. Incas and Their Predecessors (4)

May choose only one of the following two courses:

   - ANTH 312. Historical Archaeology (4)
   - HIST 312. Historical Archaeology (4)
   - ANTH 315. Archaeology of the Southwest and California (4)
5. GEOG 201. Map Interpretation (4)
6. GEOG 202. Introduction to Geographic Information Systems and Cartography (5)
7. A minimum of four units chosen from:
   - GEOG 308. Advanced Geographic Information Systems (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. Thirty-two units chosen from the following: (No more than twelve units may be taken from any one discipline.)
   - ANTH 306. Aztecs, Maya and Their Predecessors (4)
   - ANTH 307. Incas and Their Predecessors (4)

May choose only one of the following two courses:

   - ANTH 324. Pre-Columbian Art (4)
   - ART 324. Pre-Columbian Art (4)
   - ANTH 354. Cultures of Mexico and Central America (4)
   - ANTH 356. Cultures of South America (4)
   - ART 328. Mexican Art (4)
   - FLAN 320. Masterpieces of Literature (when topic pertains to Latin America) (4)
   - GEOG 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)

Certificate in Museum Studies

Certificate Requirements (34 units)

1. Four units chosen from:
   - ANTH 316. Archival Practices (4)
   - HIST 316. Archival Practices (4)
2. Four units chosen from:
   - ANTH 318. Museum and Archive Management (4)
   - HIST 318. Museum and Archive Management (4)
3. Four units chosen from:
   ANTH 375. Museum Methods (4)
   HIST 375. Museum Methods (4)

4. Four units chosen from:
   ANTH 376. Exhibit Design (4)
   HIST 376. Exhibit Design (4)

5. ANTH 576. Internship in Museum Studies (2-5) for a total of (8)

6. ART 345. Gallery Management (2)

7. A minimum of eight units of electives, chosen from one of the following three groups of courses (A, B or C):

   **Group A**
   
   ANTH 300. Archaeology (4)
   ANTH 302. African Archaeology (4)
   ANTH 303. Prehistory of the Middle East and Europe (4)
   ANTH 305. North American Prehistory (4)
   ANTH 306. Aztecs, Maya and Their Predecessors (4)
   ANTH 307. Incas and Their Predecessors (4)
   
   May choose only one of the following two courses:
   
   ANTH 312. Historical Archaeology (4)
   HIST 312. Historical Archaeology (4)
   
   ANTH 315. Archaeology of the Southwest and California (4)
   ANTH 320. Archaeological Survey and Excavation (5)
   ANTH 321. Archaeological Laboratory Analysis (5)
   
   May choose only one of the following two courses:
   
   ANTH 323. Native North American Art (4)
   ART 323. Native North American Art (4)
   
   May choose only one of the following two courses:
   
   ANTH 324. Pre-Columbian Art (4)
   ART 324. Pre-Columbian Art (4)

   **Group B**
   
   ANTH 351. Indians of North America (4)
   ANTH 352. Indians of the Southwest (4)
   ANTH 354. Cultures of Mexico and Central America (4)
   ANTH 357. African Societies (4)
   ANTH 358. Peoples of the Middle East (4)
   ANTH 360. Peoples of Australia (4)
   ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
   ANTH 362. Peoples of Asia (4)
   ANTH 365. Asian American Cultures (4)
   ART 221. Art History: Prehistoric Times through the Middle Ages (4)
   ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
   ART 223. Art History: Renaissance to the Present (4)
   ART 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 316. Arts of the Ancient Near East and Egypt (4)
   ART 321. Renaissance Art (4)
   
   May choose only one of the following two courses:
   
   ANTH 323. Native North American Art (4)
   ART 323. Native North American Art (4)
   
   May choose only one of the following two courses:
   
   ANTH 324. Pre-Columbian Art (4)
   ART 324. Pre-Columbian Art (4)
   
   ART 327. Baroque and Rococo Art (4)
   ART 328. Mexican Art (4)
   ART 329. Chicano Art (4)

   **Group C**
   
   ART 410. Studies in Art History: Renaissance (4)
   ART 423. Nineteenth Century European Art (4)
   
   Any upper-division history course except HIST 318, 375, 376, 395, 396, 399, 575, 589 and 595.

COURSES OFFERED IN
ANTHROPOLOGY  (ANTH)

**Lower Division**

100. Introduction to Anthropology: Human Evolution
   Human biological and social evolution through time. (GE=D4)
   (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)
   (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 forensics), reviews of the fossil evidence for primate and human evolution, and exercises in genetics. Three hours laboratory. Pre-requisite 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)

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)
316. Archival Practices
Applied approach to archival methods, the accessing, de-accessioning, cataloging, calendar composition, storage of objects and archival materials, loan procedures, policies and legal issues. Field trips and projects required. Also offered as HIST 316. Students may not receive credit for both. (4 units)

318. Museum and Archive Management
General overview of the management of museum and archival collections. Field trips and projects required. Also offered as HIST 318. Students may not receive credit for both. (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=G2) (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. One-day zoo trip required. (4 units)

328. Forensic Anthropology and Crime
Techniques of biological anthropology as applied to the investigation of crime. (4 units)

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
Crosstcultural 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. (4 units)

351-362. World Cultures
Emphasis on major problems of current interest to the cultural anthropologist. Topics include language affiliations and culture, history of the area, the local populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

351. Indians of North America (4 units)
352. Indians of the Southwest (4 units)
354. Cultures of Mexico and Central America (4 units)
356. Cultures of South America (4 units)
357. African Societies (4 units)
358. Peoples of the Middle East (4 units)
360. Peoples of Australia (4 units)
361. Peoples of Micronesia, Melanesia and Polynesia (4 units)
362. Peoples of Asia (4 units)
365. Asian American Cultures
Asian American cultural identity issues and concerns such as stereotyping, race issues, and the diverse ways in which Asian Americans retain, modify and reinvent Asian cultural traditions in American society. (4 units)

366. Filipino Cultural Expressions
Filipino American experiences expressed through arts and dance rituals and their culture. May be repeated for credit as topics change for a maximum of eight units. One hour lecture and two hours activity. Graded credit/no credit. (2 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. Globalization and Culture
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. (2-5 units)

576. Internship in Museum Studies
Supervised work in public or private museums 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. (2-5 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. (2-5 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. (2-5 units)

585. Fieldwork in Cultural Anthropology
Supervised design, execution and analysis of an individualized ethnographic field project. Prerequisite: consent of instructor. (4 units)
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. (2-5 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 377.
ARABIC

Department of World Languages and Literatures
University Hall, Room 314
(909) 537-5847  flan.csusb.edu

Bachelor of Arts
Arabic Language, Literature and Culture

Minor
Arabic

Certificate
Arabic

COORDINATOR: Dany Doueiri

The study of Arabic at CSUSB combines training in language, literature, culture and contemporary affairs of the Arab world. It develops students’ understandings, perspectives and attitudes of Arab-speaking cultures and people. The program is carefully crafted to allow participants to enrich and broaden their academic training by drawing from disciplines related to and in high-need in the Arab World such as Anthropology, Communication, Comparative Literature, Computer Science, Criminal Justice, Health Care, History, International Business and Law, Linguistics, Political Science, Social Studies, etc.

A major in Arabic provides a strong and competitive professional background and opens career opportunities especially when combined with an appropriate second major, a teaching credential or a specialized graduate degree.

Graduates with Arabic have found employment in education, international business, foreign trade and banking, government services, science and technology, and the tourism industry. Some careers require additional education or experience yet many positions are available for graduates regardless of academic discipline.

B.A. IN ARABIC LANGUAGE, LITERATURE AND CULTURE

Requirements (70 units)  (see Addendum for program changes)

Total units required for graduation: 180

Requirements for the B.A. in Arabic Language, Literature and Culture:

1. Proficiency in Arabic equal to that of ARAB 103 or equivalent.
2. No more than 32 units in Arabic can be transferred from other institutions.

Lower-division (12 units)

1. Twelve units chosen from:
   - ARAB 201. Intermediate Arabic I (4)
   - ARAB 202. Intermediate Arabic II (4)
   - ARAB 203. Intermediate Arabic III (4)
   - ARAB 204. Intermediate Arabic IV (4)
   - ARAB 205. Intermediate Arabic V (4)
   - ARAB 212. Arabic Composition (4)
   - ARAB 214. Arabic Conversation (4)
   - ARAB 216. Introduction to Literary Texts (4)

Upper-division (minimum of 12 units)

1. Twelve units chosen from:
   - ARAB 301. Advanced Arabic I (4)
   - ARAB 302. Advanced Arabic II (4)
   - ARAB 303. Advanced Arabic III (4)
   - ARAB 304. Advanced Arabic IV (4)
   - ARAB 305. Advanced Arabic V (4)
   - ARAB 314. Advanced Arabic Conversation (4)
   - ARAB 316. Arabic for the Professions (4)
   - ARAB 401. Fourth Year Arabic I (4)
   - ARAB 402. Fourth Year Arabic II (4)
   - ARAB 403. Fourth Year Arabic III (4)
   - ARAB 404. Fourth Year Arabic IV (4)
   - ARAB 405. Fourth Year Arabic V (4)

Assessment (4 units)

1. ARAB 295. Intermediate Assessment (2)
2. ARAB 496. Senior Assessment (2)

Electives (42 units)

1. Twenty-two units chosen from (but not selected from above):
   - ARAB 210. Arabic Calligraphy (2)
   - ARAB 211. Pronunciation Practice (2)
   - ARAB 304. Advanced Arabic IV (4)
   - ARAB 305. Advanced Arabic V (4)
   - ARAB 312. Advanced Arabic Composition (4)
   - ARAB 314. Advanced Arabic Conversation (4)
   - ARAB 316. Arabic for the Professions (4)
   - ARAB 320. Arabic Phonetics (4)
   - ARAB 370. Arab Film and Culture (4)
   - ARAB 399. Community Service Project (1-2) (may be repeated up to 6 units)
   - ARAB 404. Fourth Year Arabic IV (4)
   - ARAB 405. Fourth Year Arabic V (4)
   - ARAB 470. Contemporary Issues in Arab Culture (4) (may be repeated as topics change)
   - ARAB 471. Media in the Arab World (4)
   - ARAB 480. Special Topics in Classical Islamic Texts (4) (may be repeated as topics change)
   - ARAB 481. Special Topics in Contemporary Arabic Literature (4) (may be repeated as topics change)
   - ARAB 575. Internship (1-4) up to a total of (6)
   - FLAN 312. Pedagogies for Foreign Language Teaching (4)
   - FLAN 350. Language Acquisition and Early Field Experience for Future Teachers (4)
   - HUM 580. International Experience (1-6)

2. Twenty units chosen from:

Any upper-division elective course not selected above:

May choose any two courses below if not taken above.

ARAB 201. Intermediate Arabic I (4)
ARAB 202. Intermediate Arabic II (4)
ARAB 203. Intermediate Arabic III (4)
ARAB 204. Intermediate Arabic IV (4)
ARAB 205. Intermediate Arabic V (4)
ARAB 212. Arabic Composition (4)
ARAB 214. Arabic Conversation (4)
ARAB 216. Introduction to Literary Texts (4)

May choose only one of the following three courses:

ANTH 590. Selected Topics in Anthropology: Muslim Women in Media and Society (4)
COMM 550. Muslim Women in Media and Society (4)
GSS 390. Topics in Gender and Sexuality Studies: Muslim Women in Media and Society (4)

ANTH 358. People of the Middle East (4)
COMM 366. Topics in Intercultural Communication (4)
COMM 471. International Communication (4)
ECON 430. International Economics (4)
ECON 435. Multinational Corporations (4)
ECON 450. Global Economy (4)
ENG 319. Studies in Literary Diversity (4) (when the topic is Middle Eastern Literatures) (4)
**Lower-division requirements (12 units)**

1. Twelve units chosen from:
   - ARAB 201. Intermediate Arabic I (4)
   - ARAB 202. Intermediate Arabic II (4)
   - ARAB 203. Intermediate Arabic III (4)
   - ARAB 204. Intermediate Arabic IV (4)
   - ARAB 205. Intermediate Arabic V (4)
   - ARAB 212. Arabic Composition (4)
   - ARAB 214. Conversation in Arabic (4)
   - ARAB 216. Introduction to Arabic Literary Texts (4)
   - ARAB 290. Arabic Literature in Translation (4)

**Upper-division requirements (20 units)**

1. Twelve units chosen from:
   - ARAB 301. Advanced Arabic I (4)
   - ARAB 302. Advanced Arabic II (4)
   - ARAB 303. Advanced Arabic III (4)
   - ARAB 304. Advanced Arabic IV (4)
   - ARAB 305. Advanced Arabic V (4)
   - ARAB 312. Advanced Arabic Composition (4)
   - ARAB 314. Advanced Arabic Conversation (4)
   - ARAB 316. Arabic for the Professions (4)
   - ARAB 370. Arabic Film and Culture (4)
   - ARAB 399. Community Service Project (2)
   - ARAB 401. Fourth Year Arabic I (4)
   - ARAB 402. Fourth Year Arabic II (4)
   - ARAB 403. Fourth Year Arabic III (4)
   - ARAB 404. Fourth Year Arabic IV (4)
   - ARAB 405. Fourth Year Arabic V (4)
   - ARAB 470. Contemporary Issues in Arab Culture (4) (may be repeated as topics change)
   - ARAB 471. Media in the Arab World (4)
   - ARAB 480. Special Topics in Classical Islamic Texts (4) (may be repeated as topics change)
   - ARAB 481. Special Topics in Contemporary Arabic Literature (4) (may be repeated as topics change)
   - ARAB 575. Internship (1-4) up to a total of (4)

2. Eight units chosen from:
   - ANTH 358. People of the Middle East (4)
   - May choose only one of the following three courses:
     - ANTH 590. Selected Topics in Anthropology: Muslim Women in Media and Society (4)
     - COMM 550. Muslim Women in Media and Society (4)
     - GSS 390. Topics in Gender and Sexuality Studies: Muslim Women in Media and Society (4)
   - COMM 366. Topics in Intercultural Communication (4)
   - COMM 471. International Communication (4)
   - ECON 430. International Economics (4)
   - ECON 435. Multinational Corporations (4)
   - ECON 450. Global Economy (4)
   - ENG 319. Studies in Literary Diversity (4) (when the topic is Middle Eastern Literatures) (4)
   - FIN 433. International Business Finance (4)
   - FIN 534. Export-Import Financing (4)
   - FLAN 400. Readings for the Disciplines (1) (may be repeated as topics change)
   - FLAN 555. Independent Study (4)
   - FREN 370. Francophone Film and Culture (4) (with permission)
   - FREN 461. Contemporary Issues in the Francophone World (4) (with permission)
   - HIST 383. Classical Islamic Civilization (4)
   - HIST 384. Modern Middle East (4)
   - HIST 485. Arab-Israeli Conflict (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)

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**MINOR/CERTIFICATE IN ISLAMIC AND MIDDLE EASTERN STUDIES**

Students receiving a minor, certificate or B.A. in Arabic Language, Literature and Culture may also be able to earn a minor or certificate in Islamic and Middle Eastern studies. See Page 250 to review the requirements.

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**MINOR IN ARABIC**

Requirements (32 units) (see Addendum for program changes)

### Requirements for a minor in Arabic:

1. Proficiency in Arabic equal to ARAB 103 or equivalent.

Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination. Students with no prior exposure to Arabic need to take ARAB 101, 102, and 103 which will not count toward the 32-unit requirement for the minor.
HIST 491. Nationalism and Conflict in the Middle East (4)
HIST 492. U.S. Media and the Middle East (4)
HIST 495. Politics of Oil (4)
HUM 375. World of Islam (4)
MGMT 324. International Environmental Management (4)
MGMT 405. Managing Across Borders (4)
MGMT 406. International Business Law (4)
MKTG 470. International Marketing Management (4)
MKTG 572. Import-Export Management (4)
PSCI 308. Government and Politics in the Middle East (4)
SSCI 515. Model United Nations (4) (if Arab country is selected)
SSCI 516. Model Arab League (4)
SPAN 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (4) (with permission)

Other courses related to the Arab world, to be approved in advance by the Arabic program coordinator or department chair. Native speakers of Arabic or those with advanced proficiency may receive credit by examination for some classes.

CERTIFICATE PROGRAM (see Addendum for program changes)

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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Arabic

Certificate Requirements (32 units)

1. Proficiency in Arabic equal to ARAB 103 or equivalent. Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination. Students with no prior exposure to Arabic need to take ARAB 101, 102, and 103 which will not count toward the 32-unit requirement for the certificate.

Lower-division requirements (12 units)

1. Twelve units chosen from:
   - ARAB 201. Intermediate Arabic I (4)
   - ARAB 202. Intermediate Arabic II (4)
   - ARAB 203. Intermediate Arabic III (4)
   - ARAB 204. Intermediate Arabic IV (4)
   - ARAB 205. Intermediate Arabic V (4)
   - ARAB 212. Arabic Composition (4)
   - ARAB 214. Conversation in Arabic (4)
   - ARAB 216. Introduction to Arabic Literary Texts (4)
   - ARAB 290. Arabic Literature in Translation (4)

Upper-division requirements (20 units)

1. Twelve units chosen from:
   - ARAB 301. Advanced Arabic I (4)
   - ARAB 302. Advanced Arabic II (4)
   - ARAB 303. Advanced Arabic III (4)
   - ARAB 304. Advanced Arabic IV (4)
   - ARAB 305. Advanced Arabic V (4)
   - ARAB 312. Advanced Arabic Composition (4)
   - ARAB 370. Advanced Arabic Film and Culture (4)
   - ARAB 371. Advanced Arabic Conversation (4)
   - ARAB 372. Advanced for the Professions (4)
   - ARAB 390. Community Service Project (2)
   - ARAB 401. Fourth Year Arabic I (4)
   - ARAB 402. Fourth Year Arabic II (4)
   - ARAB 403. Fourth Year Arabic III (4)
   - ARAB 404. Fourth Year Arabic IV (4)
   - ARAB 405. Fourth Year Arabic V (4)
   - ARAB 470. Contemporary Issues in Arab Culture (4) (may be repeated as topics change)
   - ARAB 471. Media in the Arab World (4)
   - ARAB 480. Special Topics in Classical Islamic Texts (4) (may be repeated as topics change)
   - ARAB 481. Special Topics in Contemporary Arabic Literature (4) (may be repeated as topics change)
   - ARAB 575. Internship (1-4) up to a total of (4)

2. Eight units chosen from:
   - ANTH 358. People of the Middle East (4)
   - FREN 370. Francophone Film and Culture (4) (with permission)
   - FREN 461. Contemporary Issues in the Francophone World (4) (with permission)
   - HIST 383. Classical Islamic Civilization (4)
   - HIST 384. Modern Middle East (4)
   - HIST 485. Arab-Israeli Conflict (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)
   - HIST 491. Nationalism and Conflict in the Middle East (4)
   - HIST 492. U.S. Media and the Middle East (4)
   - HIST 495. Politics of Oil (4)
   - HUM 375. World of Islam (4)
   - MKTG 324. International Environmental Management (4)
   - MKTG 405. Managing Across Borders (4)
   - MKTG 406. International Business Law (4)
   - MKTG 470. International Marketing Management (4)
   - MKTG 572. Import-Export Management (4)
   - PSCI 308. Government and Politics in the Middle East (4)
   - SSCI 515. Model United Nations (4) (if Arab country is selected)
   - SSCI 516. Model Arab League (4)
   - SPAN 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (4) (with permission)

Other courses related to the Arab world, to be approved in advance by the Arabic program coordinator or department chair. Native speakers of Arabic or those with advanced proficiency may receive credit by examination for some classes.
BUCS 122

Prerequisite: ARAB 203 or consent of instructor. (4 units)

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. (4 units)

103. College Arabic III
Emphasis on oral and writing competencies at the intermediate level in a cultural context. Formerly ARAB 150 and a topic under FLAN 150. Prerequisite: ARAB 102. (GE=C3) (4 units)

104. College Arabic IV
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Prerequisite: ARAB 103 or consent of instructor. (4 units)

105. College Arabic V
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Graded credit/no credit. Prerequisite: ARAB 104 or consent of instructor. (4 units)

170. Beginning Arabic Conversation
Practice of oral Arabic with emphasis on familiar surroundings, immediate needs, and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit. (2 units)

201. Intermediate Arabic I
First course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 103 or equivalent. (GE=C3) (4 units)

202. Intermediate Arabic II
Second course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 201 or equivalent. (GE=C3) (4 units)

203. Intermediate Arabic III
Third course in an intermediate-level sequence in Arabic. Develops students' oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures. Prerequisite: ARAB 202 or equivalent. (GE=C3) (4 units)

204. Intermediate Arabic IV
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Graded credit/no credit. Prerequisite: ARAB 203 or consent of instructor. (4 units)

205. Intermediate Arabic V
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Prerequisite: ARAB 204 or consent of instructor. (4 units)

210. Arabic Calligraphy
Introduction to Arabic calligraphy, its history and development. Familiarity with the major styles and hands-on application of one or two styles per term. Students need to purchase their own supplies. May be repeated once as styles change. Prerequisite: ARAB 102 or equivalent. (2 units)

211. Pronunciation Practice
Traditional recitation methods to improve pronunciation and articulation of Arabic. May include poetry, passages from the Qur'an, and traditional songs. Prerequisite: ARAB 101 or consent of instructor. (2 units)

212. Arabic Composition
Comprehensive review of the principles of Arabic grammar, emphasizing their application to composition. Prerequisite: ARAB 103 or equivalent. (4 units)

214. Conversation in Arabic
Practice of oral Arabic including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Prerequisite: ARAB 103 or equivalent. (GE=C3) (4 units)

216. Introduction to Arabic Literary Text
Techniques of literary study and analysis through readings from various Arab-speaking cultures. Emphasis on vocabulary development, expression and written comprehension. Prerequisite: ARAB 103 or equivalent. (4 units)

290. Arabic Literature in Translation
Introduction to Arabic literature in English translation. (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 assessment portfolios. Satisfactory completion is required for enrollment in all upper-division Arabic courses. Graded credit/no credit. Prerequisite: 12 units of ARAB courses at the 200-level or equivalent. (2 units)
304. **Advanced Arabic IV**
Extended study of Arabic language for students needing to build proficiency before moving to 400-level language and thematic/content based classes. Graded credit/no credit. Prerequisite: ARAB 303 or consent of instructor. (4 units)

305. **Advanced Arabic V**
Extended study of Arabic language for students needing to build proficiency before moving to 400-level language and thematic/content based classes. Graded credit/no credit. Prerequisite: ARAB 304 or consent of instructor. (4 units)

312. **Advanced Arabic Composition**
Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Prerequisite: ARAB 212 or consent of instructor. (4 units)

314. **Advanced Arabic Conversation**
Intensive practice of oral Arabic at the upper-intermediate level leading to higher fluency. Develops a functional and practical vocabulary for students who have formally learned the language in a classroom setting. Prerequisite: ARAB 295 or consent of instructor. (4 units)

316. **Arabic for the Professions**
Oral and written practice in Arabic terminology used in various professions, with emphasis on cultural context. (4 units)

320. **Arabic Phonetics**
In-depth study of the Arabic sound system. Oral practice and study of general principles of Arabic phonology and dialectology. Prerequisite: ARAB 295 or consent of instructor. (4 units)

370. **Arabic Film and Culture**
Analysis and historical examination of Arabic cultures, literatures, and themes through Arabic-language films. (4 units)

399. **Community Service Project**
Credit for applying previously learned skills in the area of Arabic to academically related tasks in such agencies as governmental, social service, and educational institutions. May be repeated for credit. No more than six units of credit may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)

401. **Fourth Year Arabic I**
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes. Prerequisite: ARAB 303 or consent of instructor. (4 units)

402. **Fourth Year Arabic II**
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes. Prerequisite: ARAB 401 or consent of instructor. (4 units)

403. **Fourth Year Arabic III**
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes. Prerequisite: ARAB 402 or consent of instructor. (4 units)

404. **Fourth Year Arabic IV**
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes. Prerequisite: ARAB 403 or consent of instructor. (4 units)

405. **Fourth Year Arabic V**
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes. Prerequisite: ARAB 404 or consent of instructor. (4 units)

470. **Contemporary Issues in Arab Culture**
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change. Prerequisite: ARAB 301 or equivalent or consent of instructor. (4 units)

471. **Media in the Arab World**
In-depth study and analysis of media in the Arab world. Survey of major press, radio, TV, satellite, internet, and alternative publishing outlets. Reading and discussion of freedom of expression and censorship. Prerequisite: ARAB 301 or equivalent or consent of instructor. (4 units)

480. **Special Topics in Classical Islamic Texts**
Study, readings and discussion of a wide variety of classical Islamic texts such as the Qur'an, Tafseer (exegesis), Fiqh (jurisprudence), historiography, and philosophy. May be repeated as topics change. Prerequisite: ARAB 303 or 312 or consent of instructor. (4 units)

481. **Special Topics in Contemporary Arabic Literature**
Special topics in contemporary Arabic literatures such as novels, poetry, essays and drama. May be repeated for credit as topics change. Prerequisite: ARAB 303, 312 or consent of instructor. (4 units)

496. **Senior 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 complete an oral and written assessment. Course must be taken prior to enrolling in the last 12 units of the major and prior to the student's final quarter at CSUSB. Graded credit/no credit. (2 units)

575. **Internship**
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the B.A. in Arabic. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit. Prerequisite: ARAB 303 or equivalent or consent of instructor. (1-4 units)
ART

Accredited by the National Association of Schools of Art and Design

Department of Art

Visual Arts Center, Room 105
(909) 537-5802  art.csus.edu

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
- Film Studies (See Page 137)
- Graphic Design: Print
- Graphic Design: Web
- Studio Art

Certificate Program

- Business Skills for the Artist

Master of Arts

- Art
  - Art Education
  - Studio Art

(Degree requirements can be found on Page 378.)

Master of Fine Arts

- Studio Art and Design

(Degree requirements can be found on Page 380.)

FACULTY: Annie Buckley, Kurt Collins, Katherine Gray, Richard Johnston, Sant Khalsa, Jiong Li, George McGinnis (Emeritus), Thomas McGovern, Alison Petty, Brad Spence, Beth Steffel

The Department of Art offers a multiplicity of perspectives on art, design and visual culture that include but are not limited to: creative ecstasy, critical incisiveness, historical consciousness, political activism, professional know-how, punk refusal, corporate ingenuity, refined craft, social engagement, stylish design, and oftentimes that which approaches personal enlightenment.

Art students are immersed in a supportive and creative climate where they gain a rigorous foundation in art history, theory, criticism, and studio practice. The curriculum thoroughly integrates technical skills and conceptual exploration, fostering insight and imagination that encourages students to challenge and evolve the boundaries of their disciplines and those of their world. Students are prepared for an array of career opportunities that utilize their talents, passion, knowledge, critical thinking, and artistic skills.

As a major in art, students working toward a Bachelor of Arts in Art, select from these plans: art education, studio arts (including ceramics, digital arts, glass, painting and drawing, photography, printmaking, sculpture, and woodworking and furniture making), art history, graphic design, and graphic design and marketing. Students seeking a minor in art choose from art history, studio art, graphic design (print or web), and film studies.

The Department of Art is housed with the world-class Robert and Francis Fullerton Museum of Art in the 100,000 sq. ft. Visual Arts Center, considered the finest art facility in the California State University system.

Five-unit studio courses meet for eight scheduled hours per week and require an additional seven hours per week outside of class. Field trips are mandatory in most art history courses and several studio courses. Materials fees are required in all art courses.

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

Requirements (101 units) (see Addendum for program changes)

Total units required for graduation: 180

This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to pursue a single subject teaching credential 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 200. Studies in Art (4)
6. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
7. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
8. ART 223. Art History: Renaissance to the Present (4)
9. ART 235. Beginning Painting (5)
10. ART 240. Beginning Sculpture (5)
11. ART 254. Beginning Ceramics (5)
12. ART 260. Beginning Printmaking (5)
13. ART 290. Beginning Photography (5)

Upper-division requirements (44 units)

1. History of Art
   Eight units consisting of one four-unit course chosen from each of the following (A and B):
   A. ART 420. Art from 1900 to the Present (4)
   ART 520. Contemporary Art, Theory and Criticism (4)
   ART 305. Women and Art (4)
   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)
   B. ART 420. Art from 1900 to the Present (4)
   ART 520. Contemporary Art, Theory and Criticism (4)
   ART 305. Women and Art (4)
   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. Three five-unit courses chosen from at least two of the following specializations: (Note: Check course descriptions to ascertain which courses may be repeated for credit. Some courses listed require lower division prerequisites.)
   A. Ceramics
      ART 355. Intermediate Ceramics (5)
      ART 357. Advanced Ceramics (5)
   B. Graphic Design
      ART 320. Digital Image Editing (5)
      ART 322. Web Design (5)
      ART 325. Advanced Digital Image Editing (5)
   C. New Genres
      ART 366. Topics in Studio Art (5)
      ART 373. Installation Art (5)
      ART 387. Video Art (5)
      ART 396. New Genres (5)
      ART 441. Public Art (5)
   D. Painting
      ART 304. Advanced Drawing and Life Drawing (5)
      ART 335. Intermediate Painting (5)
      ART 336. Advanced Painting (5)
Photography
ART 386. Digital Photography (5)
ART 391. Intermediate Photography (5)
ART 398. Documentary Photography (5)
ART 492. Advanced Photography (5)
Printmaking
ART 361. Intermediate Printmaking (5)
ART 362. Advanced Printmaking (5)
Sculpture
ART 340. Intermediate Sculpture (5)
ART 341. Advanced Sculpture (5)
3. ART 415. Senior Seminar: Art and Society II (2)
4. ART 416. Senior Project (2)
5. Art Education
Four courses totalling 17 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 (4)
ART 498. Art Education: Digital Technology (5)

B.A. IN ART - PLAN II (Studio Art)
Requirements (95 units) (see Addendum for program changes)
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 (12 courses totalling 49 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 125. Freshman Seminar: Art and Society I (2)
6. ART 200. Studies in Art (4)
7. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
8. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
9. ART 223. Art History: Renaissance to the Present (4)
10. Select three courses from lower-division studio art courses:
    ART 235. Beginning Painting (5)
    ART 240. Beginning Sculpture (5)
    ART 254. Beginning Ceramics (5)
    ART 260. Beginning Printmaking (5)
    ART 268. Beginning Woodworking and Furniture Design (5)
    ART 270. Beginning Glass (5)
    ART 290. Beginning Photography (5)

NOTE: Additional lower-division studio art courses may be taken as free electives toward the 180 units required for graduation, but will not be counted toward the requirements for the major.

Upper-division requirements (46 units)
1. History of Art
   Eight units consisting of one four-unit course chosen from each of the following (A and B):
   A. ART 305. Women and Art (4)
      ART 306. Greek and Roman Art (4)
      ART 310. Asian Art (4)
      ART 311. Art of the United States to the End of the Nineteenth Century (4)
      ART 314. The Art of Indigenous Peoples (4)
      ART 316. Arts of the Ancient Near East and Egypt (4)
   B. ART 420. Art from 1900 to the Present (4) (if not taken in Category A above)
      ART 520. Contemporary Art, Theory and Criticism (4)
      (if not taken in Category A above)

2. Studio Art Courses
   Select any six five-unit courses for a total of 30 units.
   Courses are divided into three categories for organization purposes only, select any six courses regardless of category. Students may mix any combination of courses, or choose to specialize in a single discipline. Check course descriptions to ascertain which courses have prerequisite requirements and which courses may be repeated for credit.

   Two Dimensional Pictorial and Photographic Arts
   ART 304. Advanced Drawing and Life Drawing (5)
   ART 335. Intermediate Painting (5)
   ART 336. Advanced Painting (5)
   ART 361. Intermediate Printmaking (5)
   ART 362. Advanced Printmaking (5)
   ART 366. Topics in Studio Art (5)
   ART 386. Digital Photography (5)
   ART 391. Intermediate Photography (5)
   ART 393. Studio Photography (5)
   ART 398. Documentary Photography (5)
   ART 492. Advanced Photography (5)

   Three Dimensional Spatial Arts
   ART 308. Intermediate Woodworking and Furniture Design (5)
   ART 340. Intermediate Sculpture (5)
   ART 341. Advanced Sculpture (5)
   ART 355. Intermediate Ceramics (5)
   ART 357. Advanced Ceramics (5)
   ART 369. Advanced Woodworking and Furniture Design (5)
   ART 370. Intermediate Glass (5)
   ART 373. Installation Art (5)
   ART 396. New Genres (5)
   ART 441. Public Art (5)
   ART 471. Advanced Glass (5)

Digital Arts
   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 337. Interactive and Motion-graphics (5)
   ART 350. Introduction to Digital Illustration (5)
   ART 351. Advanced Digital Illustration (5)
   ART 382. Computer Animation: 3D Modeling (5)
   ART 383. Computer Animation: Character Modeling (5)
   ART 384. Digital Motion Imaging (5)
   ART 385. Sound Design for Multimedia (5)
   ART 386. Digital Photography (5)
   ART 387. Video Art (5)
ART 388. Digital Lighting (5)
ART 422. Dynamic Web Site Design (5)
3. Senior Capstone Courses

Three courses for a total of eight units
1. ART 414. Senior Studio Critique (4)
2. ART 415. Senior Seminar: Art and Society II (2)
3. ART 416. Senior Project (2)

B.A. IN ART - PLAN III (Art History)

Requirements (86 units) (see Addendum for program changes)

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 (eight courses totalling 32 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 200. Studies in Art (4)
6. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
7. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
8. 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)
   B. ART 311. Art of the United States to the End of the Nineteenth Century (4)
      ART 333. History of Graphic Design (4)
      ART 334. History of Animation (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 308. Intermediate Woodworking and Furniture Design (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 335. Intermediate Painting (5)
ART 336. Advanced Painting (5)
ART 337. Interactive and Motion-Graphics (5)
ART 340. Intermediate Sculpture (5)
ART 341. Advanced Sculpture (5)
ART 355. Intermediate Ceramics (5)
ART 357. Advanced Ceramics (5)
ART 361. Intermediate Printmaking (5)
ART 362. Advanced Printmaking (5)
ART 366. Topics in Studio Art (5)
ART 369. Advanced Woodworking and Furniture Design (5)
ART 370. Intermediate Glass (5)
ART 373. Installation Art (5)
ART 382. Computer Animation: 3D Modeling (5)
ART 383. Computer Animation: Character Modeling (5)
ART 384. Digital Motion Imaging (5)
ART 385. Sound Design for Multimedia (5)
ART 386. Digital Photography (5)
ART 387. Video Art (5)
ART 388. Digital Lighting (5)
ART 391. Intermediate Photography (5)
ART 393. Studio Photography (5)
ART 396. New Genres (5)
ART 398. Documentary Photography (5)
ART 422. Dynamic Web Site Design (5)
ART 441. Public Art (5)
ART 471. Advanced Glass (5)
ART 492. Advanced Photography (5)

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

Foreign language requirement (12 units)
1. Twelve units or three quarters of one foreign language or equivalent proficiency.

B.A. IN ART - PLAN IV (Graphic Design)

Requirements (99 units) (see Addendum for program changes)

Total units required for graduation: 180

This program is designed for students with a strong professional interest in graphic design for electronic, digital, and print media.

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

Lower-division requirements (ten courses totalling 40 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 200. Studies in Art (4)
6. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
7. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
8. ART 223. Art History: Renaissance to the Present (4)
9. ART 224. Art History: Nineteenth Century (4)
10. ART 232. Principles of Design Management (4)

Upper-division requirements (59 units)
1. Art history
   Four units chosen from:
   ART 305. Women and Art (4)
   ART 306. Greek and Roman Art (4)
   ART 310. Asian Art (4)
   ART 311. Art of the United States to the End of the Nineteenth Century (4)
ART 314. The Art of Indigenous Peoples (4)  
ART 316. Arts of the Ancient Near East and Egypt (4)  
ART 321. Renaissance Art (4)  
ART 323. Native North American Art (4)  
ART 324. Pre-Columbian Art (4)  
ART 327. Baroque and Rococo Art (4)  
ART 328. Mexican Art (4)  
ART 329. Chicano Art (4)  
ART 334. History of Animation (4)  
ART 359. History of Photography (4)  
ART 410. Studies in Art History (4)  
ART 420. Art from 1900 to the Present (4)  
ART 423. Nineteenth Century European Art (4)  
ART 520. Contemporary Art, Theory and Criticism (4)  
ART 525. Seminar in Art History (4)  
2. ART 322. Web Design (5)  
3. ART 333. History of Graphic Design (4)  
4. ART 342. Graphic Design I (5)  
5. ART 343. Graphic Design II (5)  
6. ART 344. Graphic Design III (5)  
7. ART 364. Digital Motion Imaging (5)  
8. ART 442. Graphic Design IV (5)  
9. ART 443. Graphic Design V (5)  
10. ART 415. Senior Seminar: Art and Society II (2)  
11. MKTG 305. Marketing Principles (4)  
12. Elective studio art courses (10 units)  
Two five-unit courses chosen from:  
ART 235. Beginning Painting (5)  
ART 240. Beginning Sculpture (5)  
ART 254. Beginning Ceramics (5)  
ART 260. Beginning Printmaking (5)  
ART 268. Beginning Woodworking and Furniture Design (5)  
ART 270. Beginning Glass (5)  
ART 290. Beginning Photography (5)  
ART 304. Advanced Drawing and Life Drawing (5)  
ART 308. Intermediate Woodworking and Furniture Design (5)  
ART 313. Printing Production (5)  
ART 320. Digital Image Editing (5)  
ART 325. Advanced Digital Image Editing (5)  
ART 326. Interactive Multimedia Design (5)  
ART 330. Animation and Web Motion-Graphics (5)  
ART 335. Intermediate Painting (5)  
ART 336. Advanced Painting (5)  
ART 337. Interactive and Motion-Graphics (5)  
ART 340. Intermediate Sculpture (5)  
ART 341. Advanced Sculpture (5)  
ART 350. Introduction to Digital Illustration (5)  
ART 351. Advanced Digital Illustration (5)  
ART 355. Intermediate Ceramics (5)  
ART 357. Advanced Ceramics (5)  
ART 361. Intermediate Printmaking (5)  
ART 362. Advanced Printmaking (5)  
ART 366. Topics in Studio Art (5)  
ART 369. Advanced Woodworking and Furniture Design (5)  
ART 370. Intermediate Glass (5)  
ART 373. Installation Art (5)  
ART 382. Computer Animation: 3D Modeling (5)  
ART 383. Computer Animation: Character Modeling (5)  
ART 385. Sound Design for Multimedia (5)  
ART 386. Digital Photography (5)  
ART 387. Video Art (5)  
ART 388. Digital Lighting (5)  
ART 391. Intermediate Photography (5)  
ART 393. Studio Photography (5)  
ART 396. New Genres (5)  
ART 398. Documentary Photography (5)  
ART 422. Dynamic Web Site Design (5)  
ART 441. Public Art (5)  
ART 471. Advanced Glass (5)  
ART 492. Advanced Photography (5)  

B.A. IN ART - PLAN V  
(Graphic Design and Marketing)  
Requirements (102 units) (see Addendum for program changes)  

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 (ten courses totalling 40 units)  
1. ACCT 211. Introductory Accounting (4)  
2. ART 120. Introduction to Two Dimensional Design (4)  
3. ART 124. Introduction to Digital Media Design (4)  
4. ART 200. Studies in Art (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)  
10. 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 (50 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 384. Digital Motion Imaging (5)  
6. ART 442. Graphic Design IV (5)  
7. ART 443. Graphic Design V (5)  
8. MKTG 305. Marketing Principles (4)  
9. MKTG 410. Consumer Behavior (4)  
10. MKTG 420. Advertising (4)  
11. MKTG 446. Advertising Campaign (4)  
12. Electives (12 units)  

Electives (12 units)  
1. Twelve units chosen from (if not taken previously):  
ART 301. Topics in Studio Art for Non-Majors (2.5)  
ART 322. Web Design (5)  
ART 575. Internship (4)  
ECON 200. Principles of Microeconomics (4)  
ECON 202. Principles of Macroeconomics (4)  
MGMT 100. Introduction to Business (4)  
MGMT 102. Management and Organizational Behavior (4)  
MGMT 410. Consumer Behavior (4)  
MGMT 420. Advertising (4)  
MGMT 446. Advertising Campaign (4)  
MKTG 416. Marketing Research (4)  
MKTG 430. Professional Selling (4)  
MKTG 475. Internship in Marketing (4)  
MKTG 590. Seminar in Marketing (4)  

HONORS PROGRAM

To be awarded Honors in Art, an art major must:
1. Achieve a university grade point average of 3.25;
2. Achieve a grade point average of 3.5 in the major;
3. Be recommended by three faculty, at least one of whom is in their plan and specialization;
4. In special circumstances, the department may grant honors to students who fail to meet some or all the above requirements, but have in some other way demonstrated exceptional achievement in the field of art.

Students interested in receiving honors must initiate the process by making a formal application to the Art Department prior to their final term of study.

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 170 or contact the Credentials Office, CE-102.

MINOR IN ART HISTORY

Requirements (32 units)

Requirements for a minor in Art History:

Lower-division requirements (four courses totalling 16 units)
1. ART 200. Studies in Art (4)
2. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
3. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
4. ART 223. Art History: Renaissance to the Present (4)

Upper-division requirements (16 units)
1. Art history
   Sixteen units chosen from:
   ART 305. Women and Art (4)
   ART 306. Greek and Roman Art (4)
   ART 310. Asian Art (4)
   ART 311. Art of the United States to the End of the Nineteenth Century (4)
   ART 314. The Art of Indigenous Peoples (4)
   ART 316. Arts of the Ancient Near East and Egypt (4)
   ART 321. Renaissance Art (4)
   ART 323. Native North American Art (4)
   ART 324. Pre-Columbian Art (4)
   ART 327. Baroque and Rococo Art (4)
   ART 328. Mexican Art (4)
   ART 329. Chicano Art (4)
   ART 333. History of Graphic Design (4)
   ART 334. History of Animation (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 FILM STUDIES

Minor in Film Studies

The Department of Art participates in the interdisciplinary minor in Film Studies. Details concerning this minor are found on Page 137.

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 320. Digital Image Editing (5)
4. ART 322. Web Design (5)
5. ART 326. Interactive Multimedia Design (5)
6. ART 337. Interactive and Motion-Graphics (5)
7. ART 422. Dynamic Web Site Design (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 326. Interactive Multimedia Design (5)
6. ART 337. Interactive and Motion-Graphics (5)
7. ART 422. Dynamic Web Site Design (5)

MINOR IN STUDIO ART

Requirements (47 units) (see Addendum for program changes)

Requirements for a minor in Studio Art:

Lower-division requirements (eight courses totalling 32 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 200. Studies in Art (4)
6. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
7. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
8. ART 223. Art History: Renaissance to the Present (4)

Studio course (5 units)

1. One lower-division course chosen from:
   ART 235. Beginning Painting (5)
   ART 240. Beginning Sculpture (5)
   ART 254. Beginning Ceramics (5)
   ART 260. Beginning Printmaking (5)
   ART 268. Beginning Woodworking and Furniture Design (5)
   ART 270. Beginning Glass (5)
   ART 290. Beginning Photography (5)

Upper-division requirements (10 units)

Studio courses

1. Two five-unit courses chosen from:
   ART 304. Advanced Drawing and Life Drawing (5)
   ART 308. Intermediate Woodworking and Furniture Design (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 335. Intermediate Painting (5)
   ART 336. Advanced Painting (5)
   ART 337. Interactive and Motion-Graphics (5)
   ART 340. Intermediate Sculpture (5)
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. (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. (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)

124. Introduction to Digital Media Design
Introduction to computer-based digital media design exploring the creative potential of the digital environment, including the interactivity of two-dimensional and three-dimensional design. Eight hours activity. Materials fee required. (4 units)

125. Freshman Seminar: Art and Society I
Introduction to the theoretical and practical roles of art, artists, and their audiences, and Art Department resources for creative research. Required of all B.A. in Art, Plan II freshmen and all transfer students. Two hours lecture. Graded credit/no credit. Materials fee required. Prerequisite: declared B.A. in Art, Plan II. (2 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. Materials fee required. (GE=B4) (4 units)

221. Art History: Prehistoric Times through the Middle Ages
Development of early Western art and its historical context. Materials fee required. Prerequisite: ART 200. (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. Prerequisite: ART 200. (4 units)

223. Art History: Renaissance to the Present
Development of later Western art and its historical context. Materials fee required. Prerequisite: ART 200. (4 units)

232. Principles of Design Management
An introduction to basic procedures used by designers and production managers including techniques of problem solving, presentation, typography, layout and graphic arts practices, and composition and includes instruction in graphics software programs in a Macintosh-based computer laboratory. The focus will be on concept, process and product. Materials fee required. Formerly ART 332. Eight hours activity. Prerequisites: ART 120 and 122 or consent of instructor. (4 units)
235. Beginning Painting
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. (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. Beginning Sculpture
Approaches to sculpture using a variety of materials, tools, processes and concepts. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 121 or consent of instructor. (5 units)

245. Beginning Ceramics
Beginning techniques of coil, slab building, wheel throwing, and glaze applications of low and high fire surfaces. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 354. (5 units)

260. Beginning Printmaking
Introduction to the basic processes and materials of printmaking with a thorough exploration of monotypes, color reduction and relief techniques, including wood and linoleum cutting and other processes. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 360. Prerequisites: ART 120, 122, and 123 or consent of instructor. (5 units)

268. Beginning Woodworking and Furniture Design
Explorations in the use of hand and power tools in woodworking. Materials fee required. Formerly ART 368. (5 units)

270. Beginning Glass
Basic creative glassworking techniques, including working with molten glass (glassblowing, solid sculpting,) coldworking (cutting, grinding, polishing, surface decoration) and kilncasting. Lectures, demonstrations, visiting artists, and field trips as needed. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 121 or consent of instructor. (5 units)

290. Beginning Photography
Fundamentals of black and white photography including manual camera operation, black and white film developing and printing. Emphasis on composition, content and image-making for creative expression. Two hours lecture and six hours laboratory. Formerly ART 390. Materials fee required. (5 units)

Upper Division

301. Topics in Studio Art for Non-Majors
Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. Materials fee required. (2.5 units)

302. Topics in Studio Art for Non-Majors
Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. Materials fee required. (5 units)

304. Advanced Drawing and Life Drawing
Further exploration in techniques of drawing for purposes of creative expression. May be repeated for a maximum of 25 units as content changes. 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. 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)

308. Intermediate Woodworking and Furniture Design
Intermediate woodworking and furniture design using a variety of materials, tools, processes, and concepts. May be repeated for credit for a total of 10 units as content changes. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 268 or consent of instructor. (5 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 uses of image processing software. Multiple masking, controlling color transparency, layers, luminosity, complex image compositing, advanced illustration effects, 3D effects, photo-realistic painting, and montage. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 320 or consent 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)

334. History of Animation
Development of animation in its historical, cultural, political, and social contexts. Emphasis on understanding styles, techniques, theory, and criticism of animation as an art form. (4 units)

335. Intermediate Painting
Intermediate research in painting introducing the medium's expressive and conceptual possibilities. Includes color theory, composition, and material techniques developed in relation to the medium's historical background and contemporary practices. Two hours lecture and six hours activity. May be repeated for credit for a maximum of 10 units as course content changes. Materials fee required. Prerequisite: ART 235 or consent of instructor. (5 units)

336. Advanced Painting
Advanced work in painting. May be repeated for a maximum of 25 units as course content changes each term. Materials fee required. Two hours lecture and six hours activity. Prerequisite: ten units of ART 335 or consent of instructor. (5 units)

337. Interactive and Motion-Graphics
Introduces concepts, production, and aesthetics of motion graphic design. Integrates components of typography, graphics, photography, video, and audio to create time-based, interactive content for digital, web, and mobile platforms. Explores linear and non-linear interactive forms as they relate to real-world graphic design projects. Training in selected current software. May be repeated for credit as course content changes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: junior or senior standing in graphic design or consent of instructor. (5 units)

340. Intermediate Sculpture
Intermediate sculpture using a variety of materials, tools, processes, and concepts. May be repeated for a maximum of ten units as content changes. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 240 or consent of instructor. (5 units)

341. Advanced Sculpture
Advanced work in sculpture. May be repeated for a maximum of 20 units as content changes. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ten units of ART 340. (5 units)

342. Graphic Design I
Fundamentals and principles of typographic design. An examination of the different elements of typography. Instruction also includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 232 and 238 or consent of instructor. (5 units)

343. Graphic Design II
Principles of photography, illustration, collage and typography applied to posters, games, book covers, magazines, point-of-purchase displays, and promotional materials, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 342 or consent of instructor. (5 units)

344. Graphic Design III
Design principles as applied to regional and national, corporate and retail environments. Covers the interactions between business people and designers and the realities of planning, marketing, and strategic positioning of both company and product, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 343 or consent of instructor. (5 units)

345. Gallery Management
Fine art gallery practices including installation, packing and crating, special event coordination and conduct. Preparation of publications and publicity, art handling and security. May be repeated for credit with consent of instructor. (2 units)

350. Introduction to Digital Illustration
Introduction to two-dimensional digital illustration techniques in combination with traditional methods. Both vector and pixel-based imagery and current software are explored. Two hours lecture and six hours activity laboratory. Materials fee required. Prerequisites: ART 123, 235 and 238 or consent of instructor. (5 units)
351. Advanced Digital Illustration
Advanced digital illustration techniques in combination with traditional methods. Both vector and pixel-based imagery and current software are explored. Two hours lecture and six hours activity laboratory. Materials fee required. Prerequisite: ART 350. (5 units)

355. Intermediate Ceramics
Intermediate 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. May be repeated for a maximum of ten units as content changes each term. Materials fee required. Prerequisite: ART 254 or consent of instructor. (5 units)

357. Advanced Ceramics
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 a maximum of 20 units as content changes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ten units of ART 355 or consent of instructor. (5 units)

359. History of Photography
Development of the technology and aesthetics of photography. Materials fee required. (4 units)

361. Intermediate Printmaking
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. May be repeated for a maximum of ten units as content changes. Materials fee required. Prerequisites: ART 120, 122 and 260. (5 units)

362. Advanced Printmaking
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 a maximum of 20 units as content changes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ten units of ART 361 or consent of instructor. (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. (1-5 units)

366. Topics in Studio Art
Studio art covering a range of media, contemporary art practices and focusing on studio work on a selected topic. May be repeated as topics change for a maximum of 20 units. Materials fee required. Two hours lecture and six hours laboratory. Prerequisites: ART 120, 121, 122, and three lower-division studio art courses or consent of instructor. (5 units)

369. Advanced Woodworking and Furniture Design
Advanced work in woodworking and furniture design. May be repeated for a maximum of 20 units as content changes. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 268. (5 units)

370. Intermediate Glass
Intermediate instruction in glass with an emphasis on developing a personal artistic vision. Developing skills with materials with an articulation of artistic ideals/concerns. Demonstrations of more advanced and/or refined techniques in various glassworking areas will supplement visiting artist and slide lectures, field trips, and independent studio work time. May be repeated for a maximum of 10 units as content changes. Formerly ART 375. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 270 or consent of instructor. (5 units)

373. Installation Art
Sculptural practice that incorporates or is characterized by its environment or site. Theoretical and conceptual issues, practical concerns and history of installation art. Art making, lectures, critiques, visiting artists, and field trips as needed. Materials fee required. May be repeated for a maximum of 20 units as content changes. Two hours lecture and six hours laboratory. Prerequisites: Art 121, 122, 123, 124, and successful completion of two lower division studio courses or consent of instructor. (5 units)

382. Computer Animation: 3D Modeling
Introduction to 3D computer modeling. Explores additive and subtractive model development techniques. Emphasizes creation of multi-faceted and articulated parts. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: junior standing, art or computer science major or consent of instructor. (5 units)

384. Digital Motion Imaging
Digital motion imaging for graphic, electronic and web designers. Familiarizes students with process and tools of digital motion imaging for conceptual design projects. Develops critical and interdisciplinary framework for evaluating digital work aesthetically and technically. Successful course completion will result in Apple Final Cut Pro certification. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: junior standing, or consent of instructor. (5 units)

385. Sound Design for Multimedia
Sound design combining theory and practice. Principles of sound design applied to individual multi-media and animation projects with emphasis on sound recording, editing, mixing and special effects. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 382 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)

387. Video Art
Creative research and experimentation in video art including history, theory, production (camera, lighting, sound, and editing techniques), presentation (single channel, multi-channel, projection, and installation), and contemporary practices. May be repeated for a maximum of 20 units as content changes. Two hours lecture and six hours activity. Materials fee required. Prerequisite: ART 123 or consent of instructor. (5 units)
388. Digital Lighting
Introduction of the mathematical models used in computer graphics to mimic the physical behavior of light in the generation of 3D imagery. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 382 or consent of instructor. (5 units)

391. Intermediate Photography
Advanced black and white printing techniques, non-silver and alternative processes, medium and large format photography, intermediate research in contemporary photography as an expressive medium. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

393. Studio Photography
Fundamentals of studio photography including strobes, electronic metering, medium and large format cameras, lighting for still life and portraiture. 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. 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 20 units as content changes. Prerequisites: ART 120, 121, 123, 124 and successful completion of two lower division studio courses 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)

414. Senior Studio Critique
Interdisciplinary art critiques, art writing, readings and discussions relevant to contemporary ideas and issues in art. Materials fee required. Prerequisites: B.A. in Art, Plan II, and senior status. (4 units)

415. Senior Seminar: Art and Society II
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)

422. Dynamic Web Site Design
Advanced design for dynamic web sites. Explores use of content management systems and database driven websites. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: computer science students with junior or senior standing, graphic design students or students with consent of instructor. (5 units)

423. Nineteenth Century European Art
Art of the Nineteenth-century Europe; from neo-Classicism through post-Impressionism. Materials fee required. (4 units)

441. Public Art
The study and practice of art for public places including the history, theory, conceptualization, production, and professional and business practices. May be repeated for a maximum of 20 units as content changes. Two hours lecture and six hours activity. Materials fee required. Prerequisite: ART 120, 121, 122 and 123 or consent of instructor. (5 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)

471. Advanced Glass
This course uses glass as an integral part of the artistic vision. Students observe demonstrations and work independently to develop a cohesive body of work. May be repeated for a maximum of 20 units as content changes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ten units of ART 370 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)

492. Advanced Photography
Advanced work in photography. May be repeated for a maximum of 25 units as content changes. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 392. Prerequisites: ART 290, and successful completion of any two of the following: ART 386, 3893, 394, 395, or consent of instructor. (5 units)

496. Art Education: Social and Cultural Frameworks
A study of the historical and contemporary contexts for art and how they relate to current art education methods and curriculum. Issues of diversity, ethnicity, gender and environment will be included. Materials fee required. Prerequisite: ART 399 or consent of instructor. (4 units)

497. Art Education: Issues in Studio Practice
Translation and implementation of unit lesson plans; studio techniques, materials and media, contemporary art making and theory for K-12 students, California Visual Art Content Standards, classroom safety practices, and classroom management skills. Materials fee required. Four hours activity. Prerequisite: ART 399 or consent of instructor. (4 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, computer assisted student projects, and on-line hybrid-based discussions and readings. Materials fee required. Three hours lecture and four hours laboratory. Prerequisites: ART 123 and 399. (5 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)

520. Contemporary Art, Theory and Criticism
An examination of selected major movements of contemporary art, and recent art theory and criticism. 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. Prerequisite: a minimum of 12 units in art history. (4 units)

530. Art Writing
Critical and creative approaches to writing about art. Includes study and practice in writing reviews, essays, and reflective responses and consideration of context, audience, voice, editing, and style in writing about art. Materials fee required. May be repeated for a maximum of 8 units. Prerequisites: completion of the upper division writing requirement and eight units of Art History courses or consent of instructor. (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. Materials fee required. Prerequisite: consent of instructor. (1-5 units)
When approved by the Asian Studies Director, credit will be given

**SOC 425. Asian Americans: Origins and Ethnicity (4)**

**PSCI 352D. Minority Politics: Asian American Politics (4)**

**HIST 440.**

**HIST 435. World War II in the Pacific (4)**

**HIST 432. Modern China III, 1949-present (4)**

**HIST 431. Modern China II, 1911-1949 (4)**

**HIST 428. Medieval China (4)**

**HIST 426. Ancient and Early Imperial China (4)**

**ANTH 466. Anthropology of Health, Illness and Healing (4)**

**ANTH 365. Asian American Cultures (4)**

**ANTH 362. Peoples of Asia (4)**

**ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)**

**ANTH 366. Filipino Cultural Expressions (2)**

**ANTH 466. Anthropology of Health, Illness and Healing (4)**

**HIST 432. Modern China II, 1911-1949 (4)**

**HIST 431. Modern China II, 1911-1949 (4)**

**HIST 430. Medieval Japanese History (4)**

**HIST 435. World War II in the Pacific (4)**

**HIST 440. Modern Japanese History (4)**

**PSCI 352D. Minority Politics: Asian American Politics (4)**

**SOC 425. Asian Americans: Origins and Ethnicity (4)**

When approved by the Asian Studies Director, credit will be given to other courses contingent on a significant amount of content focusing on Asia and Asian cultures. Such courses may include but are not limited to the following:

- **ANTH 332.** Cross-Cultural Perspectives on Aging (4)
- **ECON 430.** International Economics (4)
- **PSYC 345.** Cross Cultural Psychology (4)
- **SSCI 300.** Nonwestern World (4)

**B. Arts, Languages, Literature, and Education (4 units)**

**ART 310.** Asian Art (4)

**CHIN 290.** Chinese Literature in Translation (4)

**DAN 310D.** World Dance Traditions: Asian (2)

**HUM 380.** Comparative Studies in the Arts: East and West (4)

**JAPN 290.** Japanese Literature in Translation (4)

**PHIL 193.** Introduction to Eastern Philosophy (4)

**PHIL 375.** Non-Western Philosophy (4)

**TA 463.** Asian Theatre (4)

When approved by the Asian Studies Director, credit will be given to other courses contingent on a significant amount of content focusing on Asia and Asian cultures. Such courses may include but are not limited to the following:

- **ART 222.** Art History: Africa, Asia, the Americas and Oceania (4)
- **ENG 319.** Studies in Literary Diversity (4)
- **ENG 321.** Studies in Language and Linguistics (4)
- **ENG 535.** Images of Culture through Children’s Literature (4)
- **MUS 350.** Music of World Cultures (4)
- **PHIL 472.** Advanced Issues in Philosophy of Religion (4)
- **TA 464.** Theatre in the Post-Colonial World (4)
- **TA 465.** Ethnic Films and Film Makers (4)

**C. Administration, Communication, Health and Nutrition, Environment (4 units)**

**ADMN 590.** Seminar in Administration (2-4) when the topic is Asian

**COMM 410.** Asian Media and Culture (4)

**FIN 355.** Business and Asian Culture (4)

**KINE 114F.** Physical Fitness and Conditioning Activities: Yoga (2)

**KINE 120A.** Somatic and Martial Arts Activities: Aikido (2)

**KINE 120B.** Somatic and Martial Arts Activities: Tai Chi (2)

**KINE 120D.** Somatic and Martial Arts Activities: Judo (2)

**KINE 120E.** Somatic and Martial Arts Activities: Karate (2)

**KINE 120K.** Somatic and Martial Arts Activities: Tae Kwon Do (2)

**KINE 261M.** Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts (2)

**KINE 261O.** Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)

**MGT 406.** International Business Law (4)

When approved by the Asian Studies Director, credit will be given to other courses contingent on a significant amount of content focusing on Asia and Asian cultures. Such courses may include but are not limited to the following:

- **COMM 302.** Communication, Language and Culture (4)
- **COMM 304.** Intercultural Communication (4)
- **COMM 471.** International Communication (4)
- **COMM 580.** Culture and Ethnicity in Language (4)
- **FIN 433.** International Business Finance (4)
- **HSCI 344.** International Perspectives on Nutrition (4)
- **HSCI 359.** Global Health (4)
- **HSCI 385.** Food and Culture: Traditions and Trends (4)
- **MGT 405.** Managing Across Borders (4)
- **MKTG 470.** International Marketing Management (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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Asian Studies

Certificate Requirements (20 units)

Admission to the Program

1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

Certificate Requirements

1. Eight units chosen from:
   - ANTH 362. Peoples of Asia (4)
   - FIN 355. Business and Asian Culture (4)
   - HUM 328. Asian Cultural Traditions (4)

2. Four units of foreign language study chosen from:
   - CHIN 103. College Chinese III (4)
   - JAPN 103. College Japanese III (4)
   - KOR 103. College Korean III (4)

Electives (8 units)

1. Eight units chosen from:
   - ADMN 590. Seminar in Administration (4)
   - ANTH 365. Asian American Cultures (4)
   - ANTH 366. Filipino Cultural Expressions (2-8)
   - ART 310. Asian Art (4)
   - ASIA 392. Topics in Asian Studies (4)
   - ASIA 575. Internship in Asian Studies (1-4)
   - ASIA 595. Independent Study in Asian Studies (1-4)
   - COMM 410. Asian Media and Culture (4)
   - ENG 319. Studies in Literary Diversity (4)
   - ENG 321. Studies in Language and Linguistics (4) (Asian)
   - HIST 426. Ancient and Early Imperial China (4)
   - HIST 428. Medieval China (4)
   - HIST 431. Modern China II, 1911-1949 (4)
   - HIST 432. Modern China III, 1949-present (4)
   - HIST 435. World War II in the Pacific (4)
   - HIST 440. Modern Japanese History (4)
   - HSCI 385. Food and Culture: Traditions and Trends (4)
   - HUM 380. Comparative Studies in the Arts: East and West (4)
   - HUM 425. Integrated Seminar in Asian Studies (4)
   - JAPN 290. Japanese Literature in Translation (4)
   - KINE 114F. Physical Fitness and Conditioning Activities: Yoga (2)
   - KINE 120A. Somatic and Martial Arts Activities: Aikido (2)
   - KINE 120B. Somatic and Martial Arts Activities: Tai Chi (2)
   - KINE 120D. Somatic and Martial Arts Activities: Judo (2)
   - KINE 120E. Somatic and Martial Arts Activities: Karate (2)
   - PHIL 193. Introduction to Eastern Philosophy (4)
   - PSCI 352D. Minority Politics: Asian American Politics (4)
   - ASIA 392. Topics in Asian Studies (4)
   - ASIA 575. Internship in Asian Studies (1-4)
   - ASIA 595. Independent Study in Asian Studies (1-4)
   - PHIL 193. Introduction to Eastern Philosophy (4)
   - PSCI 352D. Minority Politics: Asian American Politics (4)

COURSE OFFERINGS IN ASIAN STUDIES (ASIA)

Upper Division

392. Topics in Asian Studies
Study of selected topics or areas of interest in Asian studies. May be repeated for credit as topics change. (4 units)

757. Internship in Asian Studies
Supervised internship in Asian Studies. Prerequisites: written consent from a supervising agency within which the internship will take place and consent of the Asian Studies Program Committee coordinator. (1-4 units)

595. Independent Study in Asian Studies
Independent study in special topics in Asian studies. Prerequisites: consent of instructor and approval by the Asian Studies Program coordinator. (1-4 units)
COURSE OFFERINGS IN ASTRONOMY (ASTR)

Lower Division

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, although algebra will be used in class. Four hours lecture and three hours laboratory. Materials fee required. Formerly PHYS 103. (GE=B3) (5 units)

Upper Division

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. Formerly PHYS 311. Prerequisites: CHEM 100 and PHYS 100. (5 units)
BIOINFORMATICS

Department of Biology
Biological Sciences Building, Room 329
(909) 537-5305 biology.csusb.edu

Department of Chemistry and Biochemistry
Chemical Science Building, Room CS-204
(909) 537-5318 chem.csusb.edu

School of Computer Science and Engineering
Jack Brown Hall, Room 307
(909) 537-5326 cse.csusb.edu

Bachelor of Science
Bioinformatics

FACULTY: Richard Botting, Arturo Concepcion, Kimberley Cousins, George Georgiou, Ernesto Gomez, Yasha Karant, Yu Jung Kim, Kenneth Mantei (Emeritus), Josephine Mendoza, Anthony Metcalf, Larry Mink, Owen Murphy, Dennis Pederson (Emeritus), Haiyan Qiao, Keith Schubert, Douglas Smith, John Tate, David Turner, Kerstin Voigt (Director), Shumei Yang, Tong Yu, Kay Zemoudeh, Renwu Zhang

Bioinformatics is essentially the interdisciplinary study of biology and biochemical systems using mathematics and computer science. Bioinformatics is a growing area, with many definitions and descriptions. Bioinformatics is the use of computers and statistics to make sense out of the huge mounds of data that are accumulating from high-throughput biological and chemical experiments, such as sequencing of whole genomes, DNA microarray chips, two-hybrid experiments, and tandem mass spectrometry.

There are three different approaches to bioinformatics:
1. Tool building. Creating new programs and methods for analyzing and organizing data.
2. Tool using. Using existing programs and data to answer biologically interesting questions.
3. Tool maintenance. Setting up databases, translating biologists’ questions into ones that programs can answer, keeping the tools working and the databases up to date.

The main goal of the degree is to prepare the students for graduate studies in bioinformatics. A secondary goal is to provide the students with very relevant bioinformatics skills that will be useful for Research and Development in the growing biotechnology industries.

The degree is jointly administered by the Department of Biology, the Department of Chemistry and Biochemistry, and the School of Computer Science and Engineering. The program is housed in the School of Computer Science and Engineering.

B.S. IN BIOINFORMATICS
Requirements (131-132 units)
Total units required for graduation: 194

Requirements for the B.S. in Bioinformatics:
Lower-division requirements (74 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)
6. CHEM 221A. Organic Chemistry I: Lecture (3)
7. CHEM 221B. Organic Chemistry I: Laboratory (1)
8. CHEM 222A. Organic Chemistry II: Lecture (3)
9. CHEM 222B. Organic Chemistry II: Laboratory (1)
10. CHEM 223A. Organic Chemistry III: Lecture (3)
11. CHEM 223B. Organic Chemistry III: Laboratory (1)
12. CSE 122. Bioinformatics (2)
13. CSE 201. Computer Science I (4)
14. CSE 202. Computer Science II (4)
15. MATH 211. Calculus I (4)
16. MATH 212. Calculus II (4)
17. MATH 262. Applied Statistics (4)
18. MATH 272. Discrete Mathematics (4)
19. PHIL 191. Ethics (4)
20. PHYS 221. General Physics I (5)

Upper-division requirements (57-58 units)
1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. A minimum of five units chosen from:
   BIOL 423. Genetics (5)
   BIOL 424. Comparative Animal Physiology (6)
   BIOL 431. Comparative Plant Physiology (6)
   BIOL 440. Principles of Development (5)
   BIOL 450. Ecology (5)
   BIOL 455. Marine Biology and Ecology (5)
4. CHEM 435B. Biochemistry I: Lecture (4)
5. CHEM 435B. Biochemistry I: Laboratory (1)
6. Five units chosen from:
   CHEM 451. Physical Chemistry for Biochemists I (5)
   CHEM 455. Physical Chemistry I (5)
7. CSE 330. Data Structures (4)
8. CSE 431. Algorithm Analysis (4)
9. CSE 500. Introduction to Formal Languages and Automata (4)
10. CSE 553. Numerical Computation (4)
11. CSE 550. Advanced Bioinformatics I: Sequence Analysis (4)
12. CSE 551. Advanced Bioinformatics II: Numerical Modeling (4)
13. CSE 572. Database Systems (4)
14. MATH 372. Combinatorics (4)
BIOLOGY

Department of Biology
Biological Sciences Building, Room 329
(909) 537-5305  biology.csus.edu

Bachelor of Arts
Biology
Biology - Integrated Teaching Track
Biology - Pre-Med Option

Bachelor of Science
Bioinformatics (See Page 114.)
Biology
Ecology and Evolution Option
Pre-Med Option
Doctor of Osteopathic Medicine Articulation

Minor
Biology

Certificate Program
Biotecnology

Master of Science
Biology
(Degree requirements can be found on Page 382.)

FACULTY: Colleen Bonney, Nicole Bournias, Klaus Brasch (Emeritus), Herbert Brunkhorst, Michael Chao, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, Kevin Middleton, Laura Newcomb, Paul Orwin, Tomasz Owerkowicz, David Polcyn (Chair), Scott Shaffer, John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida (Graduate Coordinator), Jeffrey Thompson, Kimberlyn 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 science-based fields seeking a major in biology should consult with a departmental advisor.

B.A. IN BIOLOGY
Requirements (94-102 units)
Total units required for graduation: 180

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

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)
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 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 322. Principles of Organic Chemistry II (5)
   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)
   PHYS 222. General Physics II (5)
   PHYS 223. General Physics III (5)

Upper-division requirements (41 units)
1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 423. Genetics (5)
4. Five units chosen from:
   BIOL 450. Ecology (5)
   BIOL 455. Marine Biology and Ecology (5)
5. BIOL 591. Biology Seminar (1)
6. A minimum of 20 units of upper-division biology courses (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), with at least one course from each of Groups A and B:
   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 331. Biology of Invertebrates (6)
   BIOL 335. Entomology (5)
   BIOL 340. Comparative Embryology (4)
   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)
B.A. IN BIOLOGY - INTEGRATED TEACHING TRACK

Requirements (145-154 units)

Total units required for graduation: 209

Students who successfully meet the requirements for the Teaching Credential Option in Biology will earn a B.A. in Biology and a Single Subject Preliminary Teaching Credential in Biology. In addition to the course requirements listed below, students must complete the following to qualify for a Preliminary Teaching Credential:

1. Successfully complete the California Basic Education Skills Test (CBEST) and the appropriate California Subject Examinations for Teachers (CSET). These exams must be passed before enrolling in ESEC 550A.
2. Submit a Program Application File (PAF) to the Credentials Office, CE-102.
3. Identify an advisor who is approved by the chairs of the Biology Department and the Department of Science, Mathematics, and Technology Education.
4. Provide verification of a negative tuberculin examination within the last 24 months, and submit an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California.
5. Academic Achievement

Applicants must maintain the following minimum grade point averages:

A. A grade point average of 2.75 in all baccalaureate course work,
B. 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 professional education courses. They can only repeat two of these courses.
C. Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major;

6. Course work taken at another institution, or more than seven years ago, is subject to approval by the chairs of both the Biology Department and the Department of Science, Mathematics, and Technology Education.

Requirements for the B.A. in Biology – Integrated Teaching Track:

Lower-division requirements (53-61 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)
6. Organic chemistry

A minimum of nine units chosen from Group A or B below:

Group A:
CHEM 221A. Organic Chemistry I: Lecture (3)
CHEM 222A. Organic Chemistry II: Lecture (3)
CHEM 223A. Organic Chemistry III: Lecture (3)

Group B:
CHEM 322. Principles of Organic Chemistry II (5)
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)

Upper-division requirements (44-45 units)
1. Five units chosen from:
ASTR 311. A Cosmic Perspective of Earth (5)
GEOL 309. Earth, the Blue Planet (5)
2. BIOL 300. Cell Physiology (5)
3. BIOL 321. Evolution (4)
4. BIOL 400. Molecular Biology (5)
5. BIOL 423. Genetics (5)
6. BIOL 575F. Internship in Biology: Science Education (2)
7. Five units chosen from:
BIOL 450. Ecology (5)
BIOL 455. Marine Biology and Ecology (5)
8. Five or six units chosen from:
BIOL 319. Local Flora (5)
BIOL 354. Biology of Higher Plants (6)
9. Six units chosen from:
BIOL 323. Human Anatomy (6)
BIOL 342. Biology of the Chordates (6)
10. BIOL 597. Directed Study in Science Education (1) for a total of (2)

Education Courses (48 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 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 506L. Curriculum and Instruction in Content Areas: Life and Physical Sciences (4)
8. ESEC 550A. Student Teaching (2)
9. The following courses must be taken together:
ESEC 512. Assessment Seminar: Designing Instruction (2)
ESEC 550B. Student Teaching (4)
11. The following courses must be taken together:
ESEC 513. Assessment Seminar: Assessing Learning (2)
ESEC 514. Assessment Seminar: Culminating Teaching Experience (2)
ESEC 550C. Student Teaching (8)

B.A. IN BIOLOGY - PRE-MED OPTION

Requirements (97-99 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.

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

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)

8. A minimum of thirteen units chosen from 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)

Upper-division requirements (44-45 units)
1. Five units chosen from:
ASTR 311. A Cosmic Perspective of Earth (5)
GEOL 309. Earth, the Blue Planet (5)
2. BIOL 300. Cell Physiology (5)
3. BIOL 321. Evolution (4)
4. BIOL 400. Molecular Biology (5)
5. BIOL 423. Genetics (5)
6. BIOL 575F. Internship in Biology: Science Education (2)
7. Five units chosen from:
BIOL 450. Ecology (5)
BIOL 455. Marine Biology and Ecology (5)
8. Five or six units chosen from:
BIOL 319. Local Flora (5)
BIOL 354. Biology of Higher Plants (6)
9. Six units chosen from:
BIOL 323. Human Anatomy (6)
BIOL 342. Biology of the Chordates (6)
10. BIOL 597. Directed Study in Science Education (1) for a total of (2)

Education Courses (48 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 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 506L. Curriculum and Instruction in Content Areas: Life and Physical Sciences (4)
8. ESEC 550A. Student Teaching (2)
9. The following courses must be taken together:
ESEC 512. Assessment Seminar: Designing Instruction (2)
ESEC 550B. Student Teaching (4)
11. The following courses must be taken together:
ESEC 513. Assessment Seminar: Assessing Learning (2)
ESEC 514. Assessment Seminar: Culminating Teaching Experience (2)
ESEC 550C. Student Teaching (8)
Requirements for the B.A. in Biology - Pre-Med Option:

Lower-division requirements (56-58 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)
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:
   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)

Upper-division requirements (41 units)
1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 423. Genetics (5)
4. Five units chosen from:
   BIOL 450. Ecology (5)
   BIOL 455. Marine Biology and Ecology (5)
5. BIOL 591. Biology Seminar (1)
6. A minimum of 20 units of upper-division biology courses (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), with at least one course from each of Groups 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)

Additional 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

Requirements (112-118 units)

Total units required for graduation: 180

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

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)
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 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 322. Principles of Organic Chemistry II (5)
   CHEM 323. Principles of Organic Chemistry III (5)
   Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.
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)

Upper-division requirements (56-57 units)
1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 423. Genetics (5)
4. Five units chosen from:
   BIOL 450. Ecology (5)
   BIOL 455. Marine Biology and Ecology (5)
5. BIOL 591. Biology Seminar (1)
6. Either Group 1 or 2 below:
   Group 1:
   BIOL 354. Biology of Higher Plants (6)
   BIOL 424. Comparative Animal Physiology (6)
   Group 2:
   BIOL 431. Comparative Plant Physiology (6)
   and one of the following:
   BIOL 331. Biology of Invertebrates (6)
   BIOL 342. Biology of the Chordates (6)
6. BIOL 591. Biology Seminar (1)
B.S. IN BIOLOGY -
ECOLOGY AND EVOLUTION OPTION

Requirements (116-125 units)

Total units required for graduation: 180

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

Requirements for the B.S. in Biology - Ecology and Evolution Option:

Lower-division requirements (56-61 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)
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 322. Principles of Organic Chemistry II (5)
   CHEM 323. Principles of Organic Chemistry III (5)
   Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry work from another institution of higher education.
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)
   Upper-division requirements (60-64 units)
   1. BIOL 300. Cell Physiology (5)
   2. BIOL 321. Evolution (4)
   3. BIOL 400. Molecular Biology (5)
   4. BIOL 423. Genetics (5)
   5. BIOL 450. Ecology (5)
   6. One of the following courses:
   BIOL 514. Conservation Biology (4)
   BIOL 590M. Senior Seminar: Conservation Biology (2)
7. BIOL 591. Biology Seminar (1)
8. Either Group 1 or 2 below:
   Group 1:
   BIOL 354. Biology of Higher Plants (6)
   BIOL 424. Comparative Animal Physiology (6)
   Group 2:
   BIOL 431. Comparative Plant Physiology (6)
   and one of the following:
   BIOL 331. Biology of the Invertebrates (6)
   BIOL 342. Biology of the Chordates (6)
9. One course (4-6 units) chosen from the following list:
   BIOL 319. Local Flora (5)
   BIOL 455. Marine Biology and Ecology (5)
   BIOL 522. Population Genetics (4)
   BIOL 565. Physiological Ecology (6)
10. One of the following courses:
   BIOL 505. Biological Research Design and Analysis (5)
   PSYC 410. Advanced Psychological Statistics (5)
   Note: Students should complete BIOL 450 before getting consent of the instructor to enroll in PSYC 410 without the formal prerequisite.
11. A minimum of 12 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), selected in consultation with an advisor in the student's area of specialization.

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.

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

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)
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 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)
   Group 1:
   CHEM 322. Principles of Organic Chemistry II (5)
   CHEM 323. Principles of Organic Chemistry III (5)
   Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry work from another institution of higher education.
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)
   Upper-division requirements (60-64 units)
   1. BIOL 300. Cell Physiology (5)
   2. BIOL 321. Evolution (4)
   3. BIOL 400. Molecular Biology (5)
   4. BIOL 423. Genetics (5)
   5. BIOL 450. Ecology (5)
   6. One of the following courses:
   BIOL 514. Conservation Biology (4)
   BIOL 590M. Senior Seminar: Conservation Biology (2)
7. BIOL 591. Biology Seminar (1)
8. Either Group 1 or 2 below:
   Group 1:
   BIOL 354. Biology of Higher Plants (6)
   BIOL 424. Comparative Animal Physiology (6)
   Group 2:
   BIOL 431. Comparative Plant Physiology (6)
   and one of the following:
   BIOL 331. Biology of the Invertebrates (6)
   BIOL 342. Biology of the Chordates (6)
9. One course (4-6 units) chosen from the following list:
   BIOL 319. Local Flora (5)
   BIOL 455. Marine Biology and Ecology (5)
   BIOL 522. Population Genetics (4)
   BIOL 565. Physiological Ecology (6)
10. One of the following courses:
   BIOL 505. Biological Research Design and Analysis (5)
   PSYC 410. Advanced Psychological Statistics (5)
   Note: Students should complete BIOL 450 before getting consent of the instructor to enroll in PSYC 410 without the formal prerequisite.
11. A minimum of 12 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503), selected in consultation with an advisor in the student's area of specialization.
**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 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.

**Upper-division requirements (56-57 units)**

1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (5)
3. BIOL 423. Genetics (5)
4. Five units chosen from:
   - BIOL 450. Ecology (5)
   - BIOL 455. Marine Biology and Ecology (5)
5. 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)
6. A minimum of four units chosen from:
   - CHEM 345. Modern Quantitative Analysis (5)
   - CHEM 436A. Biochemistry I: Lecture (4)
7. BIOL 591. Biology Seminar (1)
8. A minimum of 19 units of upper-division elective course work in biology (excluding BIOL 301, 304, 305, 306, 314, 349 and 503). Suggested courses which may be useful for medical school preparation include:
   - BIOL 320. Microorganisms
   - BIOL 323. Human Anatomy for Biology Majors
   - BIOL 324. Human Physiology for Biology Majors
   - BIOL 371. Parasitology
   - BIOL 380. Medical and Economic Botany
   - BIOL 572. Virology
   - BIOL 573. Immunology
   - BIOL 576. Endocrinology
   - BIOL 580. Neurobiology

Additional 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

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

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)

**Upper-division requirements (60 units)**

1. BIOL 300. Cell Physiology (5)
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)
6. BIOL 400. Molecular Biology (5)
7. BIOL 423. Genetics (5)
8. BIOL 424. Comparative Animal Physiology (6)
9. Five units chosen from:
   - BIOL 450. Ecology (5)
   - BIOL 455. Marine Biology and Ecology (5)
10. CHEM 436A. Biochemistry I: Lecture (4)
11. CHEM 437A. Biochemistry II: Lecture (3)
12. CHEM 438A. Biochemistry III: Lecture (3)

Other courses which may be used 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 chosen from:
   MATH 120. Pre-Calculus Mathematics (4)
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Concepts of Calculus (4)
9. Physics
   Five units chosen from:
   PHYS 100. Physics in the Modern World (5)
   PHYS 121. Basic Concepts of Physics I (5)
   PHYS 221. General Physics I (5)
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. Candidates must 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. See Page 60 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 423. Genetics
      CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding
      CHEM 216. General Chemistry II: Principles of Chemical Reactions
      CHEM 221A. Organic Chemistry I: Lecture
      CHEM 222A. Organic Chemistry II: Lecture
      CHEM 223A. Organic Chemistry III: Lecture
   B. Completion of a B.A. or B.S. in Biology, Chemistry or Biochemistry at this university, or equivalent.

Certificate Requirements (28 units)

1. BIOL 400. Molecular Biology (5)
2. BIOL 502. Genetic Engineering (4)
3. BIOL 592. Recombinant DNA Techniques (4)
4. A minimum of 15 units chosen from:
   BIOL 320. Microorganisms (6)
   BIOL 573. Immunology (5)
   BIOL 575. Internship in Biology (2)
   BIOL 590A. Senior Seminar: Molecular (2)
   BIOL 596. Independent Research (2) (with a grade of "B" or better)
   CHEM 436A. Biochemistry I: Lecture (4)
   CHEM 436B. Biochemistry I: Laboratory (1)
   CHEM 437A. Biochemistry II: Lecture (3)
   CHEM 437B. Biochemistry II: Laboratory (1)
   CHEM 438A. Biochemistry III: Lecture (3)
   CHEM 438B. 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. ASTR 103. Descriptive Astronomy
2. GEOL 101. Physical Geology
3. GEOL 203. Historical Geology

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 170 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 596. Independent Research;
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. (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. (6 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. (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) (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. Students enrolling in this course for a third time may do so only with the consent of instructor. Prerequisite: one lower-division biology course. (BIOL 100 is strongly recommended.) (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. Students enrolling in this course for a third time may do so only with the consent of instructor. Prerequisite: BIOL 100. (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. Students enrolling in this course for a third time may do so only with the consent of instructor. Prerequisite: BIOL 223. (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. (1-2 units)

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. or B.S. 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. Prerequisite: BIOL 300 with a grade 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, avian, reptilian, marsupial plus placental mammals, and 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)

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)

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. (1-2 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 three hours laboratory. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better and CHEM 223 or 323. (5 units)

423. **Genetics**
Principles of classical and modern genetics including an introduction to population genetics. Four hours lecture and three hours laboratory. Formerly BIOL 421 and 422. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

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. (6 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 consent of instructor.
A. (1 unit)
B. (2 units)
C. (3 units)
D. (4 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)

503. Plant Biology for Teachers
Examination of plant anatomy, morphology, physiology, ecology, and human use, as it applies to the Science Content Standards for California Public Schools. Not acceptable for meeting formal course requirements for the B.A., B.S., or M.S. in biology at CSUSB. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: one college-level biology course and graduate or postbaccalaureate standing, or consent of instructor. (4 units)

505. Biostatistics
Provides an understanding of the design of biological experiments and analysis of data. Topics will include experimental design and sampling protocols, techniques for displaying and describing data, probability, and hypothesis testing. Surveys statistical approaches to the analysis of proportions and frequencies, comparisons of means among numerical variables, regression, and correlation, as well as non-parametric approaches. (Formerly a topic under BIOL 490). Four hours lecture and three hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better, MATH 192 or 211, and consent of instructor. (5 units)

513. Animal Tissue Culture
Introductory course in the theory and concepts of animal tissue culture including fundamentals of tissue culture techniques, sub-culturing and maintenance of cell lines. Strong emphasis on stem cell technology. Formerly offered as a topic under BIOL 490 and 491. Two hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300. (5 units)

514. Conservation Biology
Examination of factors influencing the loss of biological diversity including habitat loss and fragmentation, loss of genetic variation, and species extinction. The science of biological conservation necessarily overlaps with other disciplines including wildlife and resource management, law, economics, and ethics. Prerequisites: BIOL 300 with a grade of "C" or better, and BIOL 321 or 450. (4 units)

515. Global Change Biology
An examination of changing ecological and biogeochemical system interactions at selected times in the earth's history including, but not limited to, the modern era. Class exploration of causes and consequences of contemporary global change for biological systems including displaced populations, disrupted ecological interactions, and altered epidemiological patterns. Prerequisites: BIOL 300 with a grade of "C" or better, and an upper-division lab course in ecology (BIOL 349, 450, or 455) or consent of instructor. (4 units)

522. Population Genetics
Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 423 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. 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, 423, 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 400, or BIOL 300 with a grade of "C" or better and consent of instructor. (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 400, or BIOL 300 with a grade of "C" or better and consent of instructor. (5 units)

575. Internship in Biology
Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units may be applied towards the biology major requirements. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration.
A. General (2 units)
B. Pre-Health (2 units)
C. Biotechnology (2 units)
D. Wildlife Biology (2 units)
E. Botany (2 units)
F. Science Education (2 units)
G. Museum Science (2 units)

576. Endocrinology
Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. 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. Four 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)

591. Biology Seminar
Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the undergraduate major requirements in Biology. May be taken three times for credit toward elective units in the Master of Science program in Biology. Lecture only. Graded credit/no credit. Formerly BIOL 390. Prerequisite: BIOL 300 with a grade of "C" or better. (1 unit)

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)

596. Independent Research
Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 596 may be applied toward graduation. Graded credit/no credit. Formerly BIOL 595. All students will be required to present research findings at least once per academic year at quarterly Biology Department colloquium until their projects are complete. All students will be required to attend the Biology Department colloquium each quarter until their projects are completed. 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 file 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. (1-6 units)

597. Directed Study in Science Education
Readings and library research on the pedagogical content knowledge of a specific area of biology. This course should be taken concurrently with or shortly after taking an upper-division course in the relevant area of biology. Graded credit/no credit. May be repeated for credit. No more than two units may be applied toward degree requirements for the BA in Biology-Integrated Teaching Track; no more than two units may be applied toward biology elective requirements in other degree options. 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 unit)
CAREER AND TECHNICAL STUDIES

College of Education, Room 335
(909) 537-5290  VE.CSU.SB.EDU

Bachelor of Arts
Career and Technical Studies

Bachelor of Science
Career and Technical Studies

Master of Arts in Education
Career and Technical Education Option
(Degree requirements can be found on Page 425.)

FACULTY: Ron Pendleton, Joseph Scarcella

B.A. IN CAREER AND TECHNICAL STUDIES

Requirements (74-85 units)

Total units required for graduation: 180

Admission to the Program

The Bachelor of Arts in Career and Technical Studies (BCTS) is designed to provide candidates with significant occupational and teaching experience the opportunity to have that experience count as partial credit toward a baccalaureate degree. Applicants must possess a high school diploma or its equivalent and five years of work experience and/or education directly related to each subject the candidate teaches.

In order to qualify for a Career and Technical Evaluation of Competency (CTEC) applicant must have at least three years of full-time work experience, at least 1500 clock hours of teaching experience.

Applicants must be admitted to the university and should take ECTS 335. Introduction to Career and Technical Studies within the first academic year.

Requirements for Graduation

1. 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;
   b. At least 60 of these units must be in upper-division course work;
   c. Eighty-two of these units must be in the area of general education as specified in the general education requirements, Page 68;
   d. Thirty-four to 45 of these units must result from Career and Technical Evaluation of Competency (CTEC) of the applicant's occupational and teaching experience;
   e. Forty of these units must be in the Career and Technical Studies courses;
   f. Twenty-four of these units will consist of electives;
2. Students must earn a grade point average of 2.0 ("C") or better in all work attempted and 3.0 ("B") or better in all professional education courses attempted;
3. Students must complete the upper-division writing requirement (EDUC 306);
4. Students must complete the history, constitution and government requirements (see Page 71);
5. Students must be recommended for graduation by the faculty of the university.

Requirements for the B.A. in Career and Technical Studies:

Career and Technical Studies courses (40 units)

1. ECTS 335. Introduction to Career and Technical Studies (4)
2. ECTS 435. Trends and Issues in Career and Technical Programs (4)
3. ECTS 501. Principles and Methods for Teaching Designated Subjects (4)
4. ECTS 502. Instructional Support for Teaching Designated Subjects (4)
5. ECTS 503. Contemporary Issues in Teaching Designated Subjects (4)
6. ECTS 504. Principles of Career and Technical Education (4)
7. ECTS 518. Field Work in Designated Subjects (4)
8. ECTS 519. Computer Applications for Career and Technical Educators (4)
9. ECTS 520. Curriculum Development for Career and Technical Programs (4)
10. ECTS 521. Assessing Student Progress (4)

Career and Technical Evaluation of Competency (CTEC) (34-45 units)

1. The equivalent of 34-45 quarter units of experience must be verified through written examinations, portfolios, personal interviews, demonstrations, and/or other appropriate means of documentation.

B.S. IN CAREER AND TECHNICAL STUDIES

Requirements (76 units)

Total units required for graduation: 182

Admission to the Program

The Bachelor of Science degree with a major in Career and Technical Studies is designed primarily to provide opportunity for transfer students from Community College programs to continue on a career path toward towards a well-rounded academic baccalaureate degree consistent with their goals in career and technical studies. To enter the program, students must have a minimum of 90 quarter units of acceptable coursework with a GPA of at least 2.0 from an accredited community college or university, in a program related to Career and Technical Studies, or approval of the academic advisor. To receive transfer credit from a community college, the courses must meet the articulation agreements between the community colleges and the CSU and CSUSB.

Requirements for Graduation

1. Students must complete a minimum of 182 quarter units.
   1. A minimum of 90 of these units must be lower-division requirements completed at an accredited university or met consistent with existing Community College Articulation agreements;
   2. 92 of these units must be upper-division classes from the three program areas below and be completed as a regularly enrolled student at this university;
2. Students must earn a grade point average of 2.0 ("C") or better in all work attempted;
3. Students must complete the upper-division writing requirement and three capstone courses (12 units) requirements;
4. Students must complete 40 required units, 16 from Career and Technical Studies, 12 from Instructional Technology and 12 from Entrepreneurship as indicated in a specific program plan developed in conjunction with a program advisor;
5. Students must complete 36 units of upper division electives, 12 units from each of the three areas below.
Degree Requirements (76 units)

Career and Technical Studies (28 units)

Students must complete 16 required units and 12 elective units from this area as specified in a program plan developed with a program advisor.

1. ECTS 501. Principles and Methods of Teaching Designated Subjects (4)
2. ECTS 502. Instructional Support for Teaching Designated Subjects (4)
3. ECTS 503. Contemporary Issues in Teaching Designated Subjects (4)
4. ECTS 504. Principles of Adult Education (4)
5. Twelve units chosen from:
   - ECTS 508. Organization and Structure of Career and Technical Programs (4)
   - ECTS 509. Personnel Management in Career and Technical Programs (4)
   - ECTS 510. Field Work in Coordination and Supervision in Career and Technical Programs (4)
   - ECTS 518. Field Work in Designated Subjects (4)
   - ECTS 519. Computer Applications for Career and Technical Educaters (4)
   - ECTS 520. Curriculum Development for Career and Technical Programs (4)
   - ECTS 521. Assessing Student Progress (4)
   - ECTS 522. Directing and Managing Occupational Programs (4)
   - ECTS 523. Learning Theory and Instructional Research Applied to Adult Learners (4)

Instructional Technology (24 units)

Students will complete 12 required units and 12 elective units from this area as specified in a program plan developed with a program advisor.

1. ETEC 501. Principles and Methods for Teaching Designated Subjects (4)
2. ETEC 541. E-Learning Design and Development (4)
3. ETEC 542D. Seminar in Instructional Technology (4)
4. Twelve units chosen from:
   - ETEC 500. Foundations of Instructional Technology (4)
   - ETEC 537. Computer Based Technology in Education I (4)
   - ETEC 543. Technology and Learning (4)
   - ETEC 544. Design and Development of Instructional Materials (4)
   - ETEC 546. Computer-Based Technology in Education I (4)
   - ETEC 550. Instructional Materials for English Language Learners (4)

Entrepreneurship (24 units)

Students will complete 16 required units and 8 elective units from this area as specified in a program plan developed with a program advisor.

1. MGMT 543. New Venture Opportunity Analysis (4)
2. MGMT 544. New Venture Development (4)
3. MGMT 545. New Venture Resource Requirements (4)
4. MGMT 549. Launching the Entrepreneurial Venture (4)
5. Eight units chosen from:
   - FIN 420. Entrepreneurial Finance (4)
   - MGMT 422. Small Business Management (4)
   - MGMT 455. Human Resources Management (4)
   - MGMT 515. Small Business Consulting (4)
   - MGMT 541. Commercializing Entrepreneurial Innovation (4)
   - MGMT 547. Managing a Growing Business (4)
   - MGMT 575. Internship in Management (4)
   - MKTG 430. Professional Selling and Sales Management (4)
   - MKTG 460. Retailing (4)
   - MKTG 530. Strategic Entrepreneurship (4)

COURSE OFFERINGS IN
CAREER AND TECHNICAL STUDIES
(ECTS)

Upper Division

335. Introduction to Career and Technical Studies
Introduction to the history, philosophy, literature and organizations of comprehensive vocational, technical and occupational workforce development programs. Formerly EVOC 335. Prerequisite: consent of instructor. (4 units)

435. Trends and Issues in Career and Technical Programs
Assessment of student's ability to integrate knowledge and demonstrate independent critical thinking skills through a capstone project relevant to Career and Technical Program subject matter content. Discussion of current trends and issues relevant to Regional Occupational Programs (ROP), adult education programs, and community college programs. Completion and submission of professional portfolio for Career and Technical Competency Evaluation (CTCE). Formerly EVOC 435. Prerequisites: ECTS 335, 501, 504, 520, and 521. (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. Formerly EVOC 501. (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. Formerly EVOC 502. Prerequisite: ECTS 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. Formerly EVOC 503. Prerequisite: ECTS 501 or consent of instructor. (4 units)

504. Principles of Career and Technical Education
History, philosophy and social significance career and technical education, especially in California; the adult as a student; investigation of the theories and application of the principles of adult education. Formerly EVOC 504. (4 units)

505. Instructional Materials for English Language Learners
Examination of principles and theories for teaching English Language Learners. Emphasis on application of pedagogical and andragogical methodology to design and develop course materials to promote linguistic, academic, and social proficiency. Prerequisites: ECTS 501 and 519 or consent of instructor. Formerly EVOC 505. (4 units)
508. Organization and Structure of Career and Technical Programs
Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to career and technical programs. Formerly EVOC 508. Corequisites: ECTS 509 and 510. (4 units)

509. Personnel Management in Career and Technical Programs
Principles of personnel selection, evaluation, supervision, school law, and related topics as they apply to career and technical programs. Formerly EVOC 509. Corequisites: ECTS 508 and 510. (4 units)

510. Field Work in Coordination and Supervision of Career and Technical Programs
Supervised field work in supervision and coordination of career and technical programs. Students will contract to perform administrative tasks related to site-based instructional programs. Formerly EVOC 510. Corequisites: ECTS 508 and 509. (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. Formerly EVOC 518. Prerequisites or corequisites: ECTS 501 and consent of instructor. (4 units)

519. Computer Applications for Career and Technical Educators
Application of personal computers to prepare written, graphic, data base, telecommunication and interactive media materials that accommodate diverse populations in career and technical education with an emphasis on English learner needs. Three hours lecture and two hours laboratory. Lecture and laboratory sections must be taken concurrently. Formerly EVOC 519. (4 units)

520. Curriculum Development for Career and Technical Programs
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. Formerly EVOC 520. Prerequisite: ECTS 501 or its equivalent. (4 units)

521. Assessing Student Progress
The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Formerly EVOC 521. Prerequisite: ECTS 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. Formerly EVOC 522. Prerequisites: ECTS 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. Formerly EVOC 523. (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. Formerly EVOC 542. Prerequisite: graduate standing or consent of instructor. (1-4 units)
CHEMISTRY AND BIOCHEMISTRY

Accredited by the American Chemical Society

Department of Chemistry and Biochemistry
Chemical Science Building, Room CS-204
(909) 537-5318 chem.csusb.edu

Bachelor of Arts
Chemistry
Chemistry
Biochemistry Option
Integrated Teaching Track

Bachelor of Science
Bioinformatics (See Page 114.)
Chemistry
ACS Certified Option
Biochemistry Option

Master of Science
Earth and Environmental Sciences
(Degree requirements can be found on Page 420.)

Minor
Chemistry

FACULTY: Kimberley Cousins, John Craig (Emeritus), Lee Kalbus (Emeritus), Yu Jung Kim, Ken Mantei (Emeritus), David Maynard, Larry Mink, James Noblet, Dennis Pederson (Emeritus), Ralph Petrucci (Emeritus), Lisa Shamansky, Douglas Smith, Brett Stanley (Chair), John Tate, Shumei Yang, Renwu Zhang

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 science-based fields seeking a major in chemistry should see Page 65 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 (83-85 units)
Total units required for graduation: 180

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

Lower-division requirements (42-44 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. One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:
   Sequence A:
   PHYS 121. Basic Concepts of Physics I (5)
   PHYS 122. Basic Concepts of Physics II (4)
   PHYS 123. Basic Concepts of Physics III (4)
   Sequence B:
   PHYS 221. General Physics I (5)
   PHYS 222. General Physics II (5)
   PHYS 223. General Physics III (5)
7. Biological science
   Five units chosen from:
   BIOL 100. Topics in Biology (5)
   BIOL 200. Biology of the Cell (5)

Upper-division requirements (41 units)
2. CHEM 322. Principles of Organic Chemistry II (5)
4. CHEM 345. Modern Quantitative Analysis (5)
5. CHEM 455. Physical Chemistry I (5)
6. CHEM 456. Physical Chemistry II (5)
7. CHEM 475. Inorganic Chemistry (5)
8. CHEM 590A. Chemistry Seminar I (1)
9. CHEM 590B. Chemistry Seminar II (1)
10. Four additional upper-division units in chemistry.

B.A. IN CHEMISTRY - BIOCHEMISTRY OPTION
Requirements (102-109 units)
Total units required for graduation: 180

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

Lower-division requirements (64-66 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. One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:

**Sequence A:**
- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

**Sequence B:**
- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

7. BIOL 200. Biology of the Cell (5)
8. BIOL 201. Biology of Organisms (5)

10. Organic Chemistry
A minimum of 12 units chosen from:
- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

**Note:** Organic Chemistry requirement may be met by taking CHEM 321, 322 and 323.

Upper-division requirements (38-40 units)

1. CHEM 345. Modern Quantitative Analysis (5)
2. CHEM 436A. Biochemistry I: Lecture (4)
3. CHEM 436B. Biochemistry I: Laboratory (1)
4. CHEM 437A. Biochemistry II: Lecture (3)
5. CHEM 437B. Biochemistry II: Laboratory (1)
6. CHEM 438A. Biochemistry III: Lecture (3)
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)
- 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 I (1)
11. CHEM 590B. Chemistry Seminar II (1)
12. BIOL 300. Cell Physiology (5)

**B.A. IN CHEMISTRY - INTEGRATED TEACHING TRACK**

**Requirements (127-132 units)**

**Total units required for graduation:** 196-198

**Requirements for the B.A. in Chemistry - Integrated Teaching Track**

Students who successfully meet the requirements for the Integrated Teaching Track in Chemistry will earn a B.A. in Chemistry and a Single Subject Preliminary Teaching Credential in Chemistry. In addition to the course requirements listed below, students must complete the following to qualify for a Preliminary Teaching Credential:

1. Successfully complete the California Basic Education Skills Test (CBEST) and the appropriate California Subject Examinations for Teachers (CSET). These exams must be passed before enrolling in ESEC 550A;
2. Submit a Program Application File (PAF) to the Credentials Office, CE-102;
3. Identify an advisor who is approved by the chairs of the Chemistry and Biochemistry Department and the Department of Science, Mathematics, and Technology Education;
4. Provide verification of a negative tuberculin examination within the last 24 months, and submit an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Academic Achievement
Applicants must maintain the following minimum grade point averages:
   A. A grade point average of 2.75 in all baccalaureate course work.
   B. 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 professional education courses. They can only repeat two of these courses.
6. Course work taken at another institution, or more than seven years ago, is subject to approval by the chairs of both the School of Chemistry and Biochemistry and the Department of Science, Mathematics, and Technology Education.

**Requirements for the B.A. in Chemistry – Integrated Teaching Track:**

**Lower-division requirements (49-51 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. One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:

**Sequence A:**
- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

**Sequence B:**
- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

7. Organic Chemistry
- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

**Note:** Organic Chemistry requirement may be met by taking CHEM 321, 322 and 323.

**Upper-division requirements (30 units)**

1. Four units chosen from:
- NSCI 300. Science and Technology (4)
- NSCI 310. The Environment and Human Survival (4)
- NSCI 314. Life in the Cosmos (4)
- NSCI 315. Natural Disasters (4)
- NSCI 320. Energy (4)
2. CHEM 345. Modern Quantitative Analysis (5)
3. Ten units chosen from:

**Sequence A:**
- CHEM 455. Physical Chemistry I (5)
- CHEM 456. Physical Chemistry II (5)
130 / Chemistry and Biochemistry

Sequence B:

1. CHEM 451. Physical Chemistry for Biochemists I (5)
2. CHEM 452. Physical Chemistry for Biochemists II (5)
3. CHEM 453. Physical Chemistry for Biochemists III (5)
4. CHEM 475. Inorganic Chemistry (5)
5. CHEM 590A. Chemistry Seminar I (1)
6. CHEM 590B. Chemistry Seminar II (1)
7. CHEM 597. Directed Study in Science Education (1) for a total of (4)

Education Courses (48 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 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 506L. Curriculum and Instruction in Content Areas: Life and Physical Sciences (4)
8. ESEC 550A. Student Teaching (2)
9. The following courses must be taken together:
   ESEC 512. Assessment Seminar: Designing Instruction (2)
   ESEC 550B. Student Teaching (4)
10. The following courses must be taken together:
    ESEC 513. Assessment Seminar: Assessing Learning (2)
    ESEC 514. Assessment Seminar: Culminating Teaching Experience (2)
    ESEC 550C. Student Teaching (8)

Additionally, students may also find the following courses helpful in preparing for the CSET examination:

ASTR 103. Descriptive Astronomy (5)
ASTR 311. A Cosmic Perspective of Earth (5)
GEOL 309. Earth: The Blue Planet (5)
BIOL 200. Biology of the Cell (5)
BIOL 201. Biology of Organisms (5)
BIOL 202. Biology of Populations (5)
GEOL 101. Introductory Geology (5)
GEOL 250. Historical Geology (5)

B.S. IN CHEMISTRY - ACS CERTIFIED OPTION

Requirements (108 units)
Total units required for graduation: 180

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 (5)
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)
10. PHYS 223. General Physics III (5)

Upper-division requirements (56 units)
2. CHEM 322. Principles of Organic Chemistry II (5)

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
CHEM 421. Intermediate Organic Chemistry

4. CHEM 345. Modern Quantitative Analysis (5)
5. CHEM 436A. 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. Instrumental Analysis (6)
11. CHEM 576. Advanced Inorganic Chemistry (4)
12. CHEM 590A. Chemistry Seminar I (1)
13. CHEM 590B. Chemistry Seminar II (1)
14. Four additional upper-division units in chemistry.

Additional Requirements (4 units)
1. Applied mathematics
   Four units chosen from:
   MATH 252. Multivariable Calculus II (4)
   MATH 270. Elementary Differential Equations (4)
   MATH 331. Linear Algebra (4)
2. CHEM 599. Undergraduate Comprehensive Examination (0) covering the major field of study, to be taken during the senior year.

B.S. IN CHEMISTRY - BIOCHEMISTRY OPTION

Requirements (109-113 units)
Total units required for graduation: 180-181

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 (5)
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 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)
PHYS 223. General Physics III (5)
BIOL 200. Biology of the Cell (5)
BIOL 201. Biology of Organisms (5)
BIOL 202. Biology of Populations (5)

Upper-division requirements (57-61 units)
2. CHEM 322. Principles of Organic Chemistry II (5)
MINOR IN CHEMISTRY

Requirements (56-61 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. A minimum of twelve units, choose Group A or B below:
   Group A:
   - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
   - CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
   - Choose 6 units from:
     - CHEM 320. Microorganisms (6)
     - BIOL 400. Molecular Biology (5)
     - BIOL 423. Genetics (5)
     - BIOL 424. Comparative Animal Physiology (6)
     - BIOL 431. Comparative Plant Physiology (6)
     - BIOL 440. Principles of Development (5)
     - BIOL 580. Neurobiology (4)

   Group B:
   - CHEM 322. Principles of Organic Chemistry II (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. CSUSB physics sequences that satisfy this requirement are:
   Sequence A:
   - PHYS 121. Basic Concepts of Physics I (5)
   - PHYS 122. Basic Concepts of Physics II (4)
   - PHYS 123. Basic Concepts of Physics III (4)
   Sequence B:
   - PHYS 221. General Physics I (5)
   - PHYS 222. General Physics II (5)
   - PHYS 223. General Physics III (5)
7. Ten additional upper-division units in chemistry. The following courses may not be used to satisfy this requirement:
   - CHEM 301, 590A, 590B, or 597.
   - CHEM 599. Undergraduate Comprehensive Examination (0) covering the major field of study, to be taken during the senior year.

TEACHING CREDENTIAL PROGRAM

Teaching Credential 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. ASTR 103. Descriptive Astronomy (5)
2. Five units chosen from:
   - ASTR 311. A Cosmic Perspective of Earth (5)
   - GEOL 250. Historical Geology (5)
3. BIOL 200. Biology of the Cell (5)
4. BIOL 201. Biology of Organisms (5)
5. BIOL 202. Biology of Populations (5)
6. GEOL 101. Physical Geology (5)
7. GEOL 250. Historical Geology (5)
8. NSCI 300. Science and Technology (4)

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

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements:

1. At least a 3.5 average in all chemistry course work taken at the university with a minimum being five chemistry courses;
2. At least a 3.0 ("B") average on the comprehensive examinations;
3. An "A" (4.0) in CHEM 595. Independent Study or another demonstration of ability to do independent work in chemistry.

COURSE OFFERINGS IN

CHEMISTRY (CHEM)

Lower Division

100. Chemistry in the Modern World (FWS)
Examination of chemistry 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=B3) (5 units)
105. Chemicals in Our Environment (FWS)
Examination of a current issue related to chemicals in our environment with focus on chemical principles and the interplay between chemical technology and society. Lecture only. (GE=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=B3) (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=B3) (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. (6 units)

221. Organic Chemistry I (F)
A. Lecture. The chemistry of carbon compounds, including modern concepts of structure, mechanism, and reactivity. Emphasis is placed on compounds and reactions of biological interest; and includes an introduction to selected topics in biochemistry. Taking the lecture sequence (CHEM 221A, 222A, and 223A) without the lab sequence (CHEM 221B, 222B, and 223B) is inappropriate for premedical, 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. Prerequisites: CHEM 215 with a grade of "C" or better and CHEM 216 with a grade of "C-" or better. (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 (W)
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 (S)
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. (1-2 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)

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. Prerequisites: CHEM 215 and 216 with grades of "C" or better in each course. (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)

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 (FS)
Gravimetric and volumetric analysis, chemical equilibria, and modern instrumental methods. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 245. Prerequisite: CHEM 216 with a grade of "C" or better. (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 (FW)
A. Lecture. Structure and function of proteins, carbohydrates, and lipids. Four hours lecture. Formerly CHEM 436. Prerequisites: either CHEM 223 or 323 with a grade of "C" or better, and BIOL 200. (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)
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 (S)
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)

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 345, 436A, and 436B with grades of "C" or better; 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 or a B.S. in Chemistry, ACS Certified Option. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 435. (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 345 with a grade of "C" or better; MATH 213; and must have completed PHYS 123 or may take PHYS 223 as a pre- or corequisite. 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. in Chemistry, Chemistry Option or B.S. in Chemistry, ACS Certified 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 (S)
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)

501. Advanced Laboratory Techniques (FWS)
Advanced laboratory course on a subject relative to one of the main divisions of chemistry. May be repeated for credit, however only four units may be counted as upper-division elective units for either a major or minor in chemistry. Final written report required. Materials fee required. Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor. (1-2 units)

545. Instrumental Analysis (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 on- or off-campus setting. Final written report may be required. May be repeated for credit with department consent. A total of four units may be applied towards obtaining a bachelors degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit. Prerequisites: course work appropriate to the specific internship and consent of department. (1-5 units)

576. Advanced Inorganic Chemistry (F-alt yr)
Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. Prerequisites: 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 twice for credit toward the major requirements for graduation. Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent.
A. I. Lecture only. Final written report required. (1 unit)
B. II. 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. Materials fee required. 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. (1-6 units)
597. Directed Study in Science Education
Readings, library research or a directed project on the pedagogical content knowledge of a specific area of chemistry, conducted under the direction of a faculty member. Graded credit/no credit. May be repeated for credit. No more than four units may be applied toward degree requirements for the B.A. in Chemistry, Integrated Teaching Track. May not be counted as elective units for the B.A. in Chemistry, Chemistry Option; B.A. in Chemistry, Biochemistry Option; B.S. in Chemistry, ACS Certified Option, or the B.S. in Chemistry, Biochemistry Option. Prerequisites: consent of instructor and departmental approval of a written proposal. (1 unit)

599. Undergraduate 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. Graded credit/no credit. Prerequisite: student must be a chemistry major within three quarters of graduation. (0 units)

Graduate level courses can be found on Page 401.
COMMUNICATION

Department of Communication Studies
University Hall, Room 018
(909) 537-5815 communication.csusb.edu

Bachelor of Arts
Communication
with concentrations in
Human Communication
Intercultural Communication
Mass Communication
Public Argumentation and Rhetoric
Public Relations

Teacher Preparation Program
English - Communication Studies Concentration

Minors
Communication
Film Studies
Intercultural Communication
Public Relations
Script Writing

Certificate Programs
Communication Skills
Conflict Management (See Page 406)

Master of Arts
Communication Studies
(Degree requirements can be found on Page 404)

FACULTY: Ece Algan, Mo Bahk, Nathan Carter, Rueyling Chuang, Mary Fong, Donna Golch, Jo Anna Grant, Brian Heisterkamp, C. Rod Metts, Ahlam Muhtaseb, Bradford Owen, Mihaela Popescu, Astrid Sheil

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, digital media), 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. Internships are available on and off campus in the full range of communication professions.

B.A. IN COMMUNICATION
Requirements (77 units) (see Addendum for program changes)

Total units required for graduation: 180

Requirements for the B.A. in Communication:
Core Courses (21 units)
1. COMM 200. Introduction to Communication Studies (4)
2. COMM 304. Intercultural Communication (4)
3. COMM 306. Communication Theory (4)
4. COMM 400. Communication Research Methodologies (4)
5. COMM 491. Ethical Aspects of Communication (4)
6. COMM 499. Senior Project (1)

Communication Practica (8 units)
1. Students must choose eight units from at least two of the following:
   COMM 243A. Communication Practicum: Print and Online Journalism (3)
   COMM 243B. Communication Practicum: Radio (3)
   COMM 243C. Communication Practicum: Video Production for Online Journalism (3)
   COMM 243D. Communication Practicum: Public Relations (3)
   COMM 382. Intercollegiate Forensics (3)
   COMM 399. Community Service Project (1-2)
   COMM 444A. Advanced Communication Practicum: Television Production (3)
   COMM 444B. Advanced Communication Practicum: Research (3)
   COMM 444C. Advanced Communication Practicum: Research (3)
   COMM 444D. Advanced Communication Practicum: Mentoring (3)
   COMM 591. Internship/Externship in Communication (2-5)

Electives (20 units)
1. Twenty units in addition to those chosen in the concentration, of which 16 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 309. Digital Media and 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)
COMM 344. Public Relations Communication (4)
COMM 364. Topics in Human Communication (4)
COMM 403. Interpersonal Relations (4)
COMM 411. Gender and Communication (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 560. Health Communication (4)
COMM 564. Advanced Topics in Human Communication (4)
COMM 595. Independent Study (2-5) for a maximum of (5)

Intercultural Communication Concentration
1. Twenty-eight units chosen from:
   COMM 302. Communication, Language and Culture (4)
   COMM 309. Digital Media and Communication (4)
   COMM 366. Topics in Intercultural Communication (4)
   COMM 401. Gender, Race and Media (4)
   COMM 402. Ethnography of Communication (4)
   COMM 409. Latina/os, Media and Culture (4)
   COMM 410. Asian Media and Culture (4)
   COMM 422. Communication and Conflict (4)
   COMM 471. International Communication (4)
   COMM 522. Mediation Theory and Practice (4)
   COMM 550. Muslim Women in Media and Society (4)
   COMM 566. Advanced Topics in Intercultural Communication (4)
   COMM 580. Culture and Ethnicity in Language (4)
   COMM 581. Contemporary Theories of Rhetoric (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. COMM 240. Writing for Media (4)
2. COMM 320. Media History and Institutions (4)
3. COMM 321. Media and Culture (4)

Electives (16 units)
1. Sixteen units chosen from:
   COMM 245. Introduction to TV and Video Production (5)
   COMM 309. Digital Media and Communication (4)
   COMM 311. Business and Professional Communication (4)
   COMM 335. Introduction to Digital Video Editing (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 348. Television News Writing and Reporting (4)
   COMM 349. Online Reporting and Writing (4)
   COMM 350. Online Journalism Production (4)
   COMM 352. Entertainment Media Management (4)
   COMM 365. Topics in Mass Communication (4)
   COMM 378. Contemporary Cinema and Society (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 409. Latina/os, Media and Culture (4)

2. COMM 402. Ethnography of Communication (4)
3. COMM 409. Latina/os, Media and Culture (4)
4. COMM 410. Asian Media and Culture (4)
5. COMM 415. Advertising as Social Communication (4)
6. COMM 424. Film Analysis (4)
7. COMM 425. Film and New Media (4)
8. COMM 442. Public Relations Campaigns (4)
9. COMM 448. Documentary Production (4)
10. COMM 449. Fiction Production (4)
11. COMM 450. Audience Research and Analysis (4)
12. COMM 471. International Communication (4)
13. COMM 481. History and Development of Documentary (4)
15. COMM 506. Media Sex and Violence (4)
16. COMM 550. Muslim Women in Media and Society (4)
17. COMM 565. Advanced Topics in Mass Communication (4)
18. COMM 595. Independent Study (2-5) for a maximum of (5)

Public Argumentation and Rhetoric Concentration
1. Twenty-eight units chosen from:
   COMM 204. Introduction to Critical Communication Studies (4)
   COMM 302. Communication, Language and Culture (4)
   COMM 305. Critical Approaches to Communication (4)
   COMM 308. Argumentation (4)
   COMM 309. Digital Media and Communication (4)
   COMM 312. Persuasion (4)
   COMM 341. Public Relations Theory and Principles (4)
   COMM 344. Public Relations Communication (4)
   COMM 363. Topics in Public Argumentation and Rhetoric (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 511. Feminist Contributions to Communication Theories (4)
   COMM 543. Environmental Communication (4)
   COMM 563. Advanced Topics in Public Argumentation and Rhetoric (4)
   COMM 581. Contemporary Theories of Rhetoric (4)
   COMM 595. Independent Study (2-5) for a maximum of (5)

Public Relations Concentration
Core (20 units)
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)

Electives (8 units)
1. Eight units chosen from:
   COMM 243D. Communication Practicum: Public Relations (3)
   COMM 309. Digital Media and Communication (4)
   COMM 311. Business and Professional Communication (4)
   COMM 312. Persuasion (4)
   COMM 342. Publication Design and Makeup (4)
   COMM 367. Topics in Public Relations (4)
   COMM 380. Visual Communication (4)
   COMM 415. Advertising as Social Communication (4)
   COMM 421. Organizational Communication (4)
   COMM 450. Audience Research and Analysis (4)
   COMM 502. Communication Law and Policy (4)
   COMM 520. Integrated Marketing Communication (4)
   COMM 567. Advanced Topics in Public Relations (4)
   COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)
   PA 307. Public Relations in the Public Sector (4)
**Individualized Concentration**

Students may propose a unique, individualized 28-unit concentration if the proposed concentration has curricular integrity and if it fulfills objectives that cannot be met through one of the concentrations listed above. Proposals, which require departmental approval, must be submitted no later than the student's junior year. Only 12 units of course work completed prior to such approval can be applied toward an individualized concentration. Consult the department chair for exceptions that may apply to students at the Palm Desert campus.

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**TEACHER PREPARATION PROGRAM**

**English Teacher Preparation Program - Communication Studies Concentration**

In order to complete the English teacher preparation program (for students who wish to be recommended for a single subject English teaching credential) with a concentration in Communication Studies, students must complete the courses listed in the core of the B.A. in English (lower-division requirements 1-2 and upper-division requirements 1-8 found on Page 182), as well as the following:

### Lower-division requirements (4-5 units)

1. ENG 110. World Literature I (4)
2. HUM 180. The Art of Film (4)
3. ART 290. Beginning Photography (5)
4. COMM 245. Introduction to TV and Video Production (5)
5. ENG 160. World Drama (4)

### Upper-division requirements (24-27 units)

6. Four units chosen from:
   - ENG 240. Writing in the Public Sphere (4)
   - ENG 312. Theories of Language Acquisition and Learning (4)
   - ENG 327. Literature for Adolescents and Young Adults (4)
   - ENG 329. Issues in Literacy and Writing Studies (4)
   - ENG 420. Pedagogical Grammar (4)
   - ENG 510. English in the Secondary Classroom (4)

7. Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.

8. 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)

   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 170 or contact the Credentials Office, CE-102.

   **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.

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**MINOR IN COMMUNICATION**

**Requirements (28 units)**

**Requirements for a minor in Communication:**

**Lower-division requirements (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.

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**MINOR IN FILM STUDIES**

**Requirements (28-32 units)**

**Requirements for a minor in Film Studies:**

**Lower-division requirements (4-5 units)**

1. Four or five units chosen from:
   - ART 290. Beginning Photography (5)
   - COMM 245. Introduction to TV and Video Production (5)
   - ENG 160. World Drama (4)
   - HUM 180. The Art of Film (4)
   - TA 160. World Drama (4)

**Upper-division requirements (24-27 units)**

2. Four units chosen from:
   - COMM 378. Contemporary Cinema and Society (4)
   - COMM 424. Film Analysis (4)
   - COMM 425. Film and New Media (4)

3. Twelve to 15 units chosen from either or both of these two categories:

   **Film and New Media Theory and Criticism**

   - COMM 320. Media History and Institutions (4)
   - COMM 321. Media and Culture (4)
   - COMM 381. Development of Motion Pictures (4)
   - COMM 410. Asian Media and Culture (4)
   - COMM 481. History and Development of Documentary (4)

   May choose only one of the following two courses:
   - ENG 463. Advanced Studies in Literary Topics (4) (when the topic is Film and Literature)
   - ENG 502. History of Film and New Media (4)

   **New Media Production**

   - ART 330. Animation and Web Motion-Graphics (5)
   - ART 387. Video Art (5)
   - COMM 345. Advanced TV-Video Production (5)
   - COMM 346. TV-Video Field Production (5)
   - COMM 347. Fundamentals of Screenwriting (4)
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:
   COST 366. Topics in Intercultural Communication (4)
   COMM 401. Gender, Race and Media (4)
   COMM 402. Ethnography of Communication (4)
   COMM 522. Mediation Theory and Practice (4)
   COMM 580. Culture and Ethnicity in Language (4)
   COMM 581. Contemporary Theories of Rhetoric (4)
   COMM 593. Communication Approaches to Area Studies (4)
   COMM 595. Independent Study (2-5) for a maximum of (5)

MINOR IN PUBLIC RELATIONS
Requirements (28 units)

Requirements for a minor in Public Relations:

Lower-division requirements (4 units)
1. COMM 240. Writing for Media (4)

Upper-division requirements (16 units)

1. COMM 341. Public Relations Theory and Principles (4)
2. COMM 344. Public Relations Communication (4)
3. COMM 442. Public Relations Campaigns (4)
4. COMM 542. Issue Management and Crisis Communication (4)

Electives (8 units)

1. Eight units chosen from:
   COMM 243D. Communication Practicum: Public Relations (3)
   COMM 311. Business and Professional Communication (4)
   COMM 312. Persuasion (4)
   COMM 421. Organizational Communication (4)
   COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)
   PA 307. Public Relations in the Public Sector (4)

MINOR IN SCRIPT WRITING
Requirements (28 units)

Requirements for a minor in Script Writing:

Lower-division requirement (4 units)

1. Four units chosen 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)
2. Four units chosen from:
   ENG 302B. Analysis and Writing of Drama (4)
   TA 302B. Analysis and Writing of Drama (4)
3. TA 347. Playwriting (4)
4. Four units chosen from:
   ENG 316. Introduction to Creative Writing: Specialized Genres (4)
   ENG 317. Introduction to Creative Writing: Poetry (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.

DEPARTMENTAL HONORS

Students majoring in communication are eligible to receive honors in communication at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.5 or better;
4. An independent study course that culminates in a research presentation to the department;
5. Recommendation for departmental honors by the Communication Studies faculty.

Students interested in this recognition must file a formal application with the department at least three quarters prior to graduation

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 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)
2. Intercultural Communication
   Four units chosen from:
   - COMM 304. Intercultural Communication (4)
   - COMM 411. Gender and Communication (4)

3. Interpersonal Communication
   Four units chosen from:
   - COMM 221. Small Group Communication (4)
   - COMM 225. Fundamentals of Interpersonal Communication (4)
   - COMM 331. Communication for Training Programs (4)
   - COMM 403. Interpersonal Relations (4)
   - COMM 441. Interviewing (4)

4. Public Relations
   Four units chosen from:
   - COMM 341. Public Relations Theory and Principles (4)
   - PA 307. Public Relations in the Public Sector (4)

5. Journalism
   Eight units chosen from:
   - COMM 240. Writing for Media (4)
   - COMM 342. Publication Design and Makeup (4)
   - COMM 343. Nonfiction Reporting and Writing (4)

6. Media
   Two courses for a minimum of four units chosen from:
   - ART 290. Beginning Photography (5)
   - COMM 381. The Development of Motion Pictures (4)
   - MUS 266. Introduction to Computer and Electronic Music (4)
   - MUS 267. Introduction to Studio Recording Techniques (4)
   - MUS 519. Audio Production (2)
   - TA 253. Voice for the Stage (2)

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**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) (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) (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. (4 units)

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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. (4 units)

240. Writing for Media
   Development of basic writing skills and practices appropriate for print, electronic, and digital media. Prerequisites: satisfaction of the GE written communication (A1) requirement and word processing ability. (4 units)

243. Communication Practicum
   Practical application of communication skills. COMM 243A, 243B, 243C, 243D may each be taken twice for credit. For the practicum courses of COMM 243, 382, 399 and 444, no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.
   A. Print and Online Journalism (3 units)
   B. Radio (3 units)
   C. Video Production for Journalism. Prerequisite: COMM 243A. (3 units)
   D. Public Relations (3 units)

245. Introduction to TV and Video Production
   Introduction to equipment, theory and procedures used in studio production of television and video programming. Camera, VTR, switcher, lighting, audio character generation, and the roles of crew members will be examined. Basic principles of pictorial composition and aesthetics of the video medium for a variety of applications will also be introduced. Four hours lecture and two hours activity laboratory. (5 units)

**Upper Division**

302. Communication, Language and Culture
   Contemporary theories of language as they relate to the communication process, including the coding system of signs, symbols, and meanings of cultural groups. (4 units)

304. Intercultural Communication
   Description and analysis of cultural and gender factors in communication such as perception, value systems, language codes and nonverbal communication. Overcoming the communication problems that can result when members of different cultures communicate. (GE=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 Theory
   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. Digital Media and Communication
   Theory, research, and history related to the impact of digital technologies on communication and society. Students will acquire knowledge and think critically about digital media communication processes and cultures in a variety of contexts. (4 units)
311. Business and Professional Communication
Presentation skills and techniques used in sales, business, professional and technical fields for the communication of information. Special emphasis on technological resources for corporate communication. Prerequisite: COMM 120 or equivalent. (4 units)

312. Persuasion
Study and application of rhetorical, social-psychological and mass behavior principles. (4 units)

320. Media History and Institutions
A historical examination of media institutions prominent in contemporary culture. Particular attention paid to media industry development and policies and processes of media production, past and present. Prerequisite: COMM 200. (4 units)

321. Media and Culture
Analysis of media texts and products as they relate to issues of social impact, identity, representation and economics. Prerequisite: completion of or concurrent enrollment in COMM 320 or consent of instructor. (4 units)

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)

334. Travel Feature Writing
Mastery of essay, service, and destination travel writing, among other travel writing forms. Interpreting reporting, researching, organizing, drafting and editing travel writing. Taught during summer study-abroad program in Italy. Graded credit/no credit. (4 units)

335. Introduction to Digital Video Editing
Theory and practice of digital video editing. Developing the narrative language of the live action material, whether fictional, documentary, or musical; composing effective visual/sound design; and establishing pace and rhythm in editing. Training in software applications for moving image editing, program titling, and visual effects. Formerly a topic under COMM 365. (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, typographics, 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)

348. Television News Writing and Reporting
Reporting and writing for television news and community programming. Will include writing and editing a newscast, field reporting and research techniques, and writing for visual production. Formerly a topic under COMM 365. (4 units)

349. Online Reporting and Writing
Advanced writing of online journalism, including reporting, researching, writing and editing of articles for various beats or specialties, including politics, criminal justice, environment, entertainment and arts, sports and business. Prerequisite: COMM 240. (4 units)

350. Online Journalism Production
Accelerated multimedia design and production of current online journalism. Online storytelling; website planning, organization and production; and creation of comprehensive multimedia news packages combining videography, stills, sound; and written broadcast, online, and print content. Current issues in online publishing and ethics. Prerequisite: COMM 240. (4 units)

352. Entertainment Media Management
Examines issues in the management of film, radio, television, and internet-based entertainment media in the context of a rapidly evolving entertainment industry environment. Prerequisites: COMM 320, MGMT 302, or consent of instructor. (4 units)

363. Topics in Public Argumentation and Rhetoric
Special topics in public argumentation and rhetoric. May be repeated for credit as topics change. (4 units)

364. Topics in Human Communication
Special topics in human communication. May be repeated for credit as topics change. Formerly COMM 585. (4 units)

365. Topics in Mass Communication
Special topics in mass communication. May be repeated for credit as topics change. Formerly COMM 386 and 587. (4 units)

366. Topics in Intercultural Communication
Special topics in intercultural communication. May be repeated for credit as topics change. Formerly COMM 588. (4 units)

367. Topics in Public Relations
Special topics in public relations. May be repeated for credit as topics change. (4 units)
378. Contemporary Cinema and Society
Contemporary cinema and cultural modernity and postmodernity in film topics of stardom, authorship, culture industries, globalized blockbuster cinema, audiences, and the politics of representation. Formerly a topic under COMM 365. (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, 362, 399, 444A, 444B, 444C 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 skills in the area of communication to community service 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. For the practicum courses of COMM 243, 382, 399 and 444, no more than nine total units from any combination of these courses may be applied toward the major. 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. (1-2 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)

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)

410. Asian Media and Culture
Critical survey of Asian popular media and their relevance to Asian cultures. Explores Asian films, TV programs, print media, digital media and the extent to which they represent Asian cultures. Topics include (but not limited to) Japanese animation, Chinese martial arts genre, Bollywood films, Korean TV soap operas, and Asian cybercultures. (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)

424. Film Analysis
Analysis of films using various theoretical frames. Emphasis on understanding and interpreting filmmakers’ uses of form and style in picture and sound, including within-frame composition, image juxtaposition through editing, and sound design. (4 units)

425. Film and New Media
Surveys theories, artistic movements and cultural artifacts that helped set the stage for incorporating new technologies into film production, making the transition to new delivery platforms, and creating a new, post-humanist consciousness in spectators. (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. Prerequisite: COMM 344. (4 units)
444. Advanced Communication Practicum
Advanced application of communication theory and methods. COMM 444A, 444B, 444C and 444D may each be taken twice for credit. For the practicum courses of COMM 243, 382, 399 and 444, 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)
C. Research. Prerequisites: COMM 306 and 400. (2 units)
D. Mentoring. Prerequisite: COMM 225, 331 or 403 or equivalent or permission of instructor. (3 units)

447. Italian Cinema
Historical, theoretical, and interpretive approaches to Italian cinema, from postwar Neo-Realism to the post-modernist millennial era. Taught during summer study-abroad program in Italy. Graded credit/no credit. (4 units)

448. Documentary Production
Digital video documentary production course with emphasis on research and pre-production planning, shooting, and editing through lectures, workshops, screenings and field production. Working in crews, students plan, shoot and finish short documentary projects. Recommended that students have completed a draft treatment for a short documentary before the course begins. Prerequisites: COMM 245, 345 and 346. (4 units)

449. Fiction Production
Fiction/dramatic digital video production course with emphasis on producing, shooting, lighting and sound recording through lectures, workshops, screenings and field production. Working in crews, students plan, shoot and edit fiction projects. Recommended that students have completed a draft treatment for a fiction short before the course begins. Prerequisites: COMM 245, 345, and 346. (4 units)

450. Audience Research and 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. Prerequisites: COMM 200, 304, 306, 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 365. (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. 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. Prerequisite: COMM 344 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)

550. Muslim Women in Media and Society
A cross-disciplinary and case study-based approach to the subject of Muslim women across several different regions and contexts, focusing particularly on their position in society and their representation in media. Formerly a topic under COMM 365 and 565. (4 units)
Health Communication
Advanced study of issues, contexts, and theories of health communication. Examines health issues in various communication contexts such as interpersonal, intercultural, organizational and mediated communication. Formerly a topic under COMM 364. Prerequisites: COMM 200 and 306, or consent of instructor. (4 units)

Advanced Topics in Public Argumentation and Rhetoric
Advanced special topics in public argumentation and rhetoric. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

Advanced Topics in Human Communication
Advanced special topics in human communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

Advanced Topics in Mass Communication
Advanced special topics in mass communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

Advanced Topics in Intercultural Communication
Advanced special topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

Advanced Topics in Public Relations
Advanced special topics in public relations. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

Culture and Ethnicity in Language
Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. Prerequisite: COMM 304 or equivalent. (4 units)

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)

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. (2-5 units)

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)

Independent Study
Special topics involving library research, experimental or field research, or media production. A total of ten 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. (2-5 units)
COMPUTER ENGINEERING

School of Computer Science and Engineering
Jack Brown Hall, Room 307
(909) 537-5326 cse.csusb.edu

Department of Physics
Physical Sciences Building, Room 119
(909) 537-5397 physics.csusb.edu

Bachelor of Science
Computer Engineering

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
FACULTY: Richard Botting, Arturo Concepcion, George Georgiou, Ernesto Gomez, Yasha Karant, Josephine Mendoza, Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Kerstin Voigt (Director), Tong Yu, Kay Zemoudeh

DEPARTMENT OF PHYSICS FACULTY: Leo Connolly (Emeritus), Paul Dixon (Chair), Karen Kolehmainen, Paul Renteln, Javier Torner, Timothy Usher, Laura Woodney

Computer Engineering is a discipline with historical foundations in computer science and electrical engineering. It is concerned with the study of a variety of topics including circuit design, programmable logic, computer design, computer programming, software engineering, data communication, machine intelligence, robotics, the algorithmic solutions of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and manipulate information, algorithms to process information, hardware systems and technologies to run software, design methodologies for hardware and software systems, and engineering techniques for ensuring the accuracy and cost effectiveness of these processes.

The degree is jointly administered by the School of Computer Science and Engineering and the Department of Physics. The program is housed in the School of Computer Science and Engineering.

B.S. IN COMPUTER ENGINEERING
Requirements (132 units)
Total units required for graduation: 201

Requirements for the B.S. in Computer Engineering:

Lower-division requirements (66 units)
1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CSE 201. Computer Science I (4)
3. CSE 202. Computer Science II (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. MATH 262. Applied Statistics (4)
10. MATH 272. Discrete Mathematics (4)
11. PHYS 150. Analog Electronics (5)
12. PHYS 221. General Physics I (5)
13. PHYS 222. General Physics II (5)
14. PHYS 223. General Physics III (5)
15. PHYS 224. General Physics IV (3)

Upper-division requirements (58 units)
1. CSE 310. Digital Logic (5)
2. CSE 311. Advanced Digital Design (4)
3. CSE 313. Machine Organization (4)
4. CSE 330. Data Structures (4)
5. CSE 401. Contemporary Computer Architectures (5)
6. CSE 403. Circuit Design and Analysis (4)
7. CSE 406. Introduction to Engineering Design (2)
8. CSE 407. Computer Engineering Design (3)
9. CSE 408. Sustainable Engineering Design (4)
10. CSE 455. Software Engineering (4)
11. CSE 460. Operating Systems (4)
12. CSE 535. Numerical Computation (4)
13. PHYS 318. Materials Science and Engineering (4)
14. PHYS 350. Data Acquisition and Control (4)
15. PHYS 373. Mathematical Methods of Physics (4)

Specialization (8 units)
1. Take two courses in one specialization for a total of eight units from one of the following:

Networking and Computer Systems
CSE 350. File Systems (4)
CSE 530. Data Communication and Networks (4)
CSE 531. High Performance Networks (4)
CSE 570. Compilers (4)

High Performance and Embedded Systems
CSE 510. Advanced Computer Architecture (4)
CSE 521. Field Programmable Gate Array Design (4)
CSE 541. Robotics and Control (4)

DEPARTMENTAL HONORS IN COMPUTER ENGINEERING

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" or better (2.0) in any one of the following:
   A. CSE 575. Internship in Computer Science (4)
   B. CSE 595. Independent Study (4)
   C. PHYS 585. Internship in Physics (4)
   D. PHYS 595. Independent Study (4)
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.
3. At least five upper-division computer engineering courses required by the major must be taken at this university. Candidacy for honors in computer engineering 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.
COMPUTER SCIENCE AND ENGINEERING

Accredited by ABET (B.S. in Computer Science)

School of Computer Science and Engineering
Jack Brown Hall, Room 307
(909) 537-5536  cse.csusb.edu

Bachelor of Arts
Computer Systems
  General Interdisciplinary Option
  Game Development Option
  Graphics Programming Option
  Web Programming Option
  System Administration Option

Bachelor of Science
Bioinformatics (See Page 114.)
Computer Engineering (see Page 144.)
Computer Science

Minor
Computer Science

Certificate Program
Computer Systems and Programming

Master of Science
Computer Science
(Degree requirements can be found on Page 409.)

FACULTY: Richard Botting, Arturo Concepcion, George Georgiou, Ernesto Gomez, Yasha Karant, Josephine Mendoza, Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Kerstin Voigt (Director), Tong Yu, Kay Zemoudeh

Computer science is a discipline with historical foundations in science, mathematics and engineering. It is concerned with the study of a variety of topics including computer design, computer programming, information processing, data communication, machine intelligence, robotics, the algorithmic solution of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and display information, algorithms to process information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and cost effectiveness of these processes and the philosophical foundations of computing and machine intelligence.

The Bachelor of Science in Computer Science is a degree program accredited by ABET/CAC guidelines, and as such provides both intellectual depth and breadth in the discipline of computer science. The program emphasizes both fundamentals of computer science and the skills required to apply computer science to application areas, as well as professional ethics. The objective of the program is to prepare the student upon graduation for: immediate entry into a program, software engineering, systems and network administration or similar position in either the public or private sectors; or for graduate education in computer science or a closely related discipline leading to a Master or Doctoral degree. Graduates of the program have been successful both in industry and in graduate school.

The Bachelor of Arts in Computer Systems program emphasizes the application of principles to practical problem solving in a domain of interest. Students complete a core set of foundation courses and coursework in one of the following concentrations: web programming, system administration, game development, graphics programming. Students also have the ability to combine the study of computer systems with another field of study through the general interdisciplinary option.

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.

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 (94-96 units)

Total units required for graduation: 180

Requirements for the B.A. in Computer Systems:

Lower-division requirements (20 units)
1. CSE 201. Computer Science I (4)
2. CSE 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 (26 units)
1. CSE 313. Machine Organization (4)
2. CSE 330. Data Structures (4)
3. CSE 375. Requirements Analysis and Design (4)
4. CSE 455. Software Engineering (4)
5. CSE 482. Senior Interdisciplinary Project (4)
6. CSE 488. Ethics and the Computing Professional (2)
7. COMM 311. Business and Professional Communication (4)

Option Requirement (48-49 units)

Requirements for one of the following options must be satisfied:

General Interdisciplinary Option (48 units)
1. Twenty-four units chosen from CSE courses numbered 300 and above.
2. Twenty-four units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering.

Game Development Option (49 units)
1. CSE 420. Computer Graphics (4)
2. CSE 431. Algorithm Analysis (4)
3. CSE 440. Game Design (4)
4. CSE 441. Game Programming (4)
5. CSE 512. Introduction to Artificial Intelligence (4)
7. CSE 535. Numerical Computation (4)
8. MATH 212. Calculus II (4)
9. MATH 372. Combinatorics (4)
10. PHYS 221. General Physics I (5)
11. Eight units of related project-oriented coursework subject to approval by the School of Computer Science and Engineering.

Graphics Programming Option (48 units)
1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 232. Principles of Design Management (4)
3. CSE 322. Web Page Programming (4)
5. CSE 440. Game Design (4)
6. CSE 441. Game Programming (4)
8. Twenty units of courses covering graphical and digital media subject to approval by the School of Computer Science and Engineering.

Web Programming Option (48 units)
1. CSE 292. Java Programming (4)
2. CSE 322. Web Page Programming (4)
3. CSE 365. Systems Administration (4)
4. CSE 366. Systems Networking (4)
5. CSE 405. Server Programming (4)
6. CSE 557. Computer Systems in Organizations (4)
7. CSE 572. Database Systems (4)
8. CSE 580. Advanced Database Systems (4)
9. Eight units from CSE courses numbered 300 and above.
10. Eight units of courses covering graphical and digital media subject to approval by the School of Computer Science and Engineering.

System Administration Option (50 units)
1. CSE 292. Java Programming (4)
2. CSE 310. Digital Logic (5)
2. CSE 322. Web Page Programming (4)
4. CSE 360. Script Programming (4)
5. CSE 365. Systems Administration (4)
6. CSE 366. Systems Networking (4)
7. CSE 401. Contemporary Computer Architecture (5)
8. CSE 405. Server Programming (4)
9. CSE 460. Operating Systems (4)
10. CSE 557. Computer Systems in Organizations (4)
11. CSE 572. Database Systems (4)

B.S. IN COMPUTER SCIENCE
Requirements (123 units)
Total units required for graduation: 191

Requirements for the B.S. in Computer Science:
Lower-division requirements (53 units)
1. CSE 201. Computer Science I (4)
2. CSE 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)
11. Five units chosen from:
   - BIOL 100. Topics in Biology (5)
   - BIOL 200. Biology of the Cell (5)
12. One additional science course (with lab component), not previously taken, from the following areas:
   - Biology (5)
   - Chemistry (5)
   - Geological Sciences (5)
   - Physics (5)
Upper-division requirements (50 units)
1. CSE 310. Digital Logic (5)
2. CSE 313. Machine Organization (4)
3. CSE 320. Programming Languages (4)
4. CSE 330. Data Structures (4)
5. CSE 350. File Systems (4)
6. CSE 401. Contemporary Computer Architecture (5)
7. CSE 430. Algorithm Analysis (4)
8. CSE 455. Software Engineering (4)
9. CSE 460. Operating Systems (4)
10. CSE 488. Ethics and the Computing Professional (2)
11. CSE 489. Senior Seminar (2)
12. CSE 500. Introduction to Formal Languages and Automata (4)
13. MATH 372. Combinatorics (4)

Electives (20 units)
1. Theory
   Four units chosen from:
   - CSE 501. Introduction to Theory of Computation (4)
   - CSE 512. Introduction to Artificial Intelligence (4)
   - CSE 515. Automated Reasoning (4)
   - CSE 535. Numeric Computation (4)
2. Systems
   Four units chosen from:
   - CSE 540. Systems Simulation (4)
   - CSE 565. Systems Programming (4)
   - CSE 570. Compilers (4)
   - CSE 572. Database Systems (4)
   - CSE 580. Advanced Data Base Systems (4)
3. Hardware
   A minimum of four units chosen from:
   - CSE 510. Advanced Computer Architecture (4)
   - CSE 524. Supercomputing and Visualization (4)
   - CSE 525. Parallel Algorithms and Programming (4)
   - CSE 530. Data Communications and Networks (4)
   - CSE 531. High Performance Networks (4)
4. Eight units 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:
   - MATH 272. Discrete Mathematics (4)
   - MATH 372. Combinatorics (4)
2. CSE 201. Computer Science I (4)
3. CSE 202. Computer Science II (4)
4. CSE 330. Data Structures (4)
5. Twelve units of upper-division CSE courses. These units may not include CSE 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 CSE 595. Independent Study or credit in CSE 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Computer Systems and Programming

Certificate Requirements (28 units)
1. CSE 125. Programming in Visual Basic (4)
2. CSE 201. Computer Science I (4)
3. CSE 202. Computer Science II (4)
4. CSE 292. JAVA Programming (4)

Note: Students who select an option requiring CSE 330 MUST substitute MATH 272 for either CSE 125 or 292.
5. Choose 12 units from one of the following options:

General Option
1. Twelve units of upper-division coursework chosen in consultation with the director of the School of Computer Science and Engineering.

Database Programming Option
1. CSE 330. Data Structures (4)
2. CSE 350. File Structures (4)
3. CSE 572. Database Systems (4)

Web Programming Option
1. CSE 322. Web Page Programming (4)
2. CSE 360. Script Programming (4)
3. CSE 405. Server Programming (4)

System Administration Option
1. CSE 360. Script Programming (4)
2. CSE 365. Systems Administration (4)
3. CSE 366. Systems Networking (4)

Game Programming Option
1. CSE 330. Data Structures (4)
2. CSE 420. Computer Graphics (4)
3. CSE 441. Game Programming (4)

Graphics Option
1. CSE 330. Data Structures (4)
2. CSE 420. Computer Graphics (4)

Software Engineering (System Analysis) Option
1. CSE 330. Data Structures (4)
2. CSE 375. Requirements Analysis and Design (4)
3. CSE 455. Software Engineering (4)

COURSE OFFERINGS IN
COMPUTER SCIENCE AND ENGINEERING (CSE)

Effective Fall 2010, the designation for Computer Science and Engineering courses changes from CSCI to CSE.

Lower Division

121. Computer Technology and People
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 CSE 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
Word processor, spreadsheet, and database 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 CSE 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)

125. Programming in Visual Basic
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. (4 units)

127. Introduction to Computer Technology for Educators
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 CSE 100, 121 and 123. (4 units)

128. Application Programming
Developing applications using a current graphical user programming environment. Three hours lecture and two hours activity laboratory. 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: CSE 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: CSE 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. Prerequisite: CSE 124 or consent of instructor. (2 units)
140. Introduction to Game Design
Elements of games, including theme, game play and presentation. The process by which game concepts are transformed into actual computer games, including the use of scripting languages to incorporate sound and graphics into a game, design documents, project management, evaluation, game play parameters and artificial intelligence. Several examples will be used to demonstrate game design concepts and practice. One hour lecture and two hours laboratory. Materials fee required. (2 units)

141. Introduction to Game Level Editing
Basic concepts on level editing of games and how a game is fine-tuned and balanced to improve game play and fun. Use of a level editor to demonstrate application of physics and artificial intelligence is included. One hour lecture and two hours laboratory. Materials fee required. (2 units)

201. Computer Science I
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. Prerequisites: satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience, or CSE 125. (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: CSE 201 and satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience, or CSE 125. (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 CSE 125. (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: CSE 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: CSE 202. (4 units)

292. JAVA Programming
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. (1-4 units)

298. Application Software Topics
Applications software in areas such as word processing, database, 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: CSE 202 and MATH 272. (5 units)

311. Advanced Digital Design
Transistor circuits, MOS and CMOS characteristics, design of logic families, CPLDs and FPGAs, timing, propagation, hazards, bistability and metastability, ASM charts, skew, reliability and testing, and transmission line behavior. Materials fee required. Three hours discussion and three hours laboratory. Prerequisite: CSE 310. (4 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: CSE 202. (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: CSE 202. (4 units)

322. Web Page Programming
Current protocols, technology, languages, and methodologies for the browser side of web-based systems; performance issues; human factors, page and site design. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSE 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. Prerequisite: CSE 202 or CSE 203. (4 units)

350. File Systems
Topics include file structures, file organization concepts and philosophies. Prerequisite: CSE 350. (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: CSE 201. (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: CSE 201. (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: CSE 365. (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. Prerequisite: CSE 202. (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. (1-2 units)

401. Contemporary Computer Architectures
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. Prerequisites: CSE 310 and 313. (5 units)

403. Circuit Design and Analysis
Analysis and design of digital and analog circuits, active and passive elements, diodes, FET and BJT transistor circuits, introduction to VLSI, two port networks, transmission lines, three phase circuits, filtering circuits in continuous and discrete time, Laplace and Z transform analysis and design, spectrum and power characterization of signals and systems. Three hours lecture and three hours activity laboratory. Materials fee required. Prerequisites: CSE 310 and 313. (4 units)

405. Server Programming
Current operating system technology; languages and methodologies of controlling servers; performance analysis; interfaces to databases; security, monitoring, and maintainability. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSE 322. (4 units)

406. Introduction to Computer Engineering Design
Introduction to the principles in engineering design and design issues of sustainability, environmental impact, human interface, accessibility and inclusive of a product, and effectiveness of the technique. One hour lecture and three hours laboratory. Materials fee required. Formerly CSE 152 and PHYS 152. Prerequisite: junior standing. (2 units)

407. Computer Engineering Design
Guided engineering design activity on an ongoing real world problem. Two hours lecture and three hours laboratory. Materials fee required. Formerly CSE 303. Prerequisite: CSE 406. (3 units)

408. Sustainable Engineering Design
Guided engineering design project on an ongoing real world problem. Examines issues of sustainability, energy, pollution, ethics, accessibility and effects of products on various stakeholders, analysis of designs and failure modes, as well as technical report writing and presentations. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: CSE 407. (4 units)

420. Computer Graphics
Survey of computer graphics hardware. Topics include animation, two-dimensional and three-dimensional transformation, hidden surface removal algorithm, business charts and applications. Prerequisite: CSE 330. (4 units)

431. Algorithm Analysis
Analysis and design of algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems. Prerequisites: CSE 330 and MATH 372. (4 units)

440. Game Design
Study of game design concepts and game design specification. Topics include principles of user interface layout, game design techniques, game design methodologies, artificial intelligence in gaming, and game design tools. Prerequisite: CSE 330. (4 units)

441. Game Programming
Techniques and technology used to produce games. Topics include game engine design, mathematical foundations of game programming, game physics, artificial intelligence, and application of software engineering principles to a game development environment. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSE 420. (4 units)

455. Software Engineering
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: CSE 330. (4 units)

460. Operating Systems
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: CSE 313 and 330. (4 units)

482. Senior Interdisciplinary Project
Analysis, design and implementation of a software system that solves an interdisciplinary problem related to the student's chosen program option or minor field of study. Presentation techniques and communication skills to support project planning and execution. Prerequisites: CSE 375 and consent of department. (4 units)

488. Ethics and the Computing Professional
Professionalism, ethics, legal issues and the social impact and role of computer technology. Prerequisite: senior standing. (2 units)

489. Senior Seminar
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
Consideration of a selected area of computer science. May be repeated for credit as topics change. Prerequisite: CSE 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: CSE 431 or consent of instructor. (4 units)
501. Introduction to Theory of Computation  (S)
Theoretical foundations of computer science: deterministic and non-
deterministic Turing machines, models of computation; recursive
functions, Church's thesis and undecidable problems; complexity
classes P, NP, CO-NP and PSPACE. Formerly CSE 546. Prerequisite:
CSE 500 or consent of instructor. (4 units)

510. Advanced Computer Architecture
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.
Three hours lecture and two hours laboratory. Materials fee required.
Prerequisite: CSE 401. (4 units)

511. Expert Systems
Expert systems components, problems and applications. Knowledge
bases, inference engines, and their integration within expert sys-
tems. Tools for building expert systems, system algorithms as related
to hardware, implementation languages and examples of systems in
operation. Prerequisite: CSE 330. (4 units)

512. Introduction to Artificial Intelligence
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. For-
merly CSE 411. Prerequisite: CSE 330. (4 units)

513. Advanced Artificial Intelligence
Advanced issues and techniques in artificial intelligence; intelligent
agents for problem solving, reasoning and learning; advanced arti-
ficial intelligence programming in LISP. Three hours lecture and two
hours activity laboratory. Materials fee required. Prerequisite: CSE
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, Herbrand-Godel computability, reso-

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. Prereq-
quisite: CSE 420. (4 units)

521. Field Programmable Gate Array Design
FPGA design rules, timing, latency, optimizations, ASIC conversion,
state machines, implementing arithmetic, counters, memory, error de-
tection and correction, simulation, and layout. Materials fee required.
Three hours lecture and three hours laboratory. Prerequisite: CSE
401. (4 units)

524. Supercomputing and Visualization
Design and implementation of scientific applications on high per-
formance computers emphasizing graphics and visualization tech-
iques. Topics include parallel algorithm development, multiproces-
sor and multicomputer programming, and real-time visualization
programming of computationally intensive problems in the sciences.
Prerequisite: CSE 330 or consent of instructor. (4 units)

525. Parallel Algorithms and Programming
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 par-
allel programming languages. Four hours lecture. Prerequisite: CSE
401. (4 units)

530. Data Communications and Networks
Topics include baseband and broadband signals and modulation
schemes, Error detecting and correcting codes, ISO protocol stan-
dard, packet switching and various local network schemes. Three
hours lecture and two hours activity laboratory. Materials fee required.
Prerequisites: CSE 313 or 598, and 330. (4 units)

531. High Performance Networks
High performance network methodologies. Methods to develop net-
work performance measures and models. Introduction to path cost
estimation and service reliability issues. Three hours lecture and two
hours laboratory. Materials fee required. Prerequisite: CSE 530 or
consent of instructor. (4 units)

535. Numerical Computation
Introduction to scientific computing. Algorithms related to approxima-
tions, zero findings, numerical differentiation and integration, data
fitting and interpolation, nonlinear equations. Three hours lecture
and two hours laboratory. Materials fee required. Prerequisite: senior
standing or consent of instructor. (4 units)

540. System Simulation
Theory and implementation of computerized modeling. Examples will
include administrative, physical and biological systems. Prerequisite:
CSE 330 or consent of instructor. (4 units)

541. Robotics and Control
Theory and practice of robotic modeling, control, programming, and
construction. Three hours lecture and three hours laboratory. Materi-
als fee required. Prerequisites: CSE 310 and 313. (4 units)

550. Advanced Bioinformatics I: Sequence
Analysis
Pairwise and multiple sequence alignment of strings and relations to
biology. Building phylogenetic trees from sequences. Predicting and
analyzing RNA secondary structure. Three hours discussion and two
hours activity. Materials fee required. Prerequisites: CSE 431 and
senior standing or consent of instructor. (4 units)

551. Advanced Bioinformatics II: Numerical
Modeling
Numerical techniques for the modeling and simulation of biological
and chemical systems using ordinary and partial differential equa-
tions, and stochastic variables. Three hours discussion and two hours
activity. Materials fee required. Prerequisite: CSE 535. (4 units)

555. Software Design and Architecture
Common patterns of architectural design, tradeoff analysis at the ar-
chitectural level, domain-specific architectures, automatic support for
architectural design, and formal methods of software architecture.
Three hours lecture and two hours laboratory. Materials fee required.
Prerequisite: CSE 330. (4 units)

556. Introduction to Formal Methods, Models
and Languages
Applications of logic and mathematics in documenting problems,
requirements, specifications, designs, and software. Formal model-
ing languages. Diagrammatic, algebraic, and tabular models. Model
checking. Students prepare, check, and present models using tech-
iques in the literature. Three hours lecture and two hours activity
laboratory. Materials fee required. Prerequisites: CSE 320 and 330.
(4 units)
557. Computer Systems in Organizations
General system and information theory. Modeling organizations, activities, hardware, data, and software using current techniques with emphasis on human-computer interaction, systems engineering and project planning. Students will study parts of actual organizations. Formerly CSE 372. Prerequisites: CSE 330, MATH 262, or consent of instructor. (4 units)

565. Systems Programming
Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Prerequisite: CSE 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. Prerequisite: CSE 313, 320 and 330. (4 units)

572. Database Systems
Basic concepts of database design and theory, including underlying storage structures and alternative approaches to database models (relational, object-relational, network and hierarchical). Hands-on applications with one or more commercial database management systems. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSE 330. (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)

580. Advanced Database Systems
Advanced description: advanced study of components of general database 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: CSE 572. (4 units)

594. Topics in Computer Science
An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Prerequisite: CSE 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 CSE 595 may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. 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. (1-4 units)

598. Foundations of Computer Architecture
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, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSE 202, MATH 272, and consent of instructor. (4 units)

599. Foundations of Software Systems
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 toward the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSE 330 and consent of instructor. (4 units)
CRIMINAL JUSTICE

Department of Criminal Justice
Social and Behavioral Sciences Building, Room 209
(909) 537-5506 criminaljustice.csusb.edu

Bachelor of Arts
- Criminal Justice
- Criminal Justice - Crime Analysis Option
- Criminal Justice - Paralegal Studies Option

Minors
- Criminal Justice
- Paralegal Studies

Master of Arts
- Criminal Justice

(Degree requirements can be found on Page 417.)

Certificate Programs
- Criminal Justice
- Paralegal Studies

FACULTY: Gisela Bichler, Frances Coles (Emeritus), John Conley (Emeritus), Christine Famega, Larry Gaines (Chair), Janine Kremling, Brian Levin, Deborah Parsons, Andrea Schoepfler, Pamela Schram, Dale Sechrest (Emeritus), Stephen Tibbetts

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.

Crime Analysis is a rapidly growing field offering exciting employment opportunities. Increasingly, criminal justice agencies—at the local and state level—are hiring people with advance analytic and technological capabilities. The drive to engage in more proactive, evidence-based policing founded upon sound analysis is a national trend that is unlikely to slow. courses are organized into several tracks allowing students to specialize in specific analytic techniques (i.e. geographic analysis or network analysis). In addition to research-based instruction, students are offered a range of elective subject areas, from cyber-security to gang prevention strategies, to enhance the practice utility of this program option.

B.A. IN CRIMINAL JUSTICE

Requirements (68 units) (see Addendum for program changes)

Total units required for graduation: 180

As prerequisite for acceptance into the B.A. in Criminal Justice, students must complete the following as a “Pre-criminal justice major.” Upon successful completion of the requirements, student’s major will be changed automatically from “Pre-criminal justice” to “Criminal Justice” status. Following formal entrance to the criminal justice major, students may proceed with upper-division CJUS courses.

Requirements to enter the B.A. in Criminal Justice
1. Completion of the following:
   • General Education Basic Skills in English
     One (1) of the following:
     ENG 104. Stretch Composition III
     ENG 106. Accelerated Stretch Composition II
     ENG 107. Advanced First-Year Composition
   • General Education Basic Skills in Oral Communication
     COMM 120. Oral Communication
   • General Education Basic Skills in Mathematics
     One (1) of the following:
     MATH 110. College Algebra
     MATH 115. The Ideas of Mathematics
     MATH 120. Pre-Calculus Mathematics
     MATH 192. Methods of Calculus
     MATH 211. Basic Concepts of Calculus
   • General Education Basic Skills in Critical Thinking
     One (1) of the following:
     COMM 180. Critical Thinking Through Argumentation
     PSYC 105. Critical Thinking Through Problem Analysis
     SOC 180. Critical Thinking about Social Problems
     MATH 180. Critical Thinking Through Applications of Mathematical Logic
     PHIL 105. Critical Thinking Through Argument Analysis

   Students are encouraged to take the above classes prior to taking the Criminal Justice classes below.
   • CJUS 101. Introduction to the Criminal Justice System
   • CJUS 102. Criminal Law
   • CJUS 320. Theories of Crime and Delinquency (with a grade no lower than "C-" (1.7)

   With the exception of CJUS 320, the grade earned in each of the above courses must be no lower than "C" (2.0).

   Transfer students who are not bringing in the equivalent must take these classes prior to becoming a "Criminal Justice Major."

Requirements for the B.A. in Criminal Justice:

Lower-division requirements, prerequisites for upper-division courses (8 units)
1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)

Upper-division requirements (24 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 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 598. Integrative Studies in Criminal Justice (4)
Electives (36 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. Thirty-six units chosen from:
   - CJUS 106. Introduction to Criminal Investigation (4)
   - CJUS 354. Victimology (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 585. Criminality Across the Life Course (4)
   - CJUS 590. Topics in Criminal Justice (4)
   - CJUS 595. Independent Study (1-4) for a total of (4)
   - CJUS 596. Peer Advising in Criminal Justice (2)
   - CJUS 597. Senior Honors Project (4)

**Note:** With consent of department course substitution committee, eight upper-division units in related fields may be substituted for eight units of the elective requirement.

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**B.A. IN CRIMINAL JUSTICE - CRIME ANALYSIS OPTION**

**Requirements (98 units)**

**Total units required for graduation: 180**

**Requirements for the B.A. in Criminal Justice - Crime Analysis Option**

Lower-division requirements, prerequisites for upper-division courses (26 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 106. Introduction to Criminal Investigation (4)
4. GEOG 100. Introduction to Human Geography (4)
5. GEOG 103. Physical Geography (5)
6. GEOG 202. Introduction to Geographic Information Systems and Cartography (5)

Upper-division requirements (32 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. CJUS 455. Forensic Profiling (4)
4. CJUS 470. Environmental Crime Prevention (4)
5. CJUS 550. Crime and Intelligence Analysis (4)
6. CJUS 570. Public Space and Crime (4)
7. CJUS 575. Internship in Criminal Justice (4)
8. CJUS 595. Independent Study (4)

Electives (40 units)

1. Twelve units chosen from:
   - CJUS 320. Theories of Crime and Delinquency (4)
   - CJUS 452. Occupational and Corporate Crime (4)
   - CJUS 453. Gangs (4)
   - CJUS 504. Criminal Procedure (4)
   - CJUS 554. Terrorism (4)
   - CJUS 555. Homeland Security (4)
   - CJUS 585. Criminality Across the Life Course (4)
2. At least 20 units chosen from:
   - GEOG 201. Map Interpretation (4)
   - GEOG 305. Geographic Statistics and Research Methods (4)
   - GEOG 307. Transportation Issues and Development (4)
   - GEOG 308. Advanced Geographic Information Systems (5)
   - GEOG 312. Geography of the Developing World (4)
   - GEOG 313. Geography of the Developed World (4)
   - GEOG 322. United States and Mexico Border Issues (4)
   - GEOG 341. Military Geography (4)
   - GEOG 402. Geographic Information Systems Applications (5)
   - GEOG 406. Digital Image Processing (4)
   - GEOG 420. Geography of Economic Activity (4)
3. At least eight units from:
   - CSE 125. Programming in Visual Basic (4)
   - CSE 136. HTML Programming (2)
   - CSE 201. Computer Science I (4)
   - CSE 202. Computer Science II (4)
   - CSE 298. Application Software Topics (2)
   - CSE 322. Web Page Programming (4)
   - CSE 330. Data Structures (4)
   - Or at least eight units from:
     - ACCT 211. Introductory Accounting I (4)
     - ACCT 212. Introductory Accounting II (4)
     - IST 101. Introduction to Information Technology (4)
     - IST 274. Data Base Management and Policies (4)
     - IST 275. Information Networking and Security (4)
     - IST 309. Information Systems and Technology (4)

**Note:** Students transferring from community colleges may substitute a maximum of eight units selected from geography courses and four units of CSE, IST, or ACCT toward the electives category.

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**B.A. IN CRIMINAL JUSTICE - PARALEGAL STUDIES OPTION**

**Requirements (68 units)**

**Total units required for graduation: 180**

**Requirements for the B.A. in Criminal Justice - Paralegal Studies Option:**

Lower-division requirements, prerequisites for upper-division courses (12 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. PLST 100. Introduction to Law (4)

Upper-division requirements (24 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
1. Thirty-two units chosen from:
   - CJUS 370. Law and the Courts (4)
   - PLST 370. Wills, Estates and Trusts (4)
   - PLST 373. Property Law (4)
   - PLST 376. Family Law (4)
   - PLST 377. Fundamentals of Litigation (4)
   - PLST 378. Corporate Law (4)
   - PLST 575. Internship in Paralegal Studies (4)
   - PLST 590. Topics in Paralegal Studies (4)
   - PLST 595. Independent Study (1-4) for a total of (4)

2. Sixteen units chosen from:
   - PLST 386. Legal Writing (4)
   - PLST 385. Legal Research (4)
   - PLST 100. Introduction to Law (4)

3. Four units chosen from upper-division electives in Criminal Justice.

4. At least one-half of the course work required by the major is completed at this university.

5. An overall undergraduate grade point average of 3.0 (“B”); students transferring from community colleges may substitute a maximum of eight lower-division units selected from paralegal courses toward the electives category.

6. At least a 3.5 grade point average in the major;

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. Candidates must 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. See Page 60 for further certificate requirements.

**Certificate in Criminal Justice**

Certificate Requirements (32 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 370. Law and the Courts (4)
7. Eight units chosen from upper-division electives in criminal justice.

**Certificate in Paralegal Studies**

Certificate Requirements (92 units)

General Education (28 units)

1. Four units chosen from:
   - ENG 104A. Stretch Composition III for Multilingual Students (4)
   - ENG 104B. Stretch Composition III (4)
   - ENG 106. Accelerated Stretch Composition II (4)
   - ENG 107. Advanced First-Year 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. 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)

5. Four units chosen from:
   - SSCI 306. Expository Writing in the Social Sciences (4)
   - SSCI 300. Nonwestern World (4)
   - SSCI 304. Contemporary Latin America (4)
   - SSCII 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)
28 units chosen from upper-division courses in
General Electives (28 units)

1. Required courses (20 units)
   - PSCI 500. International Law (4)
   - PSCI 410. American Constitutional Law (4)
   - COMM 522. Mediation Theory and Practice (4)
   - COMM 441. Interviewing (4)
   - BIOL 223. Human Physiology and Anatomy I (5)
   - SSCI 325. Perspectives on Gender
   - CJUS 504. Criminal Procedure (4)
   - CJUS 370. Law and the Courts (4)
   - BIOL 223. Human Physiology and Anatomy I (5)
   - PSCI 410. American Constitutional Law (4)
   - COMM 522. Mediation Theory and Practice (4)
   - COMM 441. Interviewing (4)
   - HUM 325. Perspectives on Gender

2. Elective courses (16 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)

3. Legal Speciality (36 units)
   - HUM 325. Perspectives on Gender
   - NSCI 325. Perspectives on Gender
   - SSCI 325. Perspectives on Gender

7. Integrative Capstone in the Humanities
   - HUM 319. Myth, Metaphor and Symbol (4)
   - HUM 325. Perspectives on Gender
   - HUM 328. Asian Cultural Traditions (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)

Note: Student may receive credit for only one of the following courses:
   - HUM 325. Perspectives on Gender
   - NSCI 325. Perspectives on Gender
   - SSCI 325. Perspectives on Gender

1. Required courses (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 courses (16 units)
   - A minimum of eight units must be taken from the following:
     - PLST 370. Wills, Estates and Trusts (4)
     - PLST 373. Property Law (4)
     - PLST 376. Family Law (4)
     - PLST 377. Fundamentals of Litigation (4)
     - PLST 378. Corporate Law (4)
     - PLST 575. Internship in Paralegal Studies (4)
     - PLST 590. Topics in Paralegal Studies (4)
     - PLST 595. Independent Study (1-4)

No more than eight units taken from the following may count towards the major:
   - ACCT 211. Introductory Accounting I (4)
   - BIOL 223. Human Physiology and Anatomy I (5)
   - CJUS 370. Law and the Courts (4)
   - CJUS 504. Criminal Procedure (4)
   - COMM 311. Business and Professional Communication (4)
   - COMM 441. Interviewing (4)
   - COMM 522. Mediation Theory and Practice (4)
   - PSCI 410. American Constitutional Law (4)
   - PSCI 500. International Law (4)

General Electives (28 units)
   - 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. Prerequisite: declared major or minor in criminal justice or social work. (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. (4 units)

106. Introduction to Criminal Investigation
Examination of crime, evidence and police procedures in investigating crime. Investigation of crime, including organized crime, street crime and white collar crime. (4 units)

Upper Division

CJUS 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. Prerequisite: CJUS 320. (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 Delinquency
Causes of crime and delinquency with emphasis on sociological factors. (4 units)

330. Correctional Theory and Institutions
History and theory of punishment; overview of history of correctional institutions; analysis and evaluation of contemporary institutional corrections; consideration of research concerning correctional institutions. (4 units)

340. Police and Police Systems
Analysis of police, police systems and the police role; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; problems affecting crime control and the interdependence of police and community. (4 units)

354. Victimology
Victim role, criminal-victim relationships, and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation. Prerequisite: CJUS 320. (4 units)

370. Law and the Courts
Nature, functions, limitations and objectives of law, criminal courts, civil courts, the grand jury and petit jury, family law, and civil liability for police and correctional officers. Emphasis on practical legal problems confronting criminal justice system workers and administrators. (4 units)
430. Correctional Administration
In-depth study of the administration and management of correctional agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 330 or equivalent. (4 units)

431. Community Corrections
Issues and trends in community based corrections; alternatives to incarceration including diversion, restitution, community treatment facilities, halfway houses, probation and parole, and such developments as house arrest and electronic surveillance. Special emphasis on the functions, strengths, and problems of community based programs. Prerequisite: CJUS 330. (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. Prerequisite: CJUS 330. (4 units)

440. Police Administration
In-depth study of the administration and management of law enforcement agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 340 or equivalent. (4 units)

441. Community Policing
Analysis of law enforcement strategies to secure cooperative police-community ventures aimed at enhancing community order and suppressing crime. Consideration of strategies designed to improve public relations. Prerequisite: CJUS 330. (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. (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. Prerequisite: CJUS 370. (4 units)

505. 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 profiles. (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)

556. Transnational Organized Crime
Overview of transnational crime and corruption and effects on the political, economic, and social development of countries around the world. Topics include international justice, drug trafficking, human trafficking, and war crimes. Formerly a topic under CJUS 590. Prerequisite: CJUS 320. (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 seniors. May be repeated for credit for a total of eight units; only four may be used in the major. If student completes more than one internship, the other internship must be completed in another agency. Graded credit/no credit. Prerequisites: completion of four of six upper division criminal justice requirements, 2.5 grade point average in criminal justice and consent of instructor. (4 units)
580. Juvenile Justice System
History, development and theory of the juvenile justice system. Prerequisite: CJUS 320. (4 units)

585. Criminality Across the Life Course
Examination of factors influencing criminality across the life span from prenatal to elderly stages of life; emphasis on physiological, developmental, social and environmental factors. Formerly a topic under CJUS 590. Prerequisite: CJUS 320. (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. (1-4 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. (1-4 units)

596. Peer Advising in Criminal Justice
Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. A total of eight units may be applied toward graduation. Four units may be applied as an upper-division elective in the major. Graded credit/no credit. Prerequisites: grade point average of 3.0, consent of instructor and department approval. (2 units)

597. Senior Honors Project
Original research in an area of criminal justice studies, culminating in a major research paper receive 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; however, it is a prerequisite for graduate students who do not have a bachelor's degree in Criminal Justice. Limited to senior and graduate students. Prerequisites: CJUS 311 and 320. (4 units)

599. Research in Criminal Justice
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)

600. 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)

606. Criminal Justice in California
Prerequisites: PLST 385 and 386 or consent of instructor. (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)

374. 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)

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. (1-4 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  theatre.csusb.edu

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 354.

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. 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)
ECONOMICS

Department of Economics
Social and Behavioral Sciences Building, Room 327D
(909) 537-5511  economics.csusb.edu

Bachelor of Arts
Economics
Economics - Applied Economics (see Addendum for program)
Economics - Mathematical Economics (see Addendum for program)
Economics - Political Economy

Minors
Applied Economics (see Addendum)
Mathematical Economics (see Addendum)
Philosophy, Policy, and Economics
Political Economy

FACULTY: Carolyn Aldana (Emeritus), Parviz Asheghian,
Jim Charkins, Kazim Konyar, Eric Nilsson, Tom Pierce,
Nancy Rose (Emeritus), Mayo Toruño (Chair)

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 economics develop and how people
in various groups (according to gender, race, class) interact with 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, educa-
tion, public administration and management.

B.A. IN ECONOMICS

Requirements (60 units) (see Addendum for program changes)

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:
   ECON 250. Statistics for Economists (4)
   SCM 210. Applied Business Statistics (4)
4. Four units chosen from:
   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 requirements (44 units)
1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 335. Tools of Economic Analysis (4)
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 Tools of Economic Analysis (4)
   ECON 372. Business Cycles (4)
   ECON 480. Quantitative Methods in Economics (4)
   ECON 490. Introduction to Econometrics (4)
6. A minimum of four units chosen 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)
   ECON 545. Economics of Water Resources (4)
   ECON 571. Economics of Sports (4)
   ECON 573. Economics of Crime (4)
7. A minimum of four units chosen from Political Economy
courses:
   ECON 333. Political Economy of Women: Money, Sex, Race,
   Economic History of the United States (4)
   ECON 352. Political Economy of Poverty and Discrimination (4)
   ECON 357. Political Economy of Lesbians, Gays, Bisexuals,
   Discrimination (4)
   ECON 421. Economic History of the United States (4)
   ECON 443. Origins of Political Economy (4)
   ECON 445. Political Economy (4)
   ECON 450. Global Economy (4)
   ECON 530. The Good Economy (4)
   ECON 540. Political Economy of Latin America (4)
8. Sixteen units of additional economics courses. With approval of a
departmental advisor, eight units in related fields may be counted
toward the course requirement in economics.

Note: In addition to the course requirements stated above,
students considering graduate study in economics are
urged to complete the following courses: ECON 480 and 490, MATH 211, 212, 251 and 331.

B.A. IN ECONOMICS - POLITICAL ECONOMY

Requirements (60 units) (see Addendum for program changes)

Total units required for graduation: 180

Requirements for the B.A. in Economics -
Political Economy:

Lower-division requirements (16 units)
1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. Four units chosen from:
   ECON 250. Statistics for Economists (4)
   SCM 210. Applied Business Statistics (4)
4. Four units chosen from:
   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 requirements (44 units)
1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 443. Origins of Political Economy (4)
4. ECON 445. Political Economy (4)
5. ECON 500. History of Economic Thought (4)
6. A minimum of
   12 units chosen from Political Economy courses:
   ECON 333. Political Economy of Women: Money, Sex, Race,
   Economic History of the United States (4)
   ECON 352. Political Economy of Poverty and Discrimination (4)
   ECON 357. Political Economy of Lesbians, Gays, Bisexuals,
   Discrimination (4)
   ECON 421. Economic History of the United States (4)
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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. A minimum of twelve units chosen from:
   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 450. Global Economy (4)
   ECON 520. Social Economics (4)
   ECON 530. The Good Economy (4)
   ECON 540. Political Economy of Latin America (4)
4. Four units of additional economics courses.

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;
2. Completed at least half of all work in economics at this university;
3. 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. (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. (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, 120, 192, or 211. (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, 120, 192, or 211. (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, 120, 192, or 211. (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. Tools of Economic Analysis
Using current software and basic economic models to investigate and analyze economic phenomena. Prerequisites: ECON 200, 202 and MATH 110, 120, 192, or 211. (4 units)

340. Advanced Tools of Economic Analysis
Advanced formulation, construction, and application of computer models using economics concepts and principles. 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 GSS 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)

372. Business Cycles
Application of macroeconomic theory, study of cyclical indicators, and use of software to examine the causes and origins of short-run fluctuations in aggregate economic activity. Prerequisites: ECON 200, 202, 335 and MATH 110, 120, 192, or 211. (4 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)

443. Origins of Political Economy
Economic theories of Karl Marx and the intellectual, political, and economic context in which they developed. Formerly a topic under ECON 390. (4 units)

445. Political Economy
Post-1880s developments in political economy. Topics may include the class structure of modern capitalism, theories of the state, imperialism, monopoly capital, the labor process, and globalization. (4 units)

450. Global Economy
Examines factors that give rise to uneven economic growth and economic interdependence among nations. Investigates the organization 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, 120, 192, or 211. (4 units)

490. Introduction to Econometrics
Various statistical methods of testing economic hypotheses. Prerequisites: ECON 200, 202; MATH 110, 120, 192, or 211; 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. Prerequisite: graduate standing. (4 units)

510. Economics in the Classroom
Economics method of analysis as it applies to 7th through 12th grade California History/Social Science Standards. (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. (4 units)

530. The Good Economy
Standards used to judge an economy as good or bad including utilitarian, neoclassical welfare economics, Rawlsian, neo-Aristotelian, and/or postmodernist approaches. Formerly a topic under ECON 390. (4 units)

540. The Political Economy of Latin America
Study of the economic history and contemporary political economy of Latin America. Theories of imperialism and development, common policy prescriptions (import substitution and Neoliberalism), and popular political movements (e.g. Socialist, Sandinista, Bolivarian) will be integrated into an explanation of the region and selected countries. Formerly a topic under ECON 390. (4 units)

545. Economics of Water Resources
Economics of water resources and related policies, with special emphasis on California where water is a scarce resource. Topics include: water supply and economic growth; urban demand for water; watermarkets; and water benefit cost analysis. Prerequisites: ECON 200 and 503, or consent of instructor. (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. (1-4 units)

597. Senior Honors Project
Original research in an area of economics, culminating in a major report receiving approval of the economics faculty. Enrollment limited to students whose formal application for admission to the course has been approved by the department chair. (4 units)

Graduate level courses can be found on Page 422.
EDUCATION

College of Education
College of Education Building, Room 182
(909) 537-5600  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 436.)

- Preliminary Level I Education Specialist Credential:
  - Mild/Moderate Disabilities with EL Authorization

- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

- Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

- Preliminary Level I Education Specialist Credential: Early Childhood Special Education with EL Authorization

- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization

- Professional Clear Level II Education Specialist Credential:
  - Early Childhood Special Education with EL Authorization

- Professional Clear Level II Education Specialist Credential:
  - Mild/Moderate Disabilities with EL Authorization

- Professional Clear Level II Education Specialist Credential:
  - Moderate/Severe Disabilities with EL Authorization

- Pupil Personnel Services: School Counseling

- Pupil Personnel Services: School Psychology

- Reading/Language Arts Specialist

- School Nurse

- Supervision and Coordination of Designated Subjects Programs

(Credential requirements can be found beginning on Page 451.)

Certificate Programs

- Crosscultural, Language and Academic Development (CLAD)
- Early Childhood Special Education
- Education of the Gifted and Talented
- Educational Technology
- Environmental Education
- Holistic and Integrative Education
- Reading/Language Arts
- Rehabilitation Counseling

- School Business Management (see Addendum)

(Certificate requirements can be found beginning on Page 457.)

Special Certificate Program

- Resource Specialist in Special Education

(Certificate requirements can be found on Page 459.)

Career and Technical Studies

- Bachelor of Arts in Career and Technical Studies
- Bachelor of Science

(Degree requirements can be found on Page 125.)

Division of Teacher Education

Credential Office
College of Education Building, Room 102, (909) 537-5609
www.csusb.edu/coe/offices/student_services/credential_processing/index.htm

Masters Program Office and Advanced Credentials
College of Education Building, Room 102, (909) 537-5293
www.csusb.edu/coe/offices/student_services/grad_advanced_cred_prog/index.htm

Multiple Subject and Single Subject
College of Education Building, Room 102, (909) 537-5650
www.csusb.edu/coe/offices/student_services/teacher_ed_office/index.htm

Special Education
College of Education Building, Room 102, (909) 537-7406
www.csusb.edu/coe/programs/special_ed/index.htm

Supervision Office
College of Education Building, Room 102, (909) 537-5698
www.csusb.edu/coe/offices/student_services/field_supervision/index.htm

Program Admissions
College of Education Building, Room 102, (909) 537-5609
www.csusb.edu/offices/student_services/program_admissions/index.htm
Department of Educational Leadership and Curriculum
College of Education Building, Room 374, (909) 537-7404
www.csusb.edu/coe/departments/edlc/index.htm
FACULTY: Diane Brantley, Jay Fiene, Mark Groen, Juan Gutierrez, Susan Jindra, Angela Louque, Thelma Moore-Steward (Interim Chair), Ruth Norton (Emeritus), Bonnie Piller, Louie Rodriguez, Mary Jo Skillings (Emeritus), Deborah Stine, Stanley Swartz, Doris Wilson
M.A.: Curriculum and Instruction
M.S.: Educational Administration

Department of Educational Psychology and Counseling
College of Education Building, Room 243, (909) 537-5606
www.csusb.edu/coe/departments/epc/index.htm
FACULTY: Patricia Arlin, Laura Ashcroft, Richard Ashcroft, Susan Brotherton, Margaret Cooney (Emeritus), Sam Crowell, Susan Daniels, Carolyn Eggleston, Sherri Franklin-Guy, Thom Gehring, Young Suk Hwang, Todd Jennings, Kurt Kowalski, Robert London, Camille Mayers, Enrique Murillo, Sang Seok Nam, Brett Nelson, Kathleen Phillips, Ruth Sandlin (Chair), Donna Schnorr, Gary Sherwin (Emeritus), Sue Spitzer, Dwight Sweeney, Judy Sylva, Joseph Turpin, Michael Verdi, Dudley Wiest, John Winslade, Randall Wright
M.A.: Educational Counseling
M.S.: Holistic and Integrative Education
M.S.: Rehabilitation Counseling
M.S.: Special Education

Department of Language, Literacy and Culture
College of Education Building, Room 261, (909) 537-7405
www.csusb.edu/coe/departments/llc/index.htm
FACULTY: Maria Balderama, Lynne Diaz-Rico, Barbara Flores, Monica Garcia, Rosalie Giacchino-Baker, Barbara Larrivee, Brenda Littleton, Marjorie McCabe, Gary Negin, Nena Torrez, Laura Young
M.A.: Bilingual/Cross-Cultural
M.S.: Reading/Language Arts
M.S.: Teaching English to Speakers of Other Languages

Department of Science, Mathematics and Technology Education
College of Education Building, Room 335, (909) 537-5290
www.csusb.edu/coe/departments/smte/index.htm
FACULTY: Eun-Ok Baek, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amy Leh, Brian Newberry, Ron Pendleton, Rowena Santiago, Joseph Scarcella, Donna Shea, Catherine Spencer
M.A.: Career and Technical Education
M.S.: Environmental Education
M.S.: Instructional Technology
M.S.: Science, Technology, Engineering and Mathematics Education
B.A.: Career and Technical Studies
B.S.: Career and Technical Studies

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 Arts in Career and Technical Studies and the Bachelor of Science in Career and Technical Studies see Page 125.
• Preliminary Level I Education Specialist Credential:
  • Mild/Moderate Disabilities with EL Authorization
  • Preliminary Education Specialist Credential: Mild to Moderate Disabilities with EL Authorization
  • Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
  • Preliminary Level I Education Specialist Credential:
    • Moderate/Severe Disabilities with EL Authorization
  • Preliminary Education Specialist Credential: Moderate to Severe Disabilities with EL Authorization
  • Internship Education Specialist Credential: Moderate to Severe Disabilities with EL Authorization
  • Preliminary Level I Education Specialist Credential: Early Childhood Special Education with EL Authorization
  • Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization
  • Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization

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 424. 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 Arts in Career and Technical Studies and the Bachelor of Science in Career and Technical Studies. Further information about these degrees is provided on Page 125.

MINOR IN EDUCATION

Requirements (24 units)

The minor in Education addresses the academic study of education in a social and cultural context. The minor is open to students in any major and is intended to be of value to students interested in becoming teachers or pursuing graduate study in Education but also for students interested in social policy issues in general. It does not focus on methods of teaching, which are addressed in post-baccalaureate credential programs in the College of Education.

Requirements for a minor in Education:

Lower division requirement (4 units)
1. EDUC 250. Democracy and Education (4).

Upper division requirements (20 units)
2. Twenty units chosen from:
   EDUC 310. Education and Contemporary Culture (4)
   EDUC 320. Diversity in Education (4)
   EDUC 330. Education and Special Populations (4)
   EDUC 340. Social Class Poverty and Education (4)
   EDUC 350. History of Schooling (4)
   EDUC 360. Education for Peace and Nonviolence (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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Education

A minimum of twelve units of coursework for this certificate must be completed at CSUSB. Substitution of courses may occur only after application to the program coordinator.

Certificate Requirements (24 units)

Lower division requirement (4 units)
1. EDUC 250. Democracy and Education (4).

Upper division requirements
2. Twenty units chosen from: (20 units)
   EDUC 310. Education and Contemporary Culture (4)
   EDUC 320. Diversity in Education (4)
   EDUC 330. Education and Special Populations (4)
   EDUC 340. Social Class Poverty and Education (4)
   EDUC 350. History of Schooling (4)
   EDUC 360. Education for Peace and Nonviolence (4)

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)

Students must apply to the program via CSUMentor. In preparation for admission to the basic credential program, students must attend an orientation session scheduled through the Teacher Education Office, CE-102. 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 the Credentials Office, (CE-102) 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;
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;
5. Verification of a negative tuberculin examination within the last 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 post-baccalaureate 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 Program.)
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 (6)
       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 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);
3. Satisfactory completion of HSCI 100 and either PSYC 350 or ESPE 350 and Phase I coursework (EELB 312, 313, 315, 317 and 520B) 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 four years;
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 quarter each of EELB 540A (and 422, 423, 425, and 520C) and EELB 540B (and 532, 533 and 520D). 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, 520A, 532, 533, 520D, 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 (6)
      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 (4)
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)
5. EELB 520B. Teaching Performance Assessment Seminar: Designing Instruction (1)

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 520C. Teaching Performance Assessment Seminar: Assessing Student Learning (1)
5. EELB 540A. Supervised Student Teaching in Multiple Subjects I (6)

Phase III

Second quarter of student teaching

1. EELB 520A. Teaching Performance Assessment Seminar: Subject Specific Pedagogy (1)
2. EELB 520D. Teaching Performance Assessment Seminar: Culuminating Teaching Experience (1)
3. EELB 532. Science/Health Curriculum and Pedagogy (4)
4. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
5. EELB 540B. Supervised Student Teaching in Multiple Subjects II (6)

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, CE-102.

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)

Students must apply to the program via CSUMentor. In preparation for admission to the basic credential program, students must attend an orientation session scheduled through the Teacher Education Office, CE-102. 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 the Credentials Office, CE-102, 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;
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;
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 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 post-baccalaureate 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.)
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 (4)
   B. One of the following:
      EELB 301. Growth and Development in Socio-Educational Contexts (6)
      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);
3. Satisfactory completion of 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 four 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.

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, and 520C) and EELB 540B (and 532, 534, and 540D). 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, 520A, 520C, 532, 534, 520D, 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 (6)
      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 (4)
2. EELB 313. Pedagogical Foundations for English Language Learners (4)
3. EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
4. EELB 317. Educational Psychology for a Diverse Society (4)
5. EELB 520B. Teaching Performance Assessment Seminar: Designing Instruction (1)

**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 520C. Teaching Performance Assessment Seminar: Assessing Student Learning (1)
5. EELB 540A. Supervised Student Teaching in Multiple Subjects I (6)
Phase III
Second quarter of student teaching
1. EELB 520A. Teaching Performance Assessment Seminar: Subject Specific Pedagogy (1)
2. EELB 520D. Teaching Performance Assessment Seminar: Culminating Teaching Experience (1)
3. EELB 532. Science/Health Curriculum and Pedagogy (4)
4. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
5. EELB 540B. Supervised Student Teaching in Multiple Subjects II (6)

Additional Requirements
Students must successfully complete:
1. Both of the following:
   - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
   - SPAN 415. Comparative Linguistics: Spanish/English (4)
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)
3. 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, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the 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)
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.

Students must apply to the program via CSUMentor. In preparation for admission to the basic credential program, students must 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).

Admission to the Program
Students must submit a Program Admission File (PAF). The PAF is to be submitted to the Credentials Office, CE-102, 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;
2. Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
3. 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 Spanish language usage for the BCLAD interns, professional aptitude, personality and character;
5. Verification of a negative tuberculin examination within the last 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 post-baccalaureate 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 coursework, 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;
7. 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.)
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 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 (6)
      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 internship as they complete their coursework/thesis requirements. Those applying for internships must have completed at least one quarter of the supervised intern teaching phase, with the remainder of the required coursework completed or underway. 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.

The CSUSB Intern Track may begin in any quarter and continues for a maximum of 2 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 have successfully completed:
   A. ENG 311. The English Language (4)
   B. One of the following:
      EELB 301. Growth and Development in Socio-Educational Contexts (6)
      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 (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: Requirements for the Intern Credential
1. EELB 422. Classroom Organization, Management, and Discipline (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 520A. Teacher Performance Assessment Seminar: Designing Instruction (1)

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;
2. 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 312. Family, Culture, and Schooling (4)
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 560A. Supervised Intern Teaching in Multiple Subjects I (8)

Phase III
Second quarter of supervised intern teaching
1. EELB 520A. Teaching Performance Assessment Seminar: Specific Subject Pedagogy (1)
2. EELB 520C. Teaching Performance Assessment Seminar: Assessing Student Learning (1)
3. EELB 532. Science/Health Curriculum and Pedagogy (4)
4. EELB 560B. Supervised Intern Teaching in Multiple Subjects II (8)

Phase IV
Third quarter of supervised intern teaching
1. EELB 520D. Teaching Performance Assessment Seminar: Culminating Teaching Experience (1)
2. Four units chosen 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)
3. EELB 560C. Supervised Intern Teaching in Multiple Subjects III (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.
2. The teacher performance assessment with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a professional clear 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, CE-102. 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 Credentials Office, CE-102;
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 quarter units attempted.
      2. A grade point average of 3.0 (“B”) in professional education course work with no course grade in this area lower than “B-.” Students can only discount one grade in the program courses. They can only repeat a total of two courses in the program.
   B. If necessary, written verification of registration for or passage of subject matter competence in the appropriate single subject credential area.
   No candidate may be recommended for the credential who has received a grade less than “C” (2.0) in any other course required for the credential, such as health science courses.
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       |
      | Health Science            | B.S. Health Sciences  |
      | Foundational Mathematics/ | B.A. Mathematics      |
      | Mathematics               | B.A. Music (Music     |
      | Music                     | Education)            |
      | Physical Education        | B.S. Kinesiology       |
      | Sciences                  | B.A. 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.

B. 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;

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;

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education;

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 (14 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 550A. Student Teaching Experience (2)
   (These courses must be taken concurrently.)

Second Quarter: Classroom Perspectives (18 units)

1. ESEC 413. Language Interaction in the Classroom (4)
2. ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)
4. ESEC 512. Assessment Seminar: Designing Instruction (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 Seminar: Culminating Teaching Experience (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)

Second Quarter
1. ESEC 407. Secondary School Teaching (4)
2. ESEC 413. Language Interaction in the Classroom (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)

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. Assessment Seminar: Designing Instruction (2)
2. ESEC 550B. Student Teaching (4)
3. ESEC 602. Special Topics in Secondary Education (2)

Fifth Quarter
1. ESEC 514. Assessment Seminar: Culminating Teaching Experience (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 and Student Teaching

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 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 Credentials Office, CE-102. Candidates will not be considered until all the following information is provided:
1. 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;
2. Meeting with education advisor and signed advising form or attend a program advisory meeting to determine requirements of the program;
3. Verification of a negative tuberculosis 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 postbaccalaureate 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 and the Teacher Education Office.

Single Subject Credential

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
Foundation 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
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;
6. Submit passage of the U.S. Constitution requirement and the 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.)
8. Submission of evidence that the applicant has passed the California Basic Educational Skills Test (CBEST);
9. Interns must be employed in a school district or school site that 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 full-time 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 (10 units)
1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 555. Internship Seminar I (2)
Second Quarter (18 units)
1. ESEC 410. Adolescent Development and Learning (4)
2. ESEC 413. Language Interaction in the Classroom (4)
3. ESEC 506. Curriculum and Instruction in Content Areas (4)
4. ESEC 570A. Intern Supervision I (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)
3. ESEC 556. Internship Seminar II (2)
Second Year
Implementation of Reflection on Instruction
1. Admittance to the second year will be satisfactory completion of the first year of the program.
First Quarter (8 units)
1. ESEC 512. Assessment Seminar: Designing Instruction (2)
2. ESEC 570B. Intern Supervision II (6)
Second Quarter (10 units)
1. ESEC 513. Assessment Seminar: Assessing Learning (2)
2. ESEC 514. Assessment Seminar: Culuminating Teaching Experience (2)
3. ESEC 570C. Intern Supervision III (6)

Applications for intern candidacy must be submitted in the quarter 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
Passage of the four California Teacher Performance Assessment Tasks. Three of these tasks are completed through courses ESEC 512, 513 and 514. Candidates are required to complete the Subject Specific Pedagogy Task independently after successful completion of ESEC 405, 407 and 410.

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, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

DESIGNATED SUBJECTS CAREER AND TECHNICAL EDUCATION TEACHING CREDENTIAL
Requirements: 24 units

Admission to the Program
Preliminary Designated Subjects Credential requirements or Program Coordinator's permission. Complete Early Orientation requirement prior to or within the first month of teaching or document one year teaching experience under a California Teaching Credential.

Credential Requirements
Appropriate work experience and a high school diploma (or the equivalent) are required for admission to the Designated Subjects Career and Technical (CTE) Teaching Credential Program. Applicants should have at least three years of verifiable work experience directly related to each industry sector named on the credential. One year must equal a minimum of 1000 clock hours for ROP or 1500 hours for adult education. The experience may be full-time or part-time, paid or unpaid. One year of work experience must be within the last five years or two years of work experience must be within the last ten years in the area listed on the credential. Contact the Jim and Judy Watson College of Education Student Services Office for additional information on credential processing requirements.

Clear Credential Requirements (24 units)
1. ECTS 501. Principles and Methods for Teaching Designated Subjects (4)
2. ECTS 502. Instructional Support for Teaching Designated Subjects (4)
3. ECTS 503. Contemporary Issues in Teaching Designated Subjects (4)
4. ECTS 504. Principles of Career and Technical Education (4)
5. ECTS 518. Field Work in Designated Subjects (4)
6. ECTS 519. Computer Applications for Career and Technical Educators (4)

Additional Requirements
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 Career and Technical Studies Program. For information concerning the Bachelor of Arts in Career and Technical Studies and the Bachelor of Science in Career and Technical Studies, see Page 125.

1. Successful completion of all professional education courses with a minimum of 3.0 grade point average.
2. HSCI 540 School Health Programs and Practices (4)
4. Two (2) years of teaching experience.

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 478)
EDCA Correctional and Alternative Education
ECLG Educational Counseling (listed on Page 415)
ECTS Career and Technical Studies (listed on Pages 126, 461)
ECCI Curriculum and Instruction
EDSC Science Education (listed on Page 471)
EELB Elementary Education
ENV Environmental Education (listed on Page 469)
EESL Education: English for Speakers of Other Languages
ERDG Reading Education (listed on Page 470)
EREH Rehabilitation Counseling (listed on Page 534)
ESEC Secondary Education
ESPE Special Education
ETEC Instructional Technology

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)

250. Democracy and Education
Considers the role of education in a democratic society and introduces some of the themes in the subsequent courses: ideology and schooling, cultural background and education, and contemporary movements in education. (4 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. Graded A, B, C/no credit. Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent, and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

310. Education and Contemporary Culture
Exploration of cultural studies, youth culture, digital culture, forces of globalization, and how emerging cultural movements are shaping the nature of public, private and proprietary education institutions. Prerequisite or corequisite: EDUC 250. (4 units)

320. Diversity in Education
How issues of race and ethnicity, gender, and sexual orientation have shaped American education and how they continue to do so. Prerequisite or corequisite: EDUC 250. (4 units)

330. Education and Special Populations
Special education (including landmark legislation), English language learners, correctional education, and inclusion of special populations. Prerequisite or corequisite: EDUC 250. (4 units)

340. Social Class, Poverty, and Education
Exploration into the relationships among (a) social class, economic inequality, interactions of class and race, and (b) statutory, regulatory, and policy decisions as they affect student access and success in education. Prerequisite or corequisite EDUC 250. (4 units)

350. History of Schooling
Overview of the history of schooling. Includes key events and global and local social movements that have shaped education in the United States. Prerequisite or corequisite EDUC 250. (4 units)

360. Education for Peace and Nonviolence
Exploration of the role of schooling in promoting human rights, resolving conflicts, and producing safer schools and a more peaceful world. Prerequisite or corequisite EDUC 250. (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. (1-5 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 file in advance of the quarter in which the course is to be taken. (1-4 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, burn-out 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 aspirations 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 ex-felons 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 incarcerated, 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)

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. (1-4 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
Comprehensive introduction to development from birth through adolescence. Emphasis is on physical, cognitive, social, language, and emotional development within social and educational contexts as affected by race, sex, culture, home language, gender, sexual orientation, socioeconomic status, and special needs. Includes learning to use observational and interview methodologies to analyze behaviors and contexts using developmental principles, theories, and current research. Requires a field component in an approved setting. Four units lecture and two units supervision. Formerly EELB 331. (6 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 dynamics of cross-cultural contact. Topics include legal and ethical responsibilities of teachers and the identification and use of community resources to support families. 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 520B. Prerequisite: admission to the Multiple Subject Credential Program. (4 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 520B. 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 520B. 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 520B. 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 441. May be taken concurrently with EELB 312, 315 or 316, and 520B. 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 arts 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: 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. May be taken concurrently with EELB 423, 425 and 520C and either EELB 540A or 560A. If not taken concurrently with EELB 520C and either EELB 540A or 560A, then six hours of fieldwork will be required. 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. May be taken concurrently with EELB 423, 425 and 520C and either EELB 540A or 560A. If not taken concurrently with EELB 520C and either EELB 540A or 560A, then six hours of fieldwork will be required. 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. May be taken concurrently with EELB 423, 425 and 520C and either EELB 540A or 560A. If not taken concurrently with EELB 520C and either EELB 540A or 560A, then six hours of fieldwork will be required. 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, 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 540A, 451 and 533 or 534. Corequisites: EELB 540B, 452 and 511. (2 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)

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)

520. Teaching Performance Assessment Seminar
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Prerequisites: classified program admission and good standing in program with grades “B-” or better.
A. Subject Specific Pedagogy Task 1. Prerequisites: EELB 313; 315 or 136; 317 and 423 with a grade of “B-” or better in each course. (1 unit)
B. Designing Instruction Task 2. Prerequisites: EELB 312; 313; 315 or 316; and 317 with a grade of “B-” or better in each course. (1 unit)
C. Assessing Student Learning Task 3. Corequisite: EELB 540A for student teachers and EELB 560B for intern teachers. (1 unit)
D. Culminating Teaching Experience Task 4. Corequisite: EELB 540B for student teachers and EELB 560C for intern teachers. (1 unit)

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. 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. Student teachers may take concurrently with EELB 533 or 534, 520D and 540B. Intern teachers may take concurrently with EELB 520C and 560B. If not taken concurrently with EELB 540B or 560B, then six hours of fieldwork will be required. 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. Student teachers may take concurrently with EELB 532, 520D and 540B. Intern teachers may take concurrently with EELB 520D and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. 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. Student teachers may take concurrently with EELB 532, 520D and 540B. Intern teachers may take concurrently with EELB 520D and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. 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.
500. Introduction to Teaching English to Speakers of Other Languages
Practices in teaching English to second-language learners, including strategies for teaching speaking, listening, reading, writing, and grammar; survey of second-language acquisition theory and English-language-development programs. (4 units)

501. Foundations of TESOL
Broad survey of fundamental principles underlying classroom practice across diverse settings. Extensive examination of educational practices for English learners from a global perspective, with a focus on the knowledge, skills, and dispositions to teach both English language development (ELD) in US contexts and English as a foreign language (EFL) abroad. (4 units)

505. Differentiated Curriculum in TESOL
Simulation and classroom-based practice in teaching methods and materials for students across a broad range of learning styles and academic levels. Emphasis will be placed on developing a balanced approach to reading, writing, speaking, listening, and critical thinking skills. Strategies and implications for English learners at a variety of second-language-acquisition stages. (4 units)

514. 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. Formerly EESL 614. (4 units)

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)

524. Supervised Observation/Participation in Teaching English to Speakers of Other Languages
Observation/participation opportunities for candidates in English-as-a-second-language and English-as-a-foreign-language classrooms. (2 units)

525. Tutoring Methods in Teaching English to Speakers of Other Languages
Tutoring and small-group teaching of English to second-language learners, including strategies for tutoring in speaking, listening, reading, writing, and grammar. (2 units)

533. TESOL Crosscultural Teaching Practicum
Practicum in cultural practices in teaching English in English-as-a-foreign-language (EFL) settings. (2 units)

535. Survey of Methods in Teaching English as a Foreign Language
Overview of programs, curricula, and resources for the education of English learners in countries where English is taught using foreign-language-acquisition methodologies. Strategies for English language development with an emphasis on vocabulary acquisition, communicative language teaching, and awareness of sociocultural implications of target-culture immersion. (4 units)

536. Crosscultural Teaching
Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be offered through distance learning. Formerly EELB 536. (4 units)

540. Teaching Adult English Learners
Simulation and classroom-based practice in teaching and tutoring adult second-language learners, including strategies for English-for-special-purpose domains such as business and scientific English, as well as adult primary-language non-literate. (4 units)

543. Listening and Speaking Methods in TESOL
Survey of contemporary pedagogy for listening and speaking in English-as-a-second-language (ESL) and English-as-a-foreign-language (EFL) classrooms. In-depth analyses of purposes, audiences, and strategies for oral expression; including methods for pronunciation improvement and accent reduction in second-language acquisition. Formerly a topic under EESL 542. (4 units)

542. Seminar in Elementary/Bilingual Education
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 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)
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
Perspectives on public school teaching for potential secondary teachers (grades 6-12). Early field experience activities including planned observations, instruction and tutoring provide students with the opportunity to link undergraduate 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

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. Provides equal access to content areas in the secondary schools. Reviews and reflects on application of methodologies and strategies through micro-teaching. Formerly ESEC 505 and 508. Prerequisites: admission and good standing in the program or consent of program director. (2 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 school-based 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
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)

502. Special Topics for Undergraduates in Secondary Education
Issues and techniques in selected topics current in secondary education. Designed for the Integrated Teaching Track students. Senior status in the degree program is required. (2 units)

506. Curriculum and Instruction in Content Areas
Accessibility of secondary school content to all students from varied populations. Student evaluation, assessment and practice that provides equal access to content areas in the secondary schools. Study and practice of the design, implementation, and assessment of instruction in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. Prerequisites: ESEC 321, EESL 536; and EELB 313 or ESEC 333. (4 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 support the development of English language proficiencies needed for success in secondary schools. Prerequisite: ESEC 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; and EELB 313 or ESEC 333. (4 units)

512. Assessment Seminar: Designing Instruction
Teaching Performance Assessment Task 2 - Designing Instruction which consists of an assessment of Teaching Performance Expectations 1, 4, 6, 7, 8, 9 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

513. Assessment Seminar: Assessing Learning
Teaching Performance Assessment Task 3 - Assessing Learning which consists of an assessment of Teaching Performance Expectations 3, 6, 7, 8, 9, and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program. Corequisite: enrollment in Student Teaching or Internship Teaching Supervision. (2 units)
514. Assessment Seminar: Culminating Teaching Experience
Teaching Performance Assessment Task 4 - Culminating Teaching Experience which consists of an assessment of Teaching Performance Expectations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program. Corequisite: enrollment in Student Teaching or Internship Teaching Supervision. (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)

520. Teaching Performance Assessments
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Graded credit/no credit.
A. Subject Specific. Task 1. Prerequisites: admission, good standing in the program and have successfully completed ESEC 407, 410, and 413 with a grade of "B" or better. (1 unit)
B. Designing Instruction. Task 2. Prerequisite or corequisite: ESEC 417, 506, 550A or 550B or 570B. (1 unit)
C. Assessing Learners. Task 3. Prerequisite or corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or 570C. (1 unit)
D. Culminating Teaching Experiences. Task 4. Prerequisite or corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or 570C. (1 unit)

521. Instructional Strategies and Approaches to Middle Grade
Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. (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. (1-4 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. I. Prerequisite: enrollment in Single Subject Program. (6 units)
B. II. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units)
C. III. Prerequisite: satisfactory completion of ESEC 570B. (6 units)
D. IV. Prerequisite: satisfactory completion of ESEC 570C. (6 units)
E. V. Prerequisite: satisfactory completion of ESEC 570D. (6 units)
F. VI. Prerequisite: satisfactory completion of ESEC 570E. (6 units)

COURSE OFFERINGS IN SPECIAL EDUCATION (ESPE)

Upper 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)

515. Language and Literacy for Children Under Five With Special Needs
An intensive study of early literacy and language skills including English as a second language, typical and atypical development, assessment, instruction, and guidelines as it relates to infants, toddlers, and young children who may be at-risk. (4 units)

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)

530. Introduction to Special Education
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)
531. Methods and Procedures in Special Education
Introductory teaching methods in special education. Policies and procedures related to the implementation of federal and state legislation governing the delivery of special education services. Formerly ESPE 529. Prerequisite/corequisite: ESPE 530. (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. (1-4 units)

545. Computer Technology and Assistive Devices
Training and appropriate use of computers, technological, and assistive devices that facilitate communication as well as cognitive and physical access for persons with disabilities in educational and work environments. Formerly a topic under ESPE 542. Graded A,B,C/no credit. Prerequisite: consent of instructor. (4 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. (4 units)

501. Foundations of e-Learning
Introduction to theoretical and practical foundations of e-Learning. Exploration of history, trends, current issues, and practices of e-Learning. (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. With program approval, students may take CSE 140 or 141 in lieu of ETEC 537. Three hours lecture and two hours laboratory. Meets Level I competencies for the preliminary credential. (4 units)

541. E-Learning Design and Development
Examination and application of e-Learning design and development principles and practices. (4 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. (1-4 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)
ENGLISH

Department of English
University Hall, Room 334
(909) 537-5824 english.csusb.edu

Bachelor of Arts
English
Literature Track
Creative Writing Track
Linguistics Track

Teacher Preparation Program
English
Minor
English
Film Studies (See Page 137.)

Master of Arts
English Composition
English Literature
Applied Linguistics and Teaching English as a Second Language

(Degree requirements can be found on Page 484.)

Master of Fine Arts
Creative Writing
Fiction
Poetry

(Degree requirements can be found on Page 487.)

Certificate Programs
Teaching English as a Second Language (see Page 488.)
Writing: Creative Writing
Writing: Professional Writing

FACULTY: Jennifer Andersen, Mary Boland, James Brown, David Carlson, Rong Chen, Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Parasstou Feiz, Ellen Gil-Gomez, Brenda Glascott, Carol Haviland (Emeritus), Holly Henry, Sunny Hyon (Chair), Sandra Kamusikiri, Chad Luck, Jessica Luck, David Marshall, Susan Meilshelder (Emeritus), Kevin Moffett, Julie Paegle, Renee Pigeon, Luz Elena Ramirez, Jacqueline Rhodes, Karen Rowan, Treadwell (Ted) Rumil II, DeShea Rushing, Wendy Smith, J. Chad Sweeney, 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) (see Addendum for program changes)

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 183.

Lower-division requirements: (8 units)

1. Four units chosen from:
   ENG 210. English Literature I (4)
   ENG 211. English Literature II (4)
2. Four units chosen from:
   ENG 212. English Literature III (4)
   ENG 213. English Literature IV (4)

Upper-division requirements (29 units)

1. Four units chosen from:
   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 single 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)
6. 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)
1. Students must take thirty-six units chosen from one of the following tracks:

**Literature Track**

**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.

**Studies in a Literary Topic**
- ENG 324. Studies in Literary Topics (4)
- ENG 463. Advanced Studies in Literary Topics (4)

**Studies in a Literary 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 Literary 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 444. Studies in a Major Author or Authors (4)
- ENG 423. Studies in a Literary Theme (4)

2. ENG 515. Senior Seminar in Literature (4)

3. Sixteen units of upper-division electives in English which may include up to eight units of upper-division foreign literature or upper-division literature in translation. 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)
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 Secondary 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 upper-division electives in English which may include up to eight units of upper-division foreign literature or upper-division literature in translation. 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 upper-division electives in English which may include up to eight units of upper-division foreign literature or upper-division literature in translation. 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.

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**

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)
   - ENG 312. Theories of Language Acquisition and Learning (4)
   - ENG 327. Literature for Adolescents and Young Adults (4)
   - ENG 329. Issues in Literacy and Writing Studies (4)
   - ENG 420. English Grammar I (4)
   - ENG 501. English in the Secondary Classroom (4)

   **Note:** Students can apply these courses toward the elective units in their track.

2. Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.

3. Students must include the following among their General Education Requirements:
   - **A.** Four units chosen from:
     - ENG 110. World Literature I (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 170 or contact the Credentials Office, CE-102. For subject matter programs in English with concentrations in Communication or Theatre Arts, see listings under the Communication Studies or Theatre Arts Departments, respectively.
MINOR IN ENGLISH

Requirements for a minor in English:

1. Four units chosen from:
   - ENG 311. The English Language (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)

2. Four units chosen from:
   - 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)

3. Eight units chosen from:
   - ENG 401. English Literature of the Middle Ages (4)
   - ENG 403. English Literature of the Renaissance (4)
   - ENG 406. Seventeenth Century Literature (4)
   - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
   - ENG 412. Romantic Prose and Poetry (4)
   - ENG 415. Victorian Literature (4)
   - ENG 442. Modern Poetry (4)
   - ENG 443. Modern Poetry (4)
   - ENG 447. Modern Fiction (4)
   - ENG 448. Contemporary Fiction (4)

4. Four units chosen from:
   - ENG 475. Shakespeare I (4)
   - ENG 476. Shakespeare II (4)

5. Four units chosen from:
   - ENG 401. English Literature of the Middle Ages (4)
   - ENG 403. English Literature of the Renaissance (4)
   - ENG 406. Seventeenth Century Literature (4)
   - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
   - ENG 412. Romantic Prose and Poetry (4)
   - ENG 415. Victorian Literature (4)
   - ENG 442. Modern Poetry (4)
   - ENG 443. Modern Poetry (4)
   - ENG 447. Modern Fiction (4)
   - ENG 448. Contemporary Fiction (4)

6. Four units chosen from:
   - ENG 314. American Indian Literature (4)
   - ENG 319. Studies in Literary Diversity (4)
   - ENG 323. Chicano Literature (4)
   - ENG 336. Women Writers (4)
   - ENG 339. African American Literature (4)

7. Four additional units chosen from any upper-division English course except:
   - ENG 399. Community Service Project (4)

MINOR IN FILM STUDIES

Minor in Film Studies

The Department of English participates in the interdisciplinary minor in Film Studies. Details concerning this minor are found on Page 137.

MINOR IN SCRIPT WRITING

Requirements (28 units)

Requirements for a minor in Script Writing:

Lower-division requirement (4 units)

1. Four units chosen from:
   - HUM 180. The Art of Film (4)
   - TA 260. Introduction to Theatre (4)

Upper-division requirements (24 units)

1. ENG 517. Honors Project.
2. Earned an overall undergraduate grade point average of at least 3.0;
4. Certificate Requirements (28 units)
   1. ENG 317. Introduction to Creative Writing: Poetry (4)
   2. ENG 318. Introduction to Creative Writing: Fiction (4)
   3. ENG 417. Intermediate Creative Writing: Poetry (4)
   4. ENG 418. Intermediate Creative Writing: Fiction (4)

DEPARTMENTAL HONORS

Students majoring in English are eligible to receive honors in English at graduation if they have:

1. Completed at least one-half of the course work required in the major at this university;
2. Earned a grade point average of at least 3.5 in all courses attempted in the major at this university;
3. Received an overall undergraduate grade point average of at least 3.0;

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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Writing: Creative Writing

Certificate Requirements (28 units)

1. ENG 317. Introduction to Creative Writing: Poetry (4)
2. ENG 318. Introduction to Creative Writing: Fiction (4)
3. ENG 417. Intermediate Creative Writing: Poetry (4)
4. ENG 418. Intermediate Creative Writing: Fiction (4)
5. ENG 513. Advanced Creative Writing: Specialized Genres (4)
English / 185

ENGLISH  (ENG)

Lower Division

100. Academic Speaking for Multilingual Students
Analysis and practice of spoken language in university settings, such as classroom discussions, laboratories, office hours, and other interactions. Builds students’ understanding of and fluency in such areas as intonation patterns, grammatical structures, and discourse strategies for particular academic situations. Corequisite: concurrent enrollment in ENG 102B or consent of instructor. (4 units)

102. Stretch Composition I
A. Stretch Composition I
Analysis and use of strategies for critically reading and writing expository texts. Builds students’ understandings of relationships among language, meaning, and context, as well as their abilities to conduct research and evaluate sources, to use writing as a means of critical thinking, and to write essays that reflect a variety of rhetorical approaches. Students will remain with the same cohort of classmates in the same time slot across ENG 102A-103A-104A. Students identify themselves for placement in this course through Directed Self-Placement. Graded credit/no credit. No more than eight units of the ENG 102A-103A-104A stretch sequence may count toward graduation. (4 units)
B. Stretch Composition I for Multilingual Students
Analysis and use of strategies for critically reading and writing expository texts. Builds students’ understandings of the relationships among language, meaning, and context, as well as their abilities to conduct research and evaluate sources, to use writing as a means of critical thinking, and to write essays that reflect a variety of rhetorical approaches. Students will remain with the same cohort of classmates in the same time slot across ENG 102B-103B-104B. Students identify themselves for placement in this course through Directed Self-Placement and through self-identification as a speaker of a native or home language other than English. Students who meet these two criteria may also opt to take ENG 102A instead of ENG 102B. Graded credit/no credit. No more than eight units of the ENG 102B-103B-104B stretch sequence may count toward graduation. (4 units)

103. Stretch Composition II
A. Stretch Composition II
Continued emphasis on the relationships among language, meaning, and context, on conducting research, and on strategies for reading and writing expository texts with varied purposes and audiences. Students will remain with the same cohort of classmates in the same time slot across ENG 102A-103A-104A. Prerequisite: ENG 102A. Graded credit/no credit. No more than eight units of the ENG 102A-103A-104A stretch sequence may count toward graduation. (4 units)
B. Stretch Composition II for Multilingual Students
Continued emphasis on the relationships among language, meaning, and context, on conducting research, and on strategies for reading and writing expository texts with varied purposes and audiences. Students will remain with the same cohort of classmates in the same time slot across ENG 102B-103B-104B. Prerequisite: ENG 102B. Graded credit/no credit. No more than eight units of the ENG 102B-103B-104B stretch sequence may count toward graduation. (4 units)

104. Stretch Composition III
A. Stretch Composition III
Further attention to relationships among written language, meaning, and context. Develops students’ understandings of writing as a recursive process requiring rethinking and rewriting, as well as their abilities to conduct research, to integrate it into their own arguments, and to use writing as a means of critical thinking. Students will remain with the same cohort of classmates in the
same time slot across ENG 102B-103B-104B. Graded A,B,C/no credit. A grade of C or better fulfills GE A1. No more than eight units of the ENG 102B-103B-104B stretch sequence may count toward graduation. Prerequisite: ENG 103B. (GE=A1) (4 units)

105. Accelerated Stretch Composition I
Analysis and use of strategies for conducting research and critically reading and writing expository texts. Explores relationships among language, meaning, and context, and emphasizes writing as a recursive process and a means of critical thinking. Students identify themselves for placement in this course through Directed Self-Placement, or through receiving an NC in ENG 103A or 103B. Students will remain with the same cohort of classmates in the same time slot across ENG 105-106. Graded credit/no credit. (4 units)

106. Accelerated Stretch Composition II
Further examination of how written language functions in context. Builds students' abilities to conduct research and to integrate it into their own arguments. Students will remain with the same cohort of classmates in the same time slot across ENG 105-106. Graded A,B,C/no credit. A grade of C or better fulfills GE A1. Prerequisite: ENG 105. (GE=A1) (4 units)

107. Advanced First-Year Composition
Concentrated composition course for advanced first-year writers. Examines the ways written language functions in various contexts. Requires students to conduct research, to draw upon their critical readings of texts to develop their own arguments, and to examine and use rhetorical strategies that respond to different situations. Formerly ENG 101. Students identify themselves for placement in this course through Directed Self-Placement, or through receiving an NC in ENG 104 or ENG 106. Graded A,B,C/no credit. A grade of C or better fulfills GE A1. (GE=A1) (4 units)

110. World Literature I
Readings in world literature to the sixteenth century (in English translation). Prerequisite: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C2) (4 units)

111. World Literature II
Readings in world literature from the sixteenth century to the contemporary period (in English translation). Prerequisite: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C2) (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: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C2) (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: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C2) (4 units)

210. English Literature I
Readings in English literature from the Middle Ages through the Renaissance. Formerly ENG 230. Prerequisite: satisfaction of the GE written communication (A1) requirement or equivalent. (4 units)

221. English Literature II
Readings in English literature from the Restoration through the eighteenth century. Formerly ENG 231. Prerequisite: satisfaction of the GE written communication (A1) requirement. (4 units)

222. English Literature III
Readings in nineteenth-century English literature. Formerly ENG 232. Prerequisite: satisfaction of the GE written communication (A1) requirement. (4 units)

223. English Literature IV
Readings in English literature from the twentieth century to the present. Formerly ENG 232. Prerequisite: satisfaction of the GE written communication (A1) requirement. (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. Prerequisite: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (4 units)

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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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: satisfaction of the GE written communication (A1) requirement. (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. Graded A, B, C/no credit. Prerequisites: satisfaction of the GE written communication (A1) requirement 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. 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, or consent of instructor. (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: satisfaction of the GE written communication (A1) requirement 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: satisfaction of the GE written communication (A1) requirement 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. Chicano Literature
Selected literary 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)

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)
330. Tutoring Writing: Theory and Practice
Study of theories and methods for tutoring writing in college and secondary school contexts. Those completing this course with a grade of "B" (3.0) or better are eligible to participate in campus writing tutoring programs. Prerequisite: satisfaction of the GE written communication (A1) requirement or equivalent or consent of instructor. (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 GSS 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. Classroom exercises will culminate in students creating their own dramatic scenes and short plays. (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
Survey of major issues in literary theory and criticism from Plato to the present. (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. (1-2 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 literature 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)
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)

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; or consent of instructor. (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. May be repeated with consent of M.F.A. graduate poetry coordinator. 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. May be repeated with consent of M.F.A. graduate fiction coordinator. 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 Secondary 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. May be repeated for a total of eight units. Prerequisite: ENG 317 or 318 with consent of instructor or graduate coordinator. (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: 3.5 grade point average in 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. Required attendance at honors colloquia. Graded credit/no credit. Prerequisite: 3.5 grade point average in the English major. (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)

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)
543. 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 and edit, and proof read poems, short stories, artwork and plays. ENG 543A, 543B, and 543C may each be taken once for credit. Prerequisite: ENG 507 or 508; or current enrollment in the M.F.A. in Creative Writing; or consent of instructor.
A. Solicitation of submissions; selections of materials; gathering, ranking and editing of submissions to the campus literary journal. (4 units)
B. Production, layout, design and editing of the literary journal. (4 units)
C. Publication process, organization of readings, and promotion of new issue of literary journal. (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. (2-5 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. (2-5 units)
ENVIRONMENTAL HEALTH SCIENCE

Department of Health Science and Human Ecology
Physical Sciences Building, Room 226
(909) 537-5339 health.csusb.edu

Bachelor of Science in Health Science
Concentration in Environmental Health Science

FACULTY: Lal Mian, Robert Phalen

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 Department of Public Health. 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 221.

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.

All Health Science concentrations require grades of "C" or better in all coursework required in the major. University regulations require a minimum cumulative grade point average of 2.0 in all coursework.

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)
4. HSCI 367. Human Disease Mechanisms (4)
5. HSCI 370. Health Behavior (4)
6. HSCI 451. Principles of Epidemiology (4)

Concentration Courses

Environmental Health Concentration (91-93 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. Five units chosen from:
   BIOL 220. Principles of Microbiology (5)
   BIOL 320. Microorganisms (6)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Organic chemistry, a minimum of five units. Choose Group A, B, or C in its entirety:
   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)
ENVIRONMENTAL STUDIES

Department of Geography and Environmental Studies
Social and Behavioral Sciences Building, Room 327J
(909) 537-5519  geog.csusb.edu

Bachelor of Arts
Environmental Studies - Track A
Environmental Studies - Track B

Minor
Environmental Studies

COORDINATOR: Jeff Hackel

To accomplish its principal objective of promoting an understanding of the interaction of human beings with their environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's ecosystems, principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of human beings upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career or graduate school. Professional opportunities for graduates include a wide range of positions in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

B.A. IN ENVIRONMENTAL STUDIES - TRACK A
Requirements (78-79 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. Introduction to Geology (5)
   HSCI 120. Health and Society: An Ecological Approach (5)
May choose only one of the following two courses:
   PHYS 100. Physics in the Modern World (5)
   PHYS 121. Basic Concepts of Physics I (5)

Upper-division requirements (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)

3. Four units chosen from:
   GEOG 304. Field Methods in Geography (4)
   GEOG 306. Remote Sensing of Environment (4)
   GEOG 406. Digital Image Processing (4)

4. GEOG 350. Conservation and Natural Resources (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)
   GEOL 312. Geology of California (4)

7. Four units chosen from:
   GEOG 305. Geographic Statistics and Research Methods (4)
   MATH 305. Statistics: Hypothesis Testing and Estimation (4)

8. GEOG 500. Senior Seminar (2)

Electives (20 units)
1. 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 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 Cartography (5)
   GEOG 304. Field Methods in Geography (4)
   GEOG 308. Advanced Geographic Information Systems (5)
   GEOG 402. Geographic Information Systems Applications (5)
   GEOG 406. Digital Image Processing (4)
   GEOL 301. Introduction to Geologic Mapping (4)
   HSCI 324. Radiological Health and Safety (2)
   HSCI 478. Environmental Health Management (4)

Students are encouraged to use approved independent study courses and approved internships for Group 1 and 2 electives.

B.A. IN ENVIRONMENTAL STUDIES - TRACK B
Requirements (79 units)
Total units required for graduation: 180

Requirements for the B.A. in Environmental Studies - Track B:

Lower-division requirements (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)
Environmental Studies

MINOR IN ENVIRONMENTAL STUDIES

Requirements (34 units)

Lower-division requirements (14 units)

1. Five units chosen from:
   - BIOL 100. Topics in Biology (5)
   - BIOL 202. Biology of Populations (5)
   - HSCI 120. Health and Society: An Ecological Approach (5)

2. Five units chosen from:
   - GEOG 103. Physical Geography (5)
   - GEOL 101. Introductory Geology (5)
   - GEOG 201. Map Interpretation (4)

Upper-division requirements (8 units)

1. GEOG 350. Conservation and Natural Resources (4)
2. Four units chosen from:
   - ECON 360. Economics of the Environment (4)
   - HSCI 478. Environmental Health 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 Cartography (5)
   - GEOG 305. Geographic Statistics and Research Methods (4)
   - GEOG 360. Climate and Weather (4)
   - GEOG 365. Climate Change (4)
   - GEOG 370. Landscape Analysis (4)
   - GEOG 470. Hydrology and Water Resources (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)

HONORS IN THE MAJOR

Students majoring in environmental studies are eligible to receive honors in environmental studies at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior project approved in advance by the program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department administrative support coordinator.
MINOR IN ETHNIC STUDIES

Requirements (28 units)

To earn the minor in ethnic studies, students must complete 28 units of coursework with a concentration to be chosen in consultation with an advisor, in only one of the following five specializations:

- General Ethnic Studies
- African American Studies
- Asian Pacific American Studies
- Chicano(a)/Latino(a) Studies
- Native 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. Four units chosen from:
   - ES 392. Topics in Ethnic Studies (2) for a total of (4)
   - ES 394. Topics in Ethnic Studies (4)

   Note: Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

Electives (16 units):

1. In consultation with an Ethnic Studies advisor, 16 units are to be selected from only one of the five specialized concentrations below:

   Note: Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

General Ethnic Studies

Select 16 units (no more than one elective course from the same department may count toward elective units) from:

1. Eight units chosen from the College of Arts and Letters:
   - ART 323. Native North American Art (4)
   - ART 329. Chicano Art (4)
   - COMM 302. Communication, Language and Culture (4)
   - COMM 304. Intercultural Communication (4)
   - COMM 401. Gender, Race and Media (4)
   - COMM 402. Ethnography of Communication (4)
   - COMM 580. Culture and Ethnicity in Language (4)
   - ENG 314. American Indian Literature (4)
   - ENG 323. Chicano Literature (4)
   - ENG 339. African American Literature (4)
   - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
   - HUM 350. Cultures of American Childhood (4)
   - HUM 370. African Heritage in the Arts (4)
   - HUM 450. Aspects of Chicano/o Culture (4)
   - HUM 460. Cultural Studies (4)
   - MUS 352. African American Music (4)
   - PHIL 364. Philosophy of Race and Ethnicity (4)
   - PHIL 375. Non-Western Philosophy (4)
   - ANTH 330. Anthropology of Human Development (4)
   - TA 465. Ethnic Film and Film Makers (4)
   - TA 468. Chican/o and U.S. Latina/o Theatre (4)

2. Eight units chosen from the College of Social and Behavioral Sciences:
   - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
   - ANTH 307. Incas and Their Predecessors (4)
   - ANTH 323. Native North American Art (4)
   - ANTH 325. Human Biological Variation and the Concept of Race (4)
   - ANTH 331. Anthropology of Human Development (4)
   - ANTH 332. Cross-Cultural Perspectives on Aging (4)
   - ANTH 333. Sex and Gender in Cross-Cultural Practices (4)
   - ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
   - ANTH 351. Indians of North America (4)
   - ANTH 352. Indians of the Southwest (4)
   - ANTH 365. Asian American Cultures (4)
   - ANTH 380. Gender and Language (4)
   - ANTH 388. Language and Culture (4)
   - ANTH 466. Anthropology of Health, Illness and Healing (4)
   - ECON 352. Political Economy of Poverty and Discrimination (4)
   - ES 595. Independent Study (1-4) for a total of (4)
   - GEOG 322. United States and Mexico Border Issues (4)
   - HIST 341. African-American History, 1865-Present (4)
   - HIST 391. Chicano History (4)
   - HIST 465. Modern Central America (4)
   - HIST 470. Modern Latin America (4)
   - HIST 665. Immigration and Ethnic American History (4)
   - PSYC 340. Stereotyping, Prejudice and Discrimination (4)
   - PSYC 345. Cross-Cultural Psychology (4)
   - SOC 410. Sociology of Race and Ethnicity (4)
   - SOC 425. Asian Americans: Origins and Ethnicity (4)
   - SOC 441. Black Social Stratification (4)
   - SOC 442. Chicano Social Stratification (4)
   - SOC 525. Indian Nations and Native America (4)
   - SSCI 300. Nonwestern World (4)
   - SSCI 316. Race and Racism (4)
   - SSCI 350. Roots of Modern Racism in America (4)

   Note: Students may receive credit for only one of the following:
   - ANTH 323. Native North American Art (4)
   - ART 323. Native North American Art (4)
African American Studies
1. Sixteen units chosen from:
   - ES 595. Independent Study (1-4) for a total of (4)
   - ENG 339. African American Literature (4)
   - HIST 341. African-American History, 1865-Present (4)
   - HUM 370. African Heritage in the Arts (4)
   - MUS 352. African American Music (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)
   - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to African American studies)

Asian Pacific American Studies
1. Sixteen units chosen from:
   - ANTH 365. Asian American Cultures (4)
   - ES 595. Independent Study (1-4) for a total of (4)
   - PHIL 375. Non-Western Philosophy (4)
   - SOC 425. Asian Americans: Origins and Ethnicity (4)
   - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to Asian American/Asian Pacific American)

Chicano(a)/Latino(a) Studies
1. Sixteen units chosen from:
   - ART 329. Chicano Art (4)
   - COMM 409. Latinas/os, Media and Culture (4)
   - ENG 323. Chicano Literature (4)
   - ES 595. Independent Study (1-4) for a total of (4)
   - GEOG 322. United States and Mexico Border Issues (4)
   - HIST 391. Chicano History (4)
   - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
   - HUM 450. Aspects of Chicano/o Culture (4)
   - TA 465. Ethnic Film and Film Makers (4) (when the topic pertains to Chicano/a)
   - TA 468. Chicano/a and U.S. Latino/a Theatre (4)

Native American Studies
1. Sixteen units chosen from:
   - ANTH 305. North American Prehistory (4)
   - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
   - ANTH 307. Incas and Their Predecessors (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)
   - ES 595. Independent Study (1-4) for a total of (4)
   - SOC 525. Indian Nations and Native America (4)

MINOR IN ETHNIC STUDIES - CHICANO(A)/LATINO(A) STUDIES
Requirements (28 units)
Designed to provide increased awareness, knowledge and an in-depth 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. ES 102. Chicano(a)/Latino(a) Culture: An Overview (4)
2. ES 300. Research Methods in Ethnic Studies (4)
3. ES 394. Topics in Ethnic Studies (4)
4. Eight units chosen from:
   - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
   - ES 595. Independent Study (2 or 4)
   - HIST 391. Chicano History (4)
   - PSCI 352C. Minority Politics: Latino Politics (4)
   - SOC 342. The Chicano Family (4)
   - SOC 442. Chicano Social Stratification (4)
5. Eight units chosen from:
   - ART 328. Mexican Art (4)
   - 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 Chicano/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. (1-4 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)

420. **Entrepreneurial Finance**  
Financing business start-ups and entrepreneurial projects. Topics include business plan, venture capital markets, funding cycles, financial statement analysis, financial management, valuation of firms, and exit strategy. Prerequisites: FIN 313 and 314 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, 430 and the upper-division writing requirement. (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. Prerequisites: FIN 430 and the upper-division writing requirement. (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)

482. **Real Estate Development**  
Aspects of the real estate development process from the location of the property to the best use of the property. (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)

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)

527. Financial Derivatives
Managing individual stock and stock portfolio price risks, interest rate risk, currency exchange-rate risk, and other financial risks using options, futures, forwards, and swaps. Emphasis on hedging risk than on speculative uses of financial derivatives. Prerequisites: FIN 313 and 314 or consent of instructor. (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. Prerequisite: FIN 313. (4 units)

546. Student Managed Investment Fund
Gain hands-on investment experience in managing real money. Learn to be an equity analyst and junior portfolio manager. Build an investment portfolio by selecting securities from the equity and bond markets. May be repeated for a total of four units. Prerequisite: consent of department. (2 units)

555. Trade and Business in Asia
Practical approach to doing business with Asian countries and communities by introducing their historical, cultural, and business contexts. Topics also include the historical experiences and cultural contributions of Asian Americans to American society, and international business practices including documentation, customs clearance procedures, shipping, the methods and instruments of payment, and international commercial terms. (Also offered as FIN 355. Students may not receive credit for both.) (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 flan.csusb.edu

FACULTY: Ruth Burke, Myung Choi, Rafael Correa, Dany Doueiri, Arturo Fernández-Gilbert, M. Antonieta Gallegos-Ruiz, Kareen Gervasi, Carmen Jany, J. David Jerez-Gómez, Oraib Mango, Elizabeth Martin, Terri Nelson (Chair), 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 languages include American Sign Language, Arabic, Chinese, French, German, Greek, Italian, Japanese, Korean, Latin, Persian, Russian, Spanish, Turkish, and more. American Sign Language, Chinese, Korean and courses that apply comprehensively to all languages, including English, appear below. The offerings of Arabic, French, German, Japanese 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 world 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)

Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division

100. English as a Second Language
Self-paced course designed to help students gain mastery of the English language at beginning, intermediate and advanced levels. No more than 10 units are applicable to a baccalaureate degree. Open only to foreign students for whom English is a second language. Prerequisite: consent of instructor. (4 units)

101. Language Study I
Introduction to a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the chosen language. May be repeated for credit as topics change.
C. Italian (4 units)
D. Portuguese (4 units)
E. Greek (4 units)
F. Latin (4 units)
G. Russian (4 units)
H. Turkish (4)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (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.
C. Italian (4 units)
D. Portuguese (4 units)
E. Greek (4 units)
F. Latin (4 units)
G. Russian (4 units)
H. Turkish (4)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
O. Tagalog (4 units)
P. Persian (4 units)

103. Language Study III
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. Formerly FLAN 150. Prerequisite: two years of high school study in the chosen language or equivalent. (GÉ=C3)
C. Italian (4 units)
D. Portuguese (4 units)
E. Greek (4 units)
F. Latin (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
O. Tagalog (4 units)
P. Persian (4 units)

111. Directed Language Study I
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: consent of instructor.
C. Italian (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

112. Directed Language Study II
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 111 or consent of instructor.
C. Italian (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

113. Directed Language Study III
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 112 or consent of instructor.
C. Italian (4 units)

G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

211. Directed Language Study IV
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 211 or consent of instructor.
C. Italian (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

212. Directed Language Study V
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 212 or consent of instructor.
C. Italian (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

213. Directed Language Study VI
Independent language study under supervision of a faculty member. Involves textbook, online and multimedia materials for self-instruction, as well as weekly conversation practice with a native speaker. Prerequisite: FLAN 212 or consent of instructor.
C. Italian (4 units)
G. Russian (4 units)
H. Turkish (4 units)
L. Vietnamese (4 units)
M. Hebrew (4 units)
N. Hindi (4 units)
P. Persian (4 units)

Upper Division

312. Pedagogies for Foreign Language Teaching
Theories and practice of foreign language acquisition and teaching in an English-speaking environment. Focuses on relevant methodological practices and familiarizes prospective foreign language teachers with the Standards for Language Learning from the American Council on the Teaching of Foreign Languages. Offered for World Language majors. Class taught in English. (4 units)

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)

400. Readings in the Disciplines
Research in a target language for courses in another discipline. Can be repeated for up to four units. Prerequisites: one 300-level course in a target language and department approval of research proposal which must be signed by instructor of the discipline-based course. (1 unit)

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. (1-4 units)

COURSE OFFERINGS IN
AMERICAN SIGN LANGUAGE (ASL)

Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division

101. American Sign Language I
Introduction to the language. Fundamentals of signing and language structure designed to develop the ability to use and understand the language. Formerly FLAN 101A. (4 units)

102. American Sign Language II
Further study in American Sign Language. Fundamentals of signing and language structure to further develop the ability to use and understand the language. Formerly FLAN 102A. Prerequisite: ASL 101 or consent of department. (4 units)

103. American Sign Language III
Intermediate study in American Sign Language. Emphasis on proficiency/competence at the intermediate level. Formerly ASL 150 and FLAN 150A. Prerequisite: ASL 102 or equivalent. (GE=C3) (4 units)

201. American Sign Language IV
Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 103 or equivalent. (GE=C3) (4 units)

202. American Sign Language V
Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 201 or equivalent. (GE=C3) (4 units)

203. American Sign Language VI
Continued study of American Sign Language at the intermediate level. Prerequisite: ASL 202 or equivalent. (GE=C3) (4 units)

232. Introduction to ASL Interpreting
Overview and practical application of interpretation. Emphasis on the professional code of ethics and professional concerns. Formerly FLAN 232. Prerequisite: ASL 103. (4 units)

Upper Division

301. Advanced American Sign Language I
Study of ASL at an advanced level. Prerequisite: ASL 203 or equivalent. (4 units)

302. Advanced American Sign Language II
Study of ASL at an advanced level. Prerequisite: ASL 301 or equivalent. (4 units)
200 / Foreign Languages and Literatures

350. Deaf Students and Culture
Analysis and discussion of Deaf culture through study of the cultural, educational, geographic, and economic factors that influenced the historical evolution of the Deaf community in terms of language, culture and the arts. Taught in English (4 units)

COURSE OFFERINGS IN
CHINESE (CHIN)
Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division

101. College Chinese I
Introduction to beginning level Mandarin Chinese, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. Formerly MAND 101. (4 units)

102. College Chinese II
Develops listening and active speaking skills in Mandarin Chinese with further development of reading and writing skills while expanding vocabulary of daily life. Formerly MAND 102. Prerequisite: CHIN 101 or consent of department. (4 units)

103. College Chinese III
Develops listening and speaking skills in Mandarin Chinese with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Formerly MAND 103 and 150. Prerequisite: CHIN 102 or consent of department. (GE=C3) (4 units)

170. Beginning Chinese Conversation
Practice of oral Chinese with emphasis on familiar surroundings, immediate needs, and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit. (2 units)

201. Second Year College Chinese I
Further study of the Mandarin Chinese language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Chinese culture. Formerly MAND 201. (GE=C3) (4 units)

202. Second Year College Chinese II
Emphasis on the continued vocabulary and syntactic development of the Mandarin Chinese language to attain proficiency in four language skills: listening, speaking, reading and writing. Formerly MAND 202. (GE=C3) (4 units)

203. Second Year College Chinese III
Integration of reading, writing, listening and speaking skills. Students are expected to familiarize themselves with the format of writing effective Mandarin Chinese essays. Chinese philosophy, poetry, history and culture will be incorporated. Formerly MAND 203. (GE=C3) (4 units)

210. Chinese Calligraphy
Teaches students the seven brush strokes for writers. Students will learn the evolution of Mandarin Chinese characters from ancient ideograms to modern written characters. Formerly MAND 210. (4 units)

214. Conversation in Chinese
Practice of oral Chinese including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Prerequisite: CHIN 103 or equivalent. (GE=C3) (4 units)

290. Chinese Literature in Translation
Introduction to Chinese literature read in English translation. Selection of writers and genres from classical and contemporary Chinese literature. Formerly MAND 290. (GE=C3) (4 units)

COURSE OFFERINGS IN
KOREAN (KOR)
Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division

101. College Korean I
Introduction to beginning level Korean, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. Formerly FLAN 101K. (4 units)

102. College Korean II
Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Formerly FLAN 102K. Prerequisite: KOR 101 or consent of department. (4 units)

103. College Korean III
Develops listening and speaking skills with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Formerly FLAN 150K. Prerequisite: KOR 102 or consent of department. (GE=C3) (4 units)

170. Beginning Korean Conversation
Practice of oral Korean with emphasis on familiar surroundings, immediate needs, and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit. (2 units)

201. Second Year College Korean I
Second year course in modern Korean. Develops proficiency in listening, speaking, reading and writing, with a cultural emphasis. Students learn useful expressions and communication strategies for everyday situations in the language. Prerequisite: KOR 103 or consent of department. (GE=C3) (4 units)

202. Second Year College Korean II
Continuation of second year Korean. Provides students with further conversational and grammatical skills beyond those learned in KOR 201. Emphasis on communicative skills, speaking, reading, and writing with more complex structures in Korean. Prerequisite: KOR 201 or consent of department. (GE=C3) (4 units)

203. Second Year College Korean III
Further development of proficiency in speaking. Listening, reading, and writing. Further expansion of vocabulary enhances ability of students to understand and express more complex ideas and concepts. Prerequisite: KOR 202 or consent of department. (GE=C3) (4 units)

214. Conversation in Korean
Practice of oral Korean including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Prerequisite: KOR 103 or equivalent. (GE=C3) (4 units)
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.

**B.A. IN FRENCH**

**Requirements:**
- French and Francophone Studies Track - 70 units
- Teacher Track - 70 units
- Business Track - 70 units

**Total units required for graduation: 180**

**Requirements for the B.A. in French:**

**Core requirements (24 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 450. Advanced Grammar Review (4)
8. FREN 496. Senior Assessment (2)
9. One of the following tracks:

**French and Francophone Studies Track (46 units)**
1. Forty-six units chosen from:
   - FREN 250. Reading and Interpretation (4)
   - FREN 270. Introduction to French Culture (2-4) for a total of (4)
   - FREN 275. Introduction to French Business Culture (4)
   - FREN 310. Approaches to Literature (4)
   - FREN 321. French for Translation I (4)
   - FREN 322. French for Translation II (4)
   - FREN 323. Commercial Translation (4)
   - FREN 324. Technical Translation (4)
   - FREN 336. Francophone Women Writers (4)
   - FREN 360. Contemporary French Fiction (4)
   - FREN 370. Francophone Film and Culture (4)
   - FREN 381. French Civilization I (4)
   - FREN 382. French Civilization II (4)
   - FREN 399. Community Service Project (1-2)
   - FREN 407. Comparative Linguistics: French/English (4)
   - FREN 408. Introduction to French Advertising (4)
   - FREN 409. Business French (4)
   - FREN 410. Business French Case Studies (4)
   - FREN 411. Studies in the Novel (4)
   - FREN 412. Studies in Theater (4)
   - FREN 413. Studies in Poetry (4)
   - FREN 420. Special Topics in French Literature (4)
   - FREN 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)
   - FREN 514. Seminar in French Language, Literature or Civilization (4)
   - FREN 575. Internship (1-4)

**Teacher Track (46 units)**
1. FLAN 312. Pedagogies for Foreign Language Teaching (4)
2. FLAN 350. Language Acquisition and Early Field Experience for Future Teachers (4)
3. FREN 407. Comparative Linguistics: French/English (4)
4. FREN 500. Advanced Performance Assessment (2)
5. Thirty-two units chosen from:
   - FREN 250. Reading and Interpretation (4)
   - FREN 270. Introduction to French Culture (2-4) for a total of (4)
   - FREN 310. Approaches to Literature (4)
   - FREN 321. French for Translation I (4)
   - FREN 322. French for Translation II (4)
   - FREN 336. Francophone Women Writers (4)
   - FREN 360. Contemporary French Fiction (4)
   - FREN 370. Francophone Film and Culture (4)
   - FREN 381. French Civilization I (4)
   - FREN 382. French Civilization II (4)
   - FREN 399. Community Service Project (1-2)
   - FREN 408. Introduction to French Advertising (4)
   - FREN 411. Studies in the Novel (4)
   - FREN 412. Studies in Theater (4)
   - FREN 413. Studies in Poetry (4)
   - FREN 420. Special Topics in French Literature (4)
   - FREN 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)
   - FREN 514. Seminar in French Language, Literature or Civilization (4)
   - FREN 575. Internship (1-4)

**Business Track (46 units)**
1. FREN 321. French for Translation I (4)
2. FREN 322. French for Translation II (4)
3. FREN 409. Business French (4)
4. FREN 410. Business French Case Studies (4)
5. Fourteen units chosen from:
   - FREN 270. Introduction to French Culture (2-4) for a total of (4)
   - FREN 275. Introduction to French Business Culture (4)
   - FREN 323. Commercial Translation (4)
   - FREN 324. Technical Translation (2)
   - FREN 381. French Civilization I (4)
   - FREN 382. French Civilization II (4)
   - FREN 399. Community Service Project (1-2)
FREN 408. Introduction to French Advertising (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)
FIN 590. Seminar in Finance (4) when the topic is French Stock Market
6. ACCT 211. Introductory Accounting I (4)
7. IST 101. Introduction to Information Technology (4)
8. MGMT 302. Management and Organizational Behavior (4)
9. MKTG 305. Marketing Principles (4)

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.

The B.A. in French, Teacher Track requires that students complete at least 36 units of upper-division coursework in courses taught in French.

TEACHING CREDENTIAL PROGRAM
The B.A. in French, Teacher Track, is designed to prepare students for the CSET exam (required for the single subject teaching credential in French in California). For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see Page 170 or contact the Credentials Office, CE-102.

MINOR IN FRENCH
Requirements (34 units)
Requirements for a minor in French:
1. Proficiency in French equal to that of FREN 103. College French III or equivalent.
2. FREN 201. Culture and Communication II (4)
3. FREN 202. Culture and Communication III (4)
4. Four units chosen from:
   FREN 250. Reading and Interpretation (4)
   FREN 310. Approaches to Literature (4)
5. FREN 295. Intermediate Assessment (2)
6. Eight units chosen from:
   FREN 270. Introduction to French Culture (4)
   FREN 303. Contemporary Spoken French (4)
   FREN 307. Phonetics (4)
   FREN 321. French for Translation I (4)
   FREN 350. Advanced French Composition (4)
7. Twelve units chosen from any upper-division French 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; 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in French/English Translation
Certificate Requirements (30 units)
1. Proficiency in French equal to that of FREN 103. College French III or equivalent.
2. FREN 295. Intermediate Assessment (2)
3. FREN 321. French for Translation I (4)
4. FREN 322. French for Translation II (4)
5. FREN 323. Commercial Translation (4)
6. FREN 350. Advanced French Composition (4)
7. Eight units chosen from:
   FREN 270. Introduction to French Culture (4)
   FREN 324. Technical Translation (4)
   FREN 382. French Civilization II (4)
   FREN 408. Introduction to French Advertising (4)
   FREN 460. Contemporary France (4)
   FREN 461. Contemporary Issues in the Francophone World (4)
8. Four units chosen from:
   ENG 306. Expository Writing (4)
   HUM 306. Expository Writing for the Humanities (4)
   MKTG 306. Expository Writing for Administration (4)

COURSE OFFERINGS IN FRENCH (FREN)
Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division
Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. College French I
Emphasizes listening and speaking, with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree. (4 units)

102. College French II
Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Ability to describe events in present, near past and near future. Prerequisite: FREN 101 or consent of department. (4 units)

103. College French III
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. Formerly FREN 150. Prerequisite: FREN 102 or consent of department. (GE=C3) (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 103 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. Prerequisite: FREN 103 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. 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)

270. Introduction to French Culture
Written research project based on traveling or living in a French-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. (2-4 units)

275. Introduction to French Business Culture
Analysis of French business etiquette and culture. Focus on French business practices, traditions, values, and communication styles, including practical tips for doing business in France. (4 units)

290. French Literature in English
Introduction to French literature read in English translation. (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)

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.

301. French for Reading I
Students read French and translate from French to English. No prior knowledge of French is necessary. Students move from a novice level of reading skill to an intermediate level. This course is not applicable towards the French major, minor or certificate. (4 units)

302. French for Reading II
Building on the French reading skills of French 301, students move from an intermediate level of reading skill to an advanced level; by the end of the course students will be able to translate scholarly articles in French from a variety of disciplines into English. This course is not applicable towards the French major, minor or certificate. (4 units)

303. Contemporary Spoken French
Practice of contemporary spoken French through the reading and discussion of current topics in the French-speaking world. 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. Prerequisite: FREN 202 or consent of department. (4 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)

321. French for Translation I
Techniques of translation with extensive practice from French into English and English into French. Prerequisite: FREN 202 and 295 or consent of department. (4 units)

322. French for Translation II
Advanced translation techniques and practice across disciplines from French into English and English into French. Prerequisite: FREN 321 or consent of department. (4 units)

323. Commercial Translation
Methods and techniques for translating business-related texts from French into English and English to French. Prerequisites: FREN 321 and 322 or consent of department. (4 units)

324. Technical Translation
Extensive practice in translating texts from a variety of technical and scientific disciplines from French into English and from English into French. Prerequisites: FREN 321 and 322 or consent of department. (2 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. Prerequisites: FREN 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 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. (1-2 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 295 and 307 or consent of department. (4 units)
408. Introduction to French Advertising
Explores culture, legal, and business aspects of advertising industry in France, including agency-client relations, planning and execution of advertising campaigns, creative strategy, and adaptation of international advertising for French markets. Prerequisite: FREN 303 or 350 or consent of department. (4 units)

409. Business French
Introduction to commercial vocabulary, business practices, and socioeconomic issues in French-speaking contexts. FREN 409 and 410 prepare students to take the Certificate of the Paris Chamber of Commerce and Industry exam (DFA–1). Prerequisite: FREN 303 or 350 or consent of department. FREN 409 highly recommended. (4 units)

410. Business French Case Studies
Analysis of Francophone and cross-cultural business behavior through case studies and problem-solving. Prerequisite: FREN 303 or 350 or consent of department. FREN 409 and 410 prepare students to take the Certificate of the Paris Chamber of Commerce and Industry exam (DFA–1). Prerequisite: FREN 303 or 350 or consent of department. FREN 409 highly recommended. (4 units)

411. Studies in the Novel
Analysis of major novels written in French from various periods and Francophone cultures. Prerequisites: FREN 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 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 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)

450. 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 295 or consent of department. FREN 350 strongly recommended. (4 units)

470. Special Topics in Francophone Cultures
Critical examination of selected Francophone works focusing on a particular aspect of Francophone society or historical period. May be repeated for credit as topics change. Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor. (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 295 and consent of department. (1-4 units)
GENDER AND SEXUALITY STUDIES

College of Social and Behavioral Sciences

Gender and Sexuality Studies Program
College of Education Building, Room 226
(909) 537-5655  gendersexuality.csusb.edu

Social and Behavioral Sciences Building, Room 207
(909) 537-7502

Minor
Gender and Sexuality Studies

Certificate Program
Gender and Sexuality Studies

COORDINATOR: Todd Jennings

CSUSB offers both a minor and certificate program in Gender and Sexuality Studies. The aim of both programs is to prepare students, through the study of gender and sexuality, with insights, knowledge, and interpretive frameworks that will equip them personally, intellectually, and professionally. The programs allow students to examine how gender and sexuality as social constructs shape individual lives, groups, institutions, and social structures. Students will have the opportunity to examine individual development, couples, families, small groups, and organizations as well as the media, arts, and economic and political systems. The programs encourage students to examine how gender and sexuality intersect with race, culture, ethnicity, and social class in the interest of social justice. Toward these ends, students customize programs specifically to their interests and professional goals, selecting from a wide variety of courses across the university.

MINOR IN GENDER AND SEXUALITY STUDIES

Requirements (28 units) (see Addendum for program changes)

Requirements for a minor in Gender and Sexuality Studies:

1. Eight units chosen from:
   - GSS 100. Introduction to Women's Studies (4)
   - GSS 101. Introduction to Masculinity Studies (4)
   - GSS 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)

2. Sixteen units chosen from:
   - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
   - ANTH 380. Gender and Language (4)
   - ART 305. Women and Art (4)
   - BIOL 314. Biology of Human Sexuality (4)
   - COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)
   - COMM 401. Gender, Race and Media (4)
   - COMM 411. Gender and Communication (4)
   - COMM 511. Feminist Contributions to Communication Theories (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)
   - ENG 336. Women Writers (4)
   - GSS 336. Women Writers (4)
   - FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)
   - FREN 336. Francophone Women Writers (4)
   - GSS 100. Introduction to Women’s Studies (4) if not taken in category 1
   - GSS 101. Introduction to Masculinity Studies (4) if not taken in category 1
   - GSS 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4) if not taken in category 1
   - GSS 300. Feminist Research Methods (4)
   - GSS 390. Topics in Gender and Sexuality Studies (4)
   - GSS 420. Feminist Theory (4)
   - GSS 425. Women as Agents of Social Change (4)
   - GSS 450. Queer Theory (4)
   - GSS 575. Internship in Gender and Sexuality Programs and Services (2) for a total of (4)
   - GSS 595. Independent Study (2-5) for a maximum of (8)
   - HSCI 404. Women’s Health Issues (4)
   - HSCI 405. Health Issues of Men (4)
   - HIST 344. Women in U.S. History: 1865-Present (4)
   - HIST 345. Women in U.S. History: 1620-1865 (4)
   - 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)

Note: Special Topic courses: Students may receive credit toward an elective 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 Gender and Sexuality Studies Program for permission.

3. Four units chosen from:
   - HUM 325. Perspectives on Gender (4)
   - NSCI 325. Perspectives on Gender (4)
   - SSCI 325. Perspectives on Gender (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
Certificate in Gender and Sexuality Studies

Certificate requirements (28 units)

1. Twenty-eight units chosen from:
   - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
   - ANTH 380. Gender and Language (4)
   - ART 305. Women and Art (4)
   - BIOL 314. Biology of Human Sexuality (4)
   - COMM 364. Topics in Human Communication (when the topic is Gay/Lesbian Relationships) (4)
   - COMM 401. Gender, Race and Media (4)
   - COMM 411. Gender and Communication (4)
   - CJUS 451. Women and Crime (4)
   - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
   - May choose only one of the following two courses:
     - ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
     - GSS 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)
   - May choose only one of the following two courses:
     - ENG 336. Women Writers (4)
     - GSS 336. Women Writers (4)
   - FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)
   - GSS 100. Introduction to Women's Studies (4)
   - GSS 101. Introduction to Masculinity Studies (4)
   - GSS 103. Introduction to Gay, Lesbian, Bisexual, and Transgender Studies (4)
   - GSS 300. Feminist Research Methods (4)
   - GSS 390. Topics in Gender and Sexuality Studies (4)
   - GSS 420. Feminist Theory (4)
   - GSS 425. Women as Agents of Social Change (4)
   - GSS 450. Queer Theory (4)
   - GSS 575. Internship in Women's Programs and Services (2) for a total of (4)
   - GSS 595. Independent Study (2-5) for maximum of (8)
   - HSCI 404. Women's Health Issues (4)
   - HSCI 405. Health Issues of Men (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. Perspectives on Gender (4)
     - NSCI 325. Perspectives on Gender (4)
     - SSCI 325. Perspectives on Gender (4)
   - PHIL 364. Philosophy of Race and Ethnicity (4)
   - PHIL 367. 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)

Students may receive credit 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 Gender and Sexuality Studies Program for permission.

COURSE OFFERINGS IN
GENDER AND SEXUALITY STUDIES (GSS)

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, including multiple aspects of diversity among women. Formerly WSTD 100 and 200. (GE=D4) (4 units)

101. Introduction to Masculinity Studies
Different ways that masculinity is constructed, understood, and represented historically and contemporarily. Social and personal meanings of masculinity across multiple contexts including the definitions of masculinity held by people as shaped by sex, culture, nationality, social class, physicality, race/ethnicity, age and sexual orientation. (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. Addresses multiple aspects of diversity among LGBT people, their histories, and experiences. Formerly WSTD 103. (GE=D4) (4 units)

Upper Division

300. Feminist Research Methods
Development and implementation of research (quantitative or qualitative) informed by feminist theory. Formerly WSTD 300. (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.) Formerly WSTD 336. (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.) Formerly WSTD 357. (4 units)

390. Topics in Gender and Sexuality Studies
Examination of selected topics of current interest in gender and sexuality studies. May be repeated for credit as topics change. Formerly WSTD 390. (4 units)

420. Feminist Theory
Survey of feminist theory. Formerly WSTD 420. (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. Formerly WSTD 425. (Prerequisite: GSS 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. Formerly WSTD 450. (4 units)

575. Internship in Gender and Sexuality Programs and Services
Supervised work and study in private or public organizations involving gender and sexuality issues. May be repeated once for credit, a total of eight units may apply toward graduation. Graded credit/no credit. Formerly WSTD 575. Prerequisite: consent of the Gender and Sexuality Studies Program Committee coordinator. (2-4 units)

595. Independent Study
Investigation of special topics in gender and sexuality studies that are not covered by the curricular offerings in gender and sexuality 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 gender and sexuality studies. Formerly WSTD 595. Prerequisites: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator. (2-5 units)
GEOGRAPHY

Department of Geography and Environmental Studies
Social and Behavioral Sciences Building, Room 327J
(909) 537-5519 geog.csusb.edu

Bachelor of Arts

Geography - Geography Option
Geography - Global Studies Option

Minor
Geography
Geography - Global Studies

Certificate Programs
Geographic Information Systems
Urban Planning

FACULTY: Andrew Bodman, Kevin Grisham, Jeffrey Hackel (Emeritus), Rajrani Kalra, Michal Kohout, Ted McDowell (Emeritus), Norman Meek (Chair), James Mulvihill (Emeritus), Richard Rowland (Emeritus), Bo Xu, Jenny Zorn

Geography is concerned with the spatial variations and inter-relationships 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 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 - GEOGRAPHY OPTION
Requirements (68 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 Cartography (5)

Upper-division requirements (50 units)
1. GEOG 305. Geographic Statistics and Research Methods (4)
2. Twelve units chosen from:
   GEOG 307. Transportation Issues and Development (4)
   GEOG 320. Geography of Social Issues (4)
   GEOG 322. United States and Mexico Border Issues (4)
   GEOG 340. Urban Planning and Land Development (4)
   GEOG 440. Understanding the City (4)

3. 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. North America (4)

5. Eight units chosen from:
   GEOG 306. Remote Sensing of the Environment (4)
   GEOG 308. Advanced Geographic Information Systems (5)
   GEOG 315. Spatial Analysis (4)
   GEOG 402. Geographic Information Systems (5)
   GEOG 406. Digital Image Processing (4)
   GEOG 500. Senior Seminar (2)

6. Four units of upper-division course work in geography except GEOG 300 and 311 which cannot count for the Geography major.

B.A. IN GEOGRAPHY - GLOBAL STUDIES OPTION
Requirements (65 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography - Global Studies Option:

Lower-division requirements (17 units)
1. GEOG 103. Physical Geography (5)
2. GEOG 201. Map Interpretation (4)
3. PCSI 204. International Relations (4)
4. SSCI 165. Regions and Peoples of the World (4)

Upper-division requirements (20 units)
1. GEOG 303. Introduction to Global Studies (4)
2. GEOG 305. Geographical Statistics and Research Methods (4)
3. GEOG 312. Geography of the Developing World (4)
4. GEOG 313. Geography of the Developed World (4)
5. GEOG 350. Conservation and Natural Resources (4)

Electives (28 units)
1. Four units chosen from:
   ANTH 470. Globalization and Culture (4)
   ANTH 472. Colonial and Postcolonial Anthropology (4)
   ANTH 492. Economic Anthropology (4)

2. Four units chosen from:
   ECON 430. International Economics (4)
   ECON 450. Global Economy (4)
   GEOG 420. Geography of Economic Activity (4)

3. Four units chosen from:
   HSCI 344. International Perspectives on Nutrition (4)
   HSCI 359. Global Health (4)

4. Four units chosen from:
   PSCI 300. Western Political Systems (4)
   PSCI 306. Developing Political Systems (4)
5. Four units chosen from:
   PSCI 400. International Politics (4)
   GEOG 320. Geography of Social Issues (4)

6. Eight units chosen from other university courses, or from courses not taken in the upper-division elective categories 1 through 5. These courses must have an international or world regions perspective and must be chosen in consultation with a departmental advisor.

MINOR IN GEOGRAPHY
Requirements (33 units) (see Addendum for program changes)

Requirements for a minor in Geography:
Lower-division requirements (9 units)
1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
Upper-division requirements (24 units)
2. GEOG 402. Introduction to Geographic Information Systems and Cartography (5)
3. GEOG 406. Digital Image Processing (4)
4. GEOG 407. Internship in Geography (4-5)

MINOR IN GEOGRAPHY - GLOBAL STUDIES
Requirements (29 units)

Requirements for a minor in Geography - Global Studies:
Lower-division requirements (9 units)
1. GEOG 103. Physical Geography (5)
2. SSCI 165. Regions and Peoples of the World (4)
Upper-division requirements (20 units)
1. GEOG 303. Introduction to Global Studies (4)
2. GEOG 312. Geography of the Developing World (4)
3. GEOG 313. Geography of the Developed World (4)
4. Eight units chosen from any upper-division courses listed in the Geography: Global Studies (4)

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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Geographic Information Systems
Certificate Requirements (30-31 units)
1. GEOG 201. Map Interpretation (4)
2. GEOG 202. Introduction to Geographic Information Systems and Cartography (5)
3. GEOG 308. Advanced Geographic Information Systems (5)
4. GEOG 315. Spatial Analysis (4)
5. GEOG 402. Geographic Information Systems Applications (5)
6. A minimum of eight units chosen from:
   GEOG 306. Remote Sensing of Environment (4)
   GEOG 406. Digital Image Processing (4)
   GEOG 575. Internship in Geography (4-5)

Certificate in Urban Planning
Certificate Requirements (24-25 units)
1. GEOG 202. Introduction to Geographic Information Systems and Cartography (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 (4-5)
   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) (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=B3) (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 consent 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. (4 units)
202. Introduction to Geographic Information Systems and Cartography
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)

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)

303. Introduction to Global Studies
Examination of the causes and consequences of globalization, including climate change, migration, cultural conflicts, and economics. Prerequisite: SSCI 165 or consent of instructor. (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
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)

315. Spatial Analysis
Concepts and applications of modern spatial analysis, information systems and spatial statistics. Prerequisite: GEOG 202 or consent of instructor. (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. 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. 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 well methods for determining spatial patterning. Formerly GEOG 460. Prerequisites: BIOL 100 or HSCI 120, and GEOG 103; or consent of instructor. (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. 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)

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 consent of Geography Department. (2 units)

575. Internship in Geography
Supervised work in public or private organizations emphasizing practical applications of geographic concepts. Approximately 120 hours are required for four units of credit and at least 150 hours are required for five units of credit. May be taken only once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (4-5 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. (2-4 units)

Graduate level courses can be found on Page 493.
GEOL 101. Introduction to Geologic Mapping (4)
GEOL 121. Basic Concepts of Physics I (5)
GEOL 122. Basic Concepts of Physics II (4)
GEOL 123. Basic Concepts of Physics III (4)
Group B:
PHYS 211. General Physics I (5)
PHYS 221. General Physics II (5)
PHYS 222. General Physics III (5)

Upper-division requirements (55 units)

1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 312. Geology of California (4)
3. GEOL 320. Mineralogy and Crystallography (5)
4. GEOL 321. Optical Mineralogy (3)
5. GEOL 322. Introduction to Geochemistry (4)
6. GEOL 325. Igneous and Metamorphic Petrology (5)
7. GEOL 330. Sedimentary Petrology (5)
8. GEOL 340. Stratigraphy (5)
9. GEOL 360. Structural Geology (5)
10. GEOL 398. Research Methods and Design (1)
11. GEOL 399. Undergraduate Geologic Research (3)
12. GEOL 590. Senior Seminar (2)
13. A minimum of nine units chosen in consultation with a faculty advisor from the list below. No more than four units may be from a supervision course.

GEOG 202. Introduction to Geographic Information Systems and Cartography (5)
GEOG 308. Advanced Geographic Information Systems (5)
GEOG 400. Geomorphology (1)
GEOL 307. Service Learning in the Earth Sciences (1-2)
GEOL 310. Regional Field Geology (2)
GEOL 350. Paleontology (5)
GEOL 370. Tectonics (4)
GEOL 391. Advanced Geologic Mapping (2-6)
GEOL 395. Directed Studies (1-4)
GEOL 540. Advanced Topics in Geology (4)
GEOL 545. Laboratory for Advanced Topics in Geology (1-2)
GEOL 550. Earth Resources (5)
GEOL 551. Neotectonics and Seismic Hazard Analysis (5)
GEOL 552. Volcanology and Volcanic Hazard Assessment (5)
GEOL 553. Advanced Structural Geology (5)
GEOL 595. Independent Study (1-6)
GEOL 597. Senior Honors Research (2-4)

B.A. IN GEOLGY – INTEGRATED TEACHING TRACK

Requirements (144-147 units)

Total units required for graduation: 210-213

Students who successfully meet the requirements for the Teaching Track in Geosciences will earn a B.A. in Geology and a Single Subject Preliminary Teaching Credential in Geosciences. In addition to the course requirements listed below, students must complete the following to qualify for a Preliminary Teaching Credential:
1. Successfully complete the California Basic Education Skills Test (CBEST) and the appropriate California Subject Examinations for Teachers (CSET). These exams must be passed before enrolling in ESEC 550A;
2. Submit a Program Application File (PAF) to the Credentials Office;
3. Identify an advisor who is approved by the chairs of the Geological Sciences Department and the Department of Science, Mathematics, and Technology Education;
4. Provide verification of a negative tuberculin examination within the last 24 months, and submit an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;

Academic Achievement:
5. Applicants must maintain the following minimum grade point averages:
   A. A grade point average of 2.75 in all baccalaureate course work.
   B. 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 professional education courses. They can only repeat two of these courses.
6. Course work taken at another institution, or more than seven years ago, is subject to approval by the chairs of both the Geological Sciences Department and the Department of Science, Mathematics, and Technology Education.

Requirements for the B.A. in Geology – Integrated Teaching Track:

Lower-division requirements (39-42 units)
1. Five units chosen from:
   1. BIOL 100. Topics in Biology (5)
   2. BIOL 200. Biology of the Cell (5)
2. A minimum of five units chosen from:
   1. CHEM 205. Fundamentals of Chemistry 1: General Chemistry (5)
   2. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
3. GEOL 101. Introductory Geology (5)
4. GEOL 250. Historical Geology (5)
5. MATH 211. Basic Concepts of Calculus (4)
6. A minimum of thirteen units chosen from Group A or B below:
   Group A:
   1. PHYS 121. Basic Concepts of Physics I (5)
   2. PHYS 122. Basic Concepts of Physics II (4)
   3. PHYS 123. Basic Concepts of Physics III (4)
   Group B:
   1. PHYS 221. General Physics I (5)
   2. PHYS 222. General Physics II (5)
   3. PHYS 223. General Physics III (5)
7. Two units chosen from:
   1. GEOL 205. Volcanic Hazards, Surveillance and Prediction (2)
   2. GEOL 210. Earthquakes: Science and Public Policy (2)

Upper-division requirements (50 units)
1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 312. Geology of California (4)
3. GEOL 320. Mineralogy and Crystallography (5)
4. GEOL 321. Optical Mineralogy (3)
5. GEOL 325. Igneous and Metamorphic Petrology (5)
6. GEOL 330. Sedimentary Petrology (5)
7. GEOL 340. Stratigraphy (5)
8. GEOL 360. Structural Geology (5)
9. GEOL 398. Research Methods and Design (1)
10. GEOL 399. Undergraduate Geologic Research (3)
11. GEOL 590. Senior Seminar (2)

B.S. IN GEOLOGY

Requirements (117-119 units)
Total units required for graduation: 183-187

Requirements for the B.S. in Geology:

Lower-division requirements (48-50 units)
1. Five units chosen from:
   1. BIOL 100. Topics in Biology (5)
   2. BIOL 200. Biology of the Cell (5)
   3. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. GEOL 101. Introductory Geology (5)
4. GEOL 250. Historical Geology (5)
5. MATH 211. Basic Concepts of Calculus (4)
6. MATH 212. Calculus II (4)
7. MATH 211. Basic Concepts of Calculus (4)
8. A minimum of 13 units chosen from Group A or B below:
   Group A:
   1. PHYS 121. Basic Concepts of Physics I (5)
   2. PHYS 122. Basic Concepts of Physics II (4)
   3. PHYS 123. Basic Concepts of Physics III (4)
   Group B:
   1. PHYS 221. General Physics I (5)
   2. PHYS 222. General Physics II (5)
   3. PHYS 223. General Physics III (5)

Upper-division requirements (50 units)
1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 320. Mineralogy and Crystallography (5)
3. GEOL 321. Optical Mineralogy (3)
4. GEOL 325. Igneous and Metamorphic Petrology (5)
5. GEOL 330. Sedimentary Petrology (5)
6. GEOL 340. Stratigraphy (5)
7. GEOL 360. Structural Geology (5)
8. Eight units chosen from:
   1. GEOL 390. Field Camp (8)
   2. GEOL 391. Advanced Geologic Mapping (2-6)
   3. GEOL 398. Research Methods and Design (1)
   4. GEOL 399. Undergraduate Geologic Research (3)
   5. GEOL 590. Senior Seminar (2)
General Geology Option (19 units)
1. A minimum of 19 units chosen from the following list after consultation with a faculty advisor. No more than four units may be taken from supervision courses.
   - GEOG 202. Introduction to Geographic Information Systems and Cartography (5)
   - GEOG 308. Advanced Geographic Information Systems (5)
   - GEOG 480. Geomorphology (4)
   - GEO 307. Service Learning in the Earth Sciences (1-2)
   - GEO 310. Regional Field Geology (2)
   - GEO 312. Geology of California (4)
   - GEO 350. Paleontology (5)
   - GEO 370. Tectonics (4)
   - GEO 375. Groundwater Hydrology (4)
   - GEO 391. Advanced Geologic Mapping (2-6)
   - GEO 395. Directed Studies (1-4)
   - GEO 540. Advanced Topics in Geology (4)
   - GEO 545. Laboratory for Advanced Topics in Geology (1-2)
   - GEO 550. Earth Resources (5)
   - GEO 551. Neotectonics and Seismic Hazard Analysis (5)
   - GEO 552. Volcanology and Volcanic Hazard Assessment (5)
   - GEO 553. Advanced Structural Geology (5)
   - GEO 575. Internship in Geology (2-4)
   - GEO 595. Independent Study (1-6)
   - GEO 597. Senior Honors Research (2-4)
   - MATH 262. Applied Statistics (4)

Environmental Geology Option (19 units)
1. GEO 375. Groundwater Hydrology (4)
2. GEO 376. Field Methods in Hydrology (4)
3. GEO 430. Engineering Geology (5)
4. A minimum of six units chosen, after consultation with a faculty advisor, from (no more than two units from supervision courses):
   - CHEM 206. Organic Chemistry (5)
   - GEOG 202. Introduction to Geographic Information Systems and Cartography (5)
   - GEOG 470. Hydrology and Water Resources (4)
   - GEOG 480. Geomorphology (4)
   - GEOG 512. Geology of California (4)
   - GEO 540. Advanced Topics in Geology (4)
   - GEO 545. Laboratory for Advanced Topics in Geology (1-2)
   - GEO 550. Earth Resources (5)
   - GEO 551. Neotectonics and Seismic Hazard Analysis (5)
   - GEO 552. Volcanology and Volcanic Hazard Assessment (5)
   - GEO 553. Advanced Structural Geology (5)
   - GEO 575. Internship in Geology (2-4)
   - GEO 595. Independent Study (1-6)
   - GEO 597. Senior Honors Research (2-4)
   - MATH 262. Applied Statistics (4)

MINOR IN GEOLOGY
Requirements (35 units)

Requirements for a minor in Geology:

Lower-division requirements (20 units)
1. GEO 101. Introductory Geology (5)
2. GEO 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 GEO 309.

DEPARTMENTAL HONORS
Students majoring in geological sciences are eligible to receive honors in geological sciences at graduation if the following conditions are met:
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 GEO 597.
Applications for candidacy for departmental honors must be made by the student at the beginning of the senior year. Approval of candidacy rests with the department.

COURSE OFFERINGS IN GEOLOGY (GEOL)
The quarters listed for course offerings are tentative.

Lower Division

101. Introductory Geology (FWS)
An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B3) (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 consent of department. (1 unit)

205. Volcanic Hazards, Surveillance and Prediction
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 (FWS)
An introduction to the scientific study of earthquakes, the assessment of seismic hazards, earthquake engineering, and the physical and sociological effects of earthquakes. Various public policies aimed at mitigating earthquake hazards and attempts at earthquake prediction will also be examined. (GE=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. (5 units)
295. Special Projects in Geology (FWS)
Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1-2 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 notes, 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)

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. (1-2 units)

309. Earth: The Blue Planet (F)
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)
Interpretation of the geological features and evolution of California. Four hours lecture. Overnight field trips may be required. Prerequisite: GEOL 101. (4 units)

320. Mineralogy and Crystallography (F)
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. One hour lecture and six hours laboratory. Materials fee required. Prerequisite: GEOL 320 with a grade of "C" or better. (3 units)

322. Introduction to Geochemistry (S)
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. Prerequisite: GEOL 320 with a grade of "C" or better. (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 321 with a grade of "C" or better. (5 units)

330. Sedimentary Petrology (W)
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 321 with a grade of "C" or better. (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 with a grade of "C" or better. (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: GEOL 250. (5 units)

360. Structural Geology (W)
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
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
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: 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 with a grade of "C" or better. (4 units)

390. Field Camp
Geological field work at selected areas in the western United States. Techniques of geologic mapping and structural, petrologic, stratigraphic, and paleontologic interpretation will be used to interpret the geological history and significance of those areas through reports, maps, cross-sections, and diagrams. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of instructor required to register. Materials fee required. Prerequisites: GEOL 301, 325, 340, and 380 with a grade of "C" or better in each course and consent of instructor. (8 units)
391. Advanced Geologic Mapping (FWS)
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. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of instructor required to register. Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor. (2-6 units)

395. Directed Studies (FWS)
Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit. Prerequisites: consent of the instructor. (1-4 units)

398. Geological Research Methods and Design (S)
Students are advised and guided in research methods and design. Critical reasoning and the scientific method are used to develop and write a research proposal, following departmental guidelines, to undertake a project for GEOL 399 and/or GEOL 597. Graded credit/no credit. Prerequisite: NSCI 306 and consent of instructor. (1 unit)

399. Undergraduate Geological Research (F)
Laboratory and/or field research in geological sciences under the direction of a faculty advisor. Results will be presented as a research paper. Grade is consensus grade of geology faculty. Formerly GEOL 399C. Prerequisite: GEOL 398. (3 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 301 and 360 with a grade of "C" or better in each course. (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
Directed readings of important geologic literature that have shaped our understanding of the earth and its history. May be repeated for credit. Prerequisite: consent of instructor. (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
Lab 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. (1-2 units)

550. Earth Resources
An overview of the geology, distribution, and occurrence of many types of ore deposits, and the methods of their extraction. Topics include metallic resources, industrial minerals, building materials, and energy resources. Weekend field trip(s) may be required. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: GEOL 322 with a grade of "C" or better. (5 units)

551. Neotectonics and Seismic Hazard Analysis
State-of-the-art methods for studying active faults. Topics include basic seismology, significant historic earthquakes, identifying active faults, estimating fault slip rates, types of evidence for prehistoric earthquakes, models for earthquake recurrence, and evaluating the potential for and likely effects of future earthquakes. Four hours lecture and three hours laboratory. Materials fee required. Formerly a topic under GEOL 540. Prerequisites: GEOL 301 and 360 with a grade of "C" or better in each course. (5 units)

552. Volcanology and Volcanic Hazard Assessment
Concepts in modern volcanology and assessment of volcanic hazards. Topics include magma properties; eruptive styles; lava flows; pyroclastic and volcaniclastic deposits; volcanoes and climate; volcanic hazards and their assessment and mitigation; case studies of classic volcanic eruptions. Four hours lecture and three hours laboratory. Weekend field trip(s) will be required. Materials fee required. Formerly a topic under GEOL 540. Prerequisites: GEOL 325 with a grade of "C" or better. (5 units)
553. Advanced Structural Geology
Advanced topics in theory and analysis of stress and strain; examination of deformation mechanisms; geometry, kinematics, and mechanisms of orogenic belts. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisites: GEOL 325, 330 and 360 with a grade of "C" or better. Recommended: GEOL 370. (5 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 and department chair. (2-4 units)

590. Senior Seminar (S)
Assessment of student learning through a standardized test and through written and oral presentation of a research project, which may have been initiated as part of another course. This course should be taken in the spring quarter immediately prior to graduation. Prerequisite or corequisite: GEOL 399 with a grade of "C" or better. (2 units)

595. Independent Study (FWS)
Laboratory, field or library research conducted under the direction of a faculty member. A total of four units in GEOL 595 may be applied towards the major in geology. Prerequisite: consent of instructor. (1-6 units)

597. Senior Honors Research (FWS)
Original research in the geological sciences. Work will be conducted in consultation with a faculty advisor, and will culminate in a written paper and an oral presentation. Grade is consensus grade of the geology faculty. Prerequisite: GEOL 399 with a grade of "C" or better. (2-4 units)

Graduate level courses can be found on Page 494.
GERMAN
Department of World Languages and Literatures
University Hall, Room 314
(909) 537-5847  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 198) and Humanities (Page 246). 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 103. College German III 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate for German/English Translators
Certificate requirements (36 units)
1. Proficiency in German equal to GER 103. College German III 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)

Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Exact times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

Lower Division
Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. College German I
Fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. (4 units)

102. College German II
Further study of the fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. Continuation of GER 101. (4 units)

103. College German III
Emphasis on oral and written competency at the intermediate level in a cultural context. Formerly GER 150. Prerequisite: two years of high school German or equivalent. (GE=C3) (4 units)

212. Composition
Comprehensive review of the principles of German grammar, emphasizing their application to composition. Prerequisite: GER 103 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 103 or equivalent. (GE=C3) (4 units)

216. Introduction to Literary Texts
Techniques of literary study and analysis. Vocabulary development. Prerequisite: GER 103 or equivalent. (GE=C3) (4 units)

218. Culture
Introduction to the culture and traditions of the German-speaking countries (principally Germany, Austria and Switzerland) as reflected in the arts and other social institutions. Course taught in German. (4 units)
290. **German Literature in English**  
Introduction to German literature read in English translation.  
(GE=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. (1-2 units)
HEALTH CARE MANAGEMENT
Department of Health Science and Human Ecology
Physical Sciences Building, Room 226
(909) 537-5339  health.csusb.edu

Bachelor of Science in Health Science
Concentration in Health Care Management

FACULTY: Kim Clark, Ted Coleman (Chair), Dan Fahey, Marsha Greer, Robert LaChausse, Chris Lindfelt, Lal Mian

Health care management 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, or 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 221.

All Health Science concentrations require grades of “C” (2.0) or better in all upper-division coursework with an HSCI prefix or any course approved for upper-division Health Science substitutions required in the major.

Health Care Management Concentration
1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements
1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 352. Principles of Environmental Health (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 370. Health Behavior (4)
5. HSCI 451. Principles of Epidemiology (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 Public Health (4)
5. HSCI 273. Software Applications in the Health Sciences (4)
6. HSCI 360. Medical Care Organizations (4)
7. HSCI 423. Health and Wellness of Older Adults (4)
8. HSCI 436. Human Resources Management in Health Care (4)
9. HSCI 438. Financial Management in Health Care (4)
10. HSCI 452. Special Topic in Health Science and Human Ecology (4)
11. HSCI 455. Health Policy and Law (4)
12. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
13. HSCI 468. Research Methodology in Health Science (4)
14. HSCI 480. Health Services Administration (4)
15. HSCI 489. Pre-Field Experience (2)
16. HSCI 493. Field Experience Seminar (1)
17. HSCI 495. Field Experience (4)
18. MGMT 302. Management and Organizational Behavior (4)
19. Twelve units of upper-division health science electives or other electives approved by an advisor.

HEALTH EDUCATION
Department of Health Science and Human Ecology
Physical Sciences Building, Room 226
(909) 537-5339  health.csusb.edu

Bachelor of Science in Health Science
Concentration in Public Health Education

FACULTY: Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Dan Fahey, Marsha Greer, Joseph Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Bob Phalen

Students pursuing careers in school health education are encouraged to enroll in the B.S. in Health Science, Integrated Teaching Track.

The Public Health Education concentration prepares graduates for professional positions in county health departments and other public health agencies, community-based organizations, health care, tribal health, international organizations, and for graduate programs in physician assistant, occupational therapy, and other allied health programs.

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 221.

All Health Science concentrations require grades of “C” (2.0) or better in all upper-division coursework with an HSCI prefix or any course approved for upper-division Health Science substitutions required in the major.

Public Health Education Concentration

Lower-division requirement
1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements
1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 352. Principles of Environmental Health (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 370. Health Behavior (4)
5. HSCI 451. Principles of Epidemiology (4)

Concentration 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. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (4)
7. HSCI 301. Foundations of Public Health Education (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 359. Global Health (4)
11. HSCI 364. Drug and Alcohol Use and Abuse (4)
12. HSCI 455. Health Policy and Law (4)
13. HSCI 468. Research Methodology in Health Science (4)
14. HSCI 471. Health Program Planning and Implementation (4)
15. HSCI 473. Strategies and Methods in Health Education (4)
16. HSCI 480. Health Services Administration (4)
17. HSCI 489. Pre-Field Experience (2)
18. HSCI 493. Field Experience Seminar (1)
19. HSCI 495. Field Experience (4)
20. Four units of upper division elective from SOC, ANTH, PA, GEOG, PSYC, HSCI as approved by advisor.
HEALTH SCIENCE

Accredited by the National Environmental Health Science and Protection Accreditation Council; California Department of Public Health-Environmental Health Specialist Registration Committee
(Enviromental Health Science Option)
SABPAC Approved (Public Health Education)

Department of Health Science and Human Ecology
Physical Sciences Building, Room 226
(909) 537-5339 health.csusb.edu

Bachelor of Science
Health Science
with concentrations in:
Environmental Health Science
Health Care Management
Public Health Education
Health Science - Integrated Teaching Track
Nutrition and Food Sciences (see Page 308)

Teaching Credential Preparation Program
Health Science

Minor
Health Science
Nutrition and Food Sciences (see Page 308)

Master of Science
Health Services Administration
(Degree requirements can be found on Page 496)

Certificate Programs
Gerontology (see Page 341)
Health Care Management

Certification
Audiometrist Certification

FACULTY: Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair),
Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse,
Chris Lindfelt, Lal Mian, Cindy Paxton (Emeritus), Robert Phalen

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 elimination of population health disparities.

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 308 for the description of this degree. In addition, the department offers a Master of Science in Health Services Administration, (see Page 496) and a Master of Public Health, (see Page 531). 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, allied health, and 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 Specialists), 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 Department of Public Health. Students who are certified by the environmental health coordinator will have met the academic and experience requirements for admittance to the State Environmental Health Specialist Registration Examination.

The Public Health Education concentration prepares graduates for professional positions in county health departments and other public health agencies, community-based organizations, health care, tribal health, or international organizations, and for graduate programs in physician assistant, occupational therapy, and other allied health programs. This is a SABPAC approved program.

Pre-professional students of medicine, dentistry, veterinary medicine, or other science-related fields seeking a major in health science should see Page 65 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 (104-106 units)

Total units required for graduation: 180-187

Requirements for the B.S. in Health Science:
Note: All Health Science concentrations require grades of "C" (2.0) or better in all upper-division coursework with an HSCI prefix or any course approved for upper-division Health Science substitutions required in the major. Certain required courses also apply in the university's general education program (See Page 68).

Health Science Core Courses (25 units)

Lower-division requirement (5 units)
1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (20 units)
1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 352. Principles of Environmental Health (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 370. Health Behavior (4)
5. HSCI 451. Principles of Epidemiology (4)

Concentration (79-93 units)

One of the following five concentrations is required for the major:

Environmental Health Concentration (91-93 units)
1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. Five units chosen from:
   BIOL 220. Principles of Microbiology (5)
   BIOL 320. Microorganisms (6)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Organic chemistry, a minimum of five units. Choose Group A, B, or C in its entirety:
   Group A
   CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (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)
   CHEM 223A. Organic Chemistry III: Lecture (3)
   CHEM 223B. Organic Chemistry III: Laboratory (1)
   Group B
   CHEM 232B. Principles of Organic Chemistry II (5)
   CHEM 232C. Principles of Organic Chemistry III (5)
   8. HSCI 380. Toxciology (4)
   9. HSCI 401. Advanced Environmental Health (5)
   11. HSCI 403. Vector-borne Disease Control (5)
   12. HSCI 478. Environmental Health Management (4)
   13. HSCI 480. Health Services Administration (4)
   14. HSCI 496. Internship in Environmental Health (4)
   15. HSCI 496. Internship in Environmental Health (4)
   16. 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)
      17. Six units of health science electives chosen from:
         HSCI 321. Health and Wellness of Older Adults (4)
         HSCI 322. 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 479. Directed Reading (1-4)
         HSCI 530. Food-borne Illnesses and Their Prevention (4)
         HSCI 531. Biotechnology (4)
         HSCI 557. Hazardous Material Control (4)
         HSCI 558. Management of Water Quality (4)
         HSCI 595. Independent Study (1-4)
   8. HSCI 436. Human Resources Management in Health Care (4)
   9. HSCI 438. Financial Management in Health Care (4)
   10. HSCI 492. Special Topic in Health Science and Human Ecology (4)
   11. HSCI 455. Health Policy and Law (4)
   12. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
   13. HSCI 468. Research Methodology in Health Science (4)
   14. HSCI 480. Health Services Administration (4)
   15. HSCI 489. Pre-Field Experience (2)
   16. HSCI 493. Field Experience Seminar (1)
   17. HSCI 495. Field Experience (4)
   18. MGMT 302. Management and Organizational Behavior (4)
   19. Twelve units of upper-division health science electives or other electives approved by an advisor.

Public Health Education Concentration (79 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. HSCI 271. Introduction to Public Health (4)
6. HSCI 273. Software Applications in the Health Sciences (4)
7. HSCI 301. Foundations of Public Health Education (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 359. Global Health (4)
11. HSCI 364. Drug and Alcohol Use and Abuse (4)
12. HSCI 455. Health Policy and Law (4)
13. HSCI 473. Health Program Planning and Implementation (4)
14. HSCI 471. Research Methodology in Health Science (4)
15. HSCI 473. Strategies and Methods in Health Education (4)
16. HSCI 480. Health Services Administration (4)
17. HSCI 489. Pre-Field Experience (2)
18. HSCI 493. Field Experience Seminar (1)
19. HSCI 495. Field Experience (4)
20. Four units of upper division elective from SOC, ANTH, PA, GEOG, PSYC, HSCI as approved by advisor.

B.S. IN HEALTH SCIENCE – INTEGRATED TEACHING TRACK

Requirements (145 units)

Total units required for graduation: 218-222

Requirements for the B.S. in Health Science - Integrated Teaching Track:

Students who successfully meet the requirements for the Integrated Teaching Track in Health Science will earn a B.S. in Health Science and a Single Subject Preliminary Teaching Credential in Health Science. In addition to the course requirements listed below, students must complete the following to qualify for a Preliminary Teaching Credential:

1. Successfully complete the California Basic Education Skills Test (CBEST) and the appropriate California Subject Examinations for Teachers (CSET). These exams must be passed before enrolling in ESEC 550A;
2. Submit a Program Application File (PAF) to the Credentials Office;
3. Identify an advisor who is approved by the chairs of the Health Science Department and the Department of Science, Mathematics, and Technology Education;
4. Provide verification of a negative tuberculin examination within the last 24 months, and submit an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Academic Achievement
   Applicants must maintain the following minimum grade point averages:
   A. A grade point average of 2.75 in all baccalaureate course work.
   B. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-.
   C. Students can only discount one grade in the professional education courses. They can repeat only two of these courses.
6. Course work taken at another institution, or more than seven years ago, is subject to approval by the chairs of both the Health Science Department and the Department of Science, Mathematics, and Technology Education.

Lower-division requirements (33 units)
1. HSCI 120. Health and Society: An Ecological Approach (5)
2. HSCI 271. Introduction to Community Health (4)
3. HSCI 273. Software Applications in the Health Sciences (4)
4. BIOL 220. Principles of Microbiology (5)
5. HSCI 352. Principles of Microbiology (5)
6. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)

Upper-division requirements (64 units)
1. HSCI 301. Foundations of Public Health Education (4)
2. HSCI 310. Health and Human Sexuality (4)
3. HSCI 315. Statistics for the Health Sciences (4)
4. HSCI 342. Nutrition for Your Health (4)
5. HSCI 352. Environmental Health I (4)
6. HSCI 364. Drug and Alcohol Use and Abuse (4)
7. HSCI 367. Human Disease Mechanisms (4)
8. HSCI 370. Health Behavior (4)
10. HSCI 455. Health Policy and Law (4)
11. HSCI 468. Research Methodology in Health Science (4)
12. HSCI 471. Health Program Planning and Implementation (4)
13. HSCI 473. Strategies and Methods in Health Education (4)
14. HSCI 540. School Health Programs and Practices (4)
15. Eight units of health science electives or other electives approved by an advisor.

Education courses (48 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 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment, and Classroom Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 506L. Curriculum and Instruction in Content Areas: Life and Physical Sciences (4)
8. ESEC 550A. Student Teaching (2)
9. The following courses must be taken together:
   ESEC 512. Assessment Seminar: Designing Instruction (2)
   ESEC 550B. Student Teaching (4)
10. The following courses must be taken together:
    ESEC 513. Assessment Seminar: Assessing Learning (2)
    ESEC 514. Assessment Seminar: Culminating Teaching Experience (2)
    ESEC 550C. Student Teaching (8)

^TEACHING CREDENTIAL

PREPARATION PROGRAM

The B.S. in Health Science, Integrated Teaching Track 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 track 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 170 or contact the Credentials Office, CE-102.

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 requirements (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;
3. An "A-" or better in HSCI 595. Independent Study (at least four units).

^CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 for additional certificate information.

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 341.
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 360. Medical Care Organizations (4)
4. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
5. HSCI 480. Health Services Administration (4)
6. Eight units chosen from:
   - HSCI 271. Introduction to Public Health (4)
   - HSCI 311. Organization and Management of Long-term Care Facilities (4)
   - HSCI 512. Clinical Operations of Ambulatory Care/Group Practices (4)
   - HSCI 513. Managed 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
Standards and guidelines for coordinated school health programs and comprehensive health education are introduced. Course content is formulated for those planning a career in K-8 education. Does not qualify as a Health Science elective, nor as a clear credential course for post-baccalaureate credential candidates. (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)

216. 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. Formerly HSCI 335. (2 units)

218. 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. Formerly HSCI 305. (2 units)

225. Introduction to the Dietetic Profession
An overview of the dietetic profession and careers in dietetics. Includes historical perspectives of the dietetic profession, professional organizations, ethics, future outlook of the profession, and traditional/ nontraditional career options in nutrition and dietetics. (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. Prerequisite: CHEM 205. (5 units)

271. Introduction to Public Health
An interdisciplinary overview of the public health field infrastructure and unique features and responsibilities of public health, the history and accomplishments of Public Health officials and agencies, various Public Health institutions, and an in-depth examination of the core Public Health disciplines. These include epidemiology of infectious and chronic disease, environmental health, health promotion, global health (including health disparities), health policy, and health services management. 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. (4 units)

295. Special Projects in Health Science
Individual investigation, research, study, or survey of selected problems. Prerequisite: consent of department. (1-2 units)

Upper Division

301. Foundations of Public Health Education
Examines the profession of public health education in various settings and selected historical, cultural, philosophical, professional, and ethical issues in the practice of health education. Emphasis is placed on leadership, professionalism, career development, professional organizations, and interrelationships among physical, social, and cultural forces in the practice of health promotion and education. (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. (4 units)

310. Health and Human Sexuality
Relationship between health and human sexuality with a theme of prevention of disease, disorder, and dysfunction through education. (4 units)

311. 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 301. Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, 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: MATH 110. (4 units)

322. **Air Pollution**
Principles of air quality management, including health implications of polluted air, applicable fundamentals of meteorology, air quality regulations, and current concepts in air pollution control technology. Prerequisites: college-level courses in biology and chemistry. (2 units)

324. **Radiological Health and Safety**
Ionizing radiation and its effects on health. Methods of identification, evaluation, and control are emphasized. Prerequisites: college-level courses in biology, chemistry, and physics. (2 units)

332. **Health Education in the Elementary School**
Health education concepts and content applied specifically to grades K-6. Stresses communication and instruction in health education for the teacher/school nurse, emphasizing the uniqueness and personal nature of health; techniques of health education; recognition of health education and other aspects of normal health and diseases/disorders common in children. Conforms with the State Framework for Education in the Health Sciences. Prerequisite: HSCI 120 or consent of instructor. (4 units)

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; the impact of food choices and lifestyle on health; discussion of current trends, fads, and fallacies in nutrition. May not be counted towards fulfilling requirements in the major or minor in the Nutrition and Food Sciences program. (4 units)

344. **International Perspectives on Nutrition**
Study and comparison of the incidence and causes of malnutrition in developing and industrialized nations. Discussion of political, economic, ecological, and cultural factors influencing malnutrition. (4 units)

345. **Advanced Food Science**
Study of food processing technology including thermal processing, dehydration, heat removal, and osmotic preservation. Food product development and sensory evaluation of food. Four hours lecture and three hours laboratory. Prerequisites: CHEM 206 or equivalent and HSCI 245. (5 units)

350. **Principles of Nutrition**
Physiological and chemical roles of carbohydrates, lipids, proteins, vitamins, minerals, and water in the human body. Understanding of nutrition standards and relationship between foods and nutrients. Factors affecting absorption, utilization, and the need for nutrients. Prerequisites: CHEM 207, or a one-term GOB (General, Organic, Biochemistry) course, BIOL 223 and 224, 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. (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)

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, water 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. **Global Health**
Explores the main principles of global health within the social, cultural, geographic, environmental, political, and economic contexts that determine population-level health and illness, including factors that account for variations in and patterns of health outcomes. Topics include health policies, programs, health systems, identifying and interpreting current data sources, diseases, and interventions. (4 units)

360. **Medical Care Organizations**
Analysis of the organization of health and medical care services, resources, facilities, financial aspects, and other related topics. Formerly HSCI 415. Prerequisite: HSCI 271 or consent of instructor. (4 units)

361. **Principles of Accident Prevention**
Ecological and medical aspects of accident prevention in residential, work, educational, medical, and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2 units)

364. **Drug and Alcohol Use and Abuse**
Analysis of factors influencing human use or abuse of drugs, alcohol, and other substances and their effects on the health and well-being of the individual, family, and society. (4 units)

365. **Nutrition Throughout the Life Cycle**
Nutritional needs through the life cycle. Factors that affect cultural, ethnic, and religious food preferences in individuals and groups. Prerequisite: HSCI 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: either BIOL 223 and 224 or BIOL 200, 201, and 202. (4 units)

370. **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. Formerly HSCI 470. (4 units)

374. **Basic Audiology 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 audiology. 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)

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 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. Prerequisite: HSCI 244 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. (1-2 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. 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. College-level course work in chemistry and physics is recommended. (5 units)

403. Vector-borne Disease Control
Identification and control of insect and other vectors of diseases. Discussion of major topics in vector ecology including natural and chemical control methods and their impact on health and environmental quality. Four hours lecture and three hours laboratory. Formerly HSCI 458. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (5 units)

404. Women's Health Issues
Examination of programs, policies, and services that affect the health of girls and women across the lifespan. Emphasis on social, political, economic, environmental, personal, and behavioral factors associated with women's health. (4 units)

405. Health Issues of Men
Exploration of men's health issues from an ecologic perspective, e.g., physical, mental, social, intellectual, financial, spiritual, sexual, and other related dimensions. Emphasis is on balance as well as intersections of biological sex, gender concerns, racial considerations, and other diverse factors; personal responsibility for maintaining and promoting health; self-care and access to appropriate healthcare. (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 Resources Management in Health Care
Principles of effective human resource management in the medical care setting. 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. Formerly a topic under HSCI 452. (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 HIPAA regulations. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

438. Financial Management in Health Care
Financial requirements in medical care settings, 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 HIPAA regulations. Previously offered as a topic under HSCI 452. Prerequisite: ACCT 211 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 public health concentration. (4 units)

441. Nutritional Biochemistry and Metabolism
Study of metabolic roles of macro- and micronutrients in the body using an integrated approach to explore the roles of nutrients in biochemical, physiological, and metabolic functions. Includes effects of metabolic diseases on physiological and biochemical functions of the body. Formerly HSCI 351. Prerequisites: HSCI 365 and 384, or consent of instructor. (4 units)

442. Advanced Human Nutrition
Nutritional biochemistry and relevant topics in nutrition and dietetics. Emphasis on integration, interpretation, and application of nutrition research. Formerly HSCI 383 and 447. Prerequisite: HSCI 441 or consent of instructor. (4 units)

443. Medical Nutrition Therapy I
Development of skills and knowledge necessary for nutrition and dietary intervention in disease processes. Special emphasis on interrelationships between pathophysiology of disease processes and the dietary modifications required to recover from the disease condition and/or to improve the quality of life. Formerly HSCI 368. Prerequisite: HSCI 441, 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 442 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 the development, planning, and evaluation of community programs and educational methods. Prerequisites: HSCI 273, 442, and 443, or consent of instructor. (4 units)

446. Senior Seminar in Dietetic Education
Current and future trends in dietetic education, dietetic internship programs, and application processes. Prerequisites: HSCI 225 and senior standing in the Nutrition and Food Science program. (1 unit)

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. (4 units)

452. Special Topics in Health Science and Human Ecology
Examination of selected topics of current interest in health science. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

455. Health Policy and Law
Health policy, law, and regulations and their impact on public health, including health care. Considers the role of the legal system in resolving public health and health care issues through the legislature, the courts, and administrative agencies. Formerly HSCI 355. (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 foodservice management; personnel, facilities, materials, time, and money. Prerequisites: HSCI 465 and either MGMT 302 or PSYC 302, or consent of instructor. (4 units)

468. 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. Materials fee required. Formerly HSCI 498 and 598. Prerequisite: HSCI 315, MATH 262 or 305; or consent of instructor. (4 units)

471. Health Program Planning and Implementation
Critically examines models and processes for the identification of population-based public health needs, development of programs to meet those needs, and plans for implementation of public health interventions. The course integrates several knowledge and skill areas, including research methods, epidemiology, biostatistics, proposal writing, budget planning, and project management. Includes an overview of effective public health interventions using the socio-ecologic framework (individual/behavioral, environmental/social/community, and policy) as a foundation to explore various levels of interventions. (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 468 and 471 or consent of instructor. (4 units)

473. Strategies and Methods in Health Education
Application of a wide-range of strategies and methods for promoting health in various community health education practice settings including community organizations and agencies, clinical settings, and schools. Formerly HSCI 302. (4 units)

474. Advanced Audimetry
Hearing tests and 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)

480. Health Services Administration
Introduction to management theory and practice as they apply to the management of health services programs. Emphasis is placed on the planning, analyzing, organizing, staffing, directing, and evaluation functions necessary to the management of health service organizations. Budgeting functions and processes are discussed as they relate to health services management. Formerly HSCI 490. (4 units)

489. Pre-Field Experience
Prepares students for a practical, professional-level field experience through class discussion and assignments, interaction with guest preceptors, preparing a portfolio, satisfying requirements of the field placement, and completing necessary coursework to identify and establish a field experience project. Prerequisites: senior standing; all 100- and 200-level courses completed; grade of "C" or better in all upper division courses in the major. (2 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. Field Study I (5 units)
B. Field Study II (5 units)
C. Field Study III (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. May be repeated for credit. 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. (1-5 units)

495. Field Experience
Structured practical pre-professional culminating experience of a minimum 120 hours to be completed in one ten-week quarter in an approved public health agency, community-based organization, tribal health site, or health care setting. Meant to be taken at the end of the program by senior level students. Graded credit/no credit. Prerequisites: HSCI 489; concurrent enrollment in HSCI 493; and signed consent of program advisor. (4 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: HSCI 352, health science majors with concentration in environmental health science and senior class standing or consent of advisor. (4 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. (1-4 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)

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)

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 non-acute 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. Formerly a topic under HSCI 452. (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 teacher's 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. Health Aspects of Death and Dying
Investigation into how the realities of death and loss influence the quality of a person's life and personal health status. The focus is on assisting students and professionals to develop the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. (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 358 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)

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. (1-4 units)
HISTORY

Department of History
Social and Behavioral Sciences Building, Room 327F
(909) 537-5524  history.csbs.csus.edu

Bachelor of Arts
- History - Track A (Teaching Track)
- History - Track B
- History - Track C (Public and Oral History Option)

Teaching Credential Program
- Single Subject
- History

FACULTY: Elliot Barkan (Emeritus), Robert Blackey, Lanny Fields (Emeritus), Joyce Hanson (Chair), Tiffany Jones, Thomas Long, Cherstin Lyon, Ward McAfee (Emeritus), Jeremy Murray, Michael Persell (Emeritus), Tim Pytell, Cheryl Riggs, Richard Samuelson, Pedro Santoni, Kent Schofield (Emeritus), 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. To meet the remainder of the requirements for Track C, students are required to choose from a variety of professional courses that prepare individuals for careers in a range of fields such as museums, archives, historic preservation, oral history, historic homes and parks.

Currently, the department consists of faculty specializing in the areas of American, European, African, Asian, Middle Eastern and Latin American history.

B.A. IN HISTORY - TRACK A (Teaching Track)
Requirements (103 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 (37 units, 17 of which also count toward meeting General education requirements):

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)
   - HIST 142. World Civilizations II, the Civilizations of the East and West (4)

2. HIST 144. World Civilizations III, the Expansion of Europe (4)

3. HIST 200. United States History to 1877 (4)
4. HIST 201. United States History, 1877 to the Present (4)
5. ECON 200. Principles of Microeconomics (4)
7. GEOG 100. Introduction to Human Geography (4)
8. GEOG 103. Physical Geography (5)

Upper-division History requirements (66 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 370. History of California (4)
5. HIST 594. Research Seminar in History (4)

Sixteen units of upper-division coursework in history.

1. Four units chosen from:
   - HIST 383. Classical Islamic Civilization (4)
   - HIST 384. Modern Middle East (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 433. Modern Chinese History in Fiction and Film (4)
   - HIST 435. World War II in the Pacific (4)
   - HIST 440. Modern Japanese History (4)

3. Four units chosen from:
   - HIST 388. Modern Japanese History (4)
   - HIST 389. Latin American History Through Film (4)
   - HIST 469. Colonial Latin America (4)
   - HIST 470. Latin American History (4)

Four units of upper-division coursework in history.

1. HIST 390. History of Modern Mexico (4)
2. HIST 466. Foreign Relations of Latin America (4)
3. HIST 467. Latin American History Through Film (4)
4. HIST 468. Colonial Latin America (4)
5. HIST 470. Latin American History (4)
6. Four units of upper-division coursework in history.
   - HIST 341. African-American History, 1865-Present (4)
   - HIST 342. American Indian History (4)
   - HIST 344. Women in U.S. History, 1620-1865 (4)
   - HIST 345. Women in U.S. History, 1865-Present (4)
HIST 346. Women in the Black Freedom Movement (4)
HIST 371. California Indian History (4)
HIST 391. Chicano History (4)
HIST 541. U.S. Citizenship and Law (4)
HIST 565. Immigration and Ethnic American History (4)
8. Twelve units of upper-division coursework in History:
   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 355. 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, 1945-1980 (4)
   HIST 540. Constitutional History of the United States (4)
9. HIST 550. Senior Assessment (2)
10. Twelve units of electives must be chosen from any upper-division history courses numbered 300-597 (provided that none have been used to meet previously stated requirements for the major.)

**B.A. IN HISTORY - TRACK B**

**Requirements (70 units)**

**Total units required for graduation: 180**

**Requirements for the B.A. in History - Track B:**

1. Four units chosen from:
   - ANTH 140. World Civilizations I, the Rise of Civilization (4)
   - HIST 140. World Civilizations I, the Rise of Civilization (4)
2. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
3. HIST 144. World Civilizations III, the Expansion of Europe (4)
4. HIST 200. United States History to 1877 (4)
5. HIST 201. United States History, 1877 to the Present (4)
6. HIST 494. Proseminar in History (4)
7. HIST 550. Senior Assessment (2)
8. HIST 594. Research Seminar in History (4)
9. Forty units of other upper-division coursework in history selected in consultation with an advisor, 24 of which must be chosen from one of the listed geographical areas as a field of concentration; and the minimum number of units from each area outside the chosen field of concentration as shown below:

A minimum of four units chosen from:

**African 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 388. The Rise, Decline and Legacy of Apartheid Africa (4)
   - HIST 389. Images of Africa (4)
   - HIST 450. History of Southern Africa (4)
   - HIST 451. The History of Health and Medicine in Africa (4)

A minimum of four units chosen from:

**Asian History/Middle East**
   - HIST 383. Classical Islamic Civilization (4)
   - HIST 384. Modern Middle East (4)
   - HIST 426. Ancient and Early Imperial China (4)
   - HIST 428. Medieval China (4)
   - HIST 429. Modern China I, 1664-1911 (4)
   - HIST 431. Modern China II, 1911-1949 (4)
   - HIST 432. Modern China III, 1949-present (4)
   - HIST 433. Modern Chinese History in Fiction and Film (4)
   - HIST 435. World War II in the Pacific (4)
   - HIST 440. Modern Japanese History (4)
   - HIST 485. Arab-Israeli Conflict (4)
   - HIST 486. Modern Iran (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)
   - HIST 491. Nationalism and Conflict in the Middle East (4)

A minimum of four units chosen from:

**European History**
   - HIST 305. Ancient and Medieval Europe (4)
   - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
   - HIST 307. Modern Europe, 1815 to the Present (4)
   - HIST 320. History of Ancient Greece (4)
   - HIST 321. History of Rome (4)
   - HIST 400. Early Medieval Europe (4)
   - HIST 401. Late Medieval Europe (4)
   - HIST 402. Renaissance and Reformation (4)
   - HIST 403. The Age of Absolutism and Enlightenment (4)
   - HIST 405. Nazi Germany and the Holocaust (4)
   - HIST 406. European Intellectual History (4)
   - HIST 409. Twentieth Century Europe (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)

A minimum of four units chosen from:

**Latin American History**
   - HIST 390. History of Modern Mexico (4)
   - HIST 465. Modern Central America (4)
   - HIST 466. Foreign Relations of Latin America (4)
   - HIST 467. Latin American History Through Film (4)
   - HIST 469. Colonial Latin America (4)
   - HIST 470. Modern Latin America (4)

A minimum of four units chosen from:

**United States History**
   - HIST 341. African-American History, 1865-Present (4)
   - HIST 342. American Indian History (4)
   - HIST 344. Women in U.S. History, 1620-1865 (4)
   - HIST 345. Women in U.S. History, 1865-Present (4)
   - HIST 346. Women in the Black Freedom Movement (4)
   - HIST 350. The American Colonies, 1607-1783 (4)
   - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
   - HIST 354. Civil War and Reconstruction (4)
   - HIST 356. The United States, 1877-1917 (4)
   - HIST 357. The United States, 1917-1945 (4)
   - HIST 358. United States in World War II (4)
   - HIST 359. The United States, 1945-1980 (4)
   - HIST 360. American History Through Film (4)
   - HIST 368. The United States, 1960s (4)
   - HIST 371. California Indian History (4)
   - HIST 391. Chicano History (4)
   - HIST 422. 20th Century Americans (4)
   - HIST 540. Constitutional History of the United States (4)
   - HIST 541. U.S. Citizenship and Law (4)
   - HIST 556. Foreign Relations of the United States (4)
   - HIST 560. History of the American West (4)
   - HIST 565. Immigration and Ethnic American History (4)

Up to 12 units from supporting disciplines outside the History Department may be included with approval of the advisor or
B.A. IN HISTORY - TRACK C (Public and Oral History Option)

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:
   - 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 to 1877 (4)
5. HIST 201. United States, 1877 to the Present (4)
6. HIST 323. Introduction to Public History (4)
7. HIST 324. Introduction to Oral History (4)
8. HIST 550. Senior Assessment (2)
9. HIST 594. Research Seminar in History (4)
10. Twelve units of professional preparation electives selected from:
    - HIST 316. Archival Practices (4)
    - HIST 318. Museum and Archival Management (4)
    - HIST 326. Historic Preservation (4)
    - HIST 329. Topics in Public History (4)
    - HIST 330. Topics in Oral History (4)
    - HIST 376. Exhibit Design (4)
    - HIST 377. Historical Documentaries (4)
    - May choose only one of the following two courses:
      - ANTH 312. Historical Archaeology (4)
      - HIST 312. Historical Archaeology (4)
    - May choose only one of the following two courses:
      - ANTH 375. Museum Methods (4)
      - HIST 375. Museum Methods (4)

11. Four units chosen from:
    - HIST 575. Internship in History (4) with advisory approval, may be repeated once for additional elective units

12. Four units chosen from:
    - African 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 388. The Rise, Decline and Legacy of Apartheid Africa (4)
      - HIST 389. Images of Africa (4)
      - HIST 450. History of Southern Africa (4)
      - HIST 451. The History of Health and Medicine in Africa (4)

13. Four units chosen from:
    - Asian History/Middle East History
      - HIST 383. Classical Islamic Civilization (4)
      - HIST 384. Modern Middle East (4)
      - HIST 426. Ancient and Early Imperial China (4)
      - HIST 428. Medieval China (4)
      - HIST 429. Modern China I, 1664-1911 (4)
      - HIST 431. Modern China II, 1911-1949 (4)
      - HIST 432. Modern China III, 1949-present (4)
      - HIST 433. Modern Chinese History in Fiction and Film (4)
      - HIST 435. World War II in the Pacific (4)
      - HIST 440. Modern Japanese History (4)
      - HIST 485. Arab-Israeli Conflict (4)
      - HIST 486. Modern Iran (4)
      - HIST 487. Topics in Modern Middle Eastern History (4)
      - HIST 491. Nationalism and Conflict in the Middle East (4)
      - HIST 493. The Age of Absolutism and Enlightenment (4)
      - HIST 495. Nazi Germany and the Holocaust (4)
      - HIST 496. European Intellectual History (4)
      - HIST 499. Twentieth Century Europe (4)
      - HIST 500. Hitler's Europe (4)
      - HIST 504. History of Christianity I (4)
      - HIST 508. History of Christianity II (4)
      - HIST 501. Tudor and Stuart England (4)
      - HIST 502. Britain, 1868-1901 (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)

14. Four units chosen from:
    - European History
      - HIST 305. Ancient and Medieval Europe (4)
      - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
      - HIST 307. Modern Europe, 1815 to the Present (4)
      - HIST 320. History of Ancient Greece (4)
      - HIST 321. History of Rome (4)
      - HIST 400. Early Medieval Europe (4)
      - HIST 401. Late Medieval Europe (4)
      - HIST 402. Renaissance and Reformation (4)
      - HIST 403. The Age of Absolutism and Enlightenment (4)
      - HIST 405. Nazi Germany and the Holocaust (4)
      - HIST 406. European Intellectual History (4)
      - HIST 409. Twentieth Century Europe (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, 1868-1901 (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)

15. Four units chosen from:
    - Latin American History
      - HIST 390. History of Modern Mexico (4)
      - HIST 465. Modern Central America (4)
      - HIST 466. Foreign Relations of Latin America (4)
      - HIST 467. Latin American History Through Film (4)
      - HIST 469. Colonial Latin America (4)
      - HIST 470. Modern Latin America (4)

16. Four units chosen from:
    - United States History
      - HIST 341. African-American History, 1865-Present (4)
      - HIST 342. American Indian History (4)
      - HIST 344. Women in U.S. History, 1620-1865 (4)
      - HIST 345. Women in U.S. History, 1865-Present (4)
      - HIST 346. Women in the Black Freedom Movement (4)
      - HIST 350. The American Colonies, 1607-1783 (4)
      - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
      - HIST 354. Civil War and Reconstruction (4)
      - HIST 356. The United States, 1877-1917 (4)
      - HIST 357. The United States, 1917-1945 (4)
      - HIST 358. United States in World War II (4)
      - HIST 359. The United States, 1945-1980 (4)
      - HIST 360. American History Through Film (4)
      - HIST 368. The United States, 1960s (4)
      - HIST 371. California Indian History (4)
      - HIST 391. Chicano History (4)
      - HIST 422. 20th Century Americans (4)
      - HIST 540. Constitutional History of the United States (4)
      - HIST 541. U.S. Citizenship and Law (4)
      - HIST 556. Foreign Relations of the United States (4)
      - HIST 560. History of the American West (4)
      - HIST 565. Immigration and Ethnic American History (4)

17. Twelve units of upper-division history course work (300-599). Eight units from outside of history may be chosen with advisory approval.
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 167 or contact the Credentials Office, CE-102.

MINOR IN HISTORY

Requirements (32 units)

Requirements for a minor in History:
Requirements for a minor in history include 32 units, of which 24 units must be upper-division, to include 12 units as follows:

1. United States history

Four units chosen from:
May choose only one of the following two courses:
- ANTH 312. Historical Archaeology (4)
- HIST 312. Historical Archaeology (4)
- HIST 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 346. Women in the Black Freedom Movement (4)
- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)
- HIST 354. Civil War and Reconstruction (4)
- HIST 356. The United States, 1877-1917 (4)
- HIST 357. The United States, 1917-1945 (4)
- HIST 358. United States in World War II (4)
- HIST 359. The United States, 1945-1980 (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 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. Immigration and Ethnic American History (4)

2. European history

Four units chosen from:
- HIST 305. Ancient and Medieval Europe (4)
- HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
- HIST 307. Modern Europe, 1815 to the Present (4)
- HIST 320. History of Ancient Greece (4)
- HIST 321. History of Rome (4)
- HIST 400. Early Medieval Europe (4)
- HIST 401. Late Medieval Europe (4)
- HIST 402. Renaissance and Reformation (4)
- HIST 403. The Age of Absolutism and Enlightenment (4)
- HIST 405. Nazi Germany and the Holocaust (4)
- HIST 406. European Intellectual History (4)
- HIST 409. Twentieth Century 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)

3. Nonwestern history

Four units chosen from:
- 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 388. The Rise, Decline and Legacy of Apartheid Africa (4)
- HIST 390. History of Modern Mexico (4)
- HIST 426. Ancient and Early Imperial China (4)
- HIST 428. Medieval China (4)
- HIST 431. Modern China II, 1911-1949 (4)
- HIST 432. Modern China III, 1949-present (4)
- HIST 435. World War II in the Pacific (4)
- HIST 440. Modern Japanese History (4)
- HIST 450. History of Southern Africa (4)
- HIST 451. The History of Health and Medicine in 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)

4. Electives

Twenty units of history courses, of which 12 units must be upper-division.

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

Phi Alpha Theta is an international history honor society. Students who have completed at least 12 units of history (3 courses) at CSUSB, and who have a minimum overall G.P.A. of 3.0 and a minimum G.P.A. in History of 3.1 may join the university's chapter of Phi Alpha Theta. Membership is not limited to History majors.

COURSE OFFERINGS IN HISTORY (HIST)

Lower Division

140. World Civilizations I, the Rise of Civilization
Activities and achievements of humans through the rise and diffusion of civilizations in Eurasia, Africa, and the Americas to about the dawn of the Christian era. (Also offered as ANTH 140. Students may not receive credit for both.) (GE=D3) (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 American 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) (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) (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) (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) (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)

316. Archival Practices
Applied approach to archival methods, the accessioning, de-accessioning, cataloging, calendar composition, storage of objects and archival materials, loan procedures, policies and legal issues. Field trips and projects required. Also offered as ANTH 316. Students may not receive credit for both. Formerly HIST 322. (4 units)

318. Museum and Archive Management
General overview of the management of museums and archival collections. Field trips and projects required. Formerly a topic under HIST 392. (Also offered as ANTH 318. Students may not receive credit for both.) Formerly HIST 327. Prerequisite: HIST 323 or consent of instructor. (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. Introduction to Public History
Introduction to 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. Introduction to Oral History
Introduction to 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)

326. Historic Preservation
Examination of the methods, theories, and issues in historic preservation. Field trips and projects are required. Prerequisites: HIST 323 and 324, 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 324 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 323 and 324, or consent of instructor. (4 units)

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)

342. American Indian History
Social, cultural, political, and economic history of American Indians. Special emphasis placed on American Indian agency, sovereignty and diversity. (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)

349. Early American Biography
Early American history through the medium of biography and related primary source documents. (4 units)

350. The American Colonies, 1607-1783
The thirteen colonies from European origins to the attainment of independence. (4 units)

351. The Evolution of American Democracy, 1783-1840
Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. (4 units)

354. Civil War and Reconstruction
Background and causes of the Civil War and the problems of Reconstruction. (4 units)

356. The United States, 1877-1917
Transformation of the nation between the end of Reconstruction and entrance into World War I. (4 units)

357. The United States, 1917-1945
Principal developments in American life from World War I to the end of World War II. (4 units)

358. United States in World War II
The United States homefront during World War II, focusing on social, economic and constitutional issues. (4 units)

359. The United States, 1945-1980
Major changes in the United States between the end of World War II and 1980. (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)

368. The United States, 1960s
Examines political, social, and cultural changes in the United States during the turbulent decade of the 1960s. (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)

371. California Indian History
Social, cultural, political, and economic history of California Indians. Special emphasis placed on California Indian agency, sovereignty and diversity. (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)

377. Historical Documentaries
Examination of the development and role of historical documentaries in American society, focusing on the role of the historian in the research and production of the documentaries as well as a critical analysis of the individual productions and their historical, material and intellectual content. (4 units)

379. The History of Madness
Concepts of "madness" from an historical, global and comparative perspective from the eighteenth century to the present day, including the social construction of madness and views of mad people themselves. (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)

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)

388. The Rise, Decline and Legacy of Apartheid South Africa
Development of racial segregation and apartheid policies in twentieth century South Africa. Explores the causes and consequences of the rise and collapse of apartheid. Formerly a topic under HIST 395. (4 units)
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389. Images of Africa
Examination of cultural construction of Africa through various forms of media created by Africans and non-Africans from the 17th Century to the present. Formerly a topic under HIST 395. (4 units)

390. History of Modern Mexico
Survey of Mexican history from the nineteenth century wars of independence to the present. (4 units)

391. Chicano History
Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. (4 units)

395. Topics in History
Examination of topics of interest in history. May be repeated for credit as topics change. (4 units)

396. Topics in History
Examination of topics of interest in history. May be repeated for credit as topics change. (2 units)

399. Community Service Project
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for community service project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: a project proposal must be approved by the department in advance of enrollment. (1-2 units)

400. Early Medieval Europe
Survey of the political, economic, and social transformation of Europe from the fall of Rome through the eleventh century. (4 units)

401. Late Medieval Europe
Survey of the political, economic, and social transformation of Europe during the high Middle Ages, from the eleventh century to the fourteenth century. (4 units)

402. Renaissance and Reformation
Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. (4 units)

403. The Age of Absolutism and Enlightenment
The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. (4 units)

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 fascism 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)

422. 20th Century Americans
Biographical focus on key American leaders who affected the course of 20th century American history. (4 units)

426. Ancient and Early Imperial China
Political, social, economic, and cultural developments of China from earliest times to the founding of the Sui Dynasty (589 C.E.). (4 units)

428. Medieval China
Political, social, economic, and cultural developments in China from the founding of the Sui Dynasty (589 C.E.) through the fall of the Ming Dynasty (1644). (4 units)

429. Modern China I, 1644-1911
Political, social, economic, and cultural developments in China in the Qing Dynasty (1644-1911). (4 units)

431. Modern China II, 1911-1949
Political, social, economic, and cultural developments in China from the fall of the Qing Dynasty (1911) through the founding of the People's Republic of China (1949) Formerly HIST 430. (4 units)

432. Modern China III, 1949-present
Political, social, economic, and cultural developments in China from 1949 to the present. (4 units)

433. Modern Chinese History in Fiction and Film
Retrospective and contemporary film and fiction are used as a window into the political and cultural developments of China in the twentieth century. (4 units)

435. World War II in the Pacific
Major themes surrounding World War II in the Pacific, its context and impact (1931-1945) Formerly HIST 434. (4 units)

440. Modern Japanese History
Political, social, economic, and cultural developments in Japan from the late Tokugawa era and the Meiji Restoration (1868) through the present. (4 units)

450. History of Southern Africa
History of the region of Southern Africa, including early African settlement, including early African settlement, colonization, apartheid, independence and contemporary developments. (4 units)

451. The History of Health and Medicine in Africa
Health and disease in Africa from the pre-colonial period to present day, the connection between science, medicine, colonialism, the construction of difference, and responses to western bio-medicine. (4 units)

465. Modern Central America
Survey of the political, economic, and social history of the five major Central American nations-Nicaragua, El Salvador, Guatemala, Honduras, and Costa Rica-from their independence in the early 19th century to the present. (4 units)

466. Foreign Relations of Latin America
Survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations. (4 units)

467. Latin American History Through Film
Cultural, social, political and economic issues that have shaped Latin America through the study and analysis of feature films and associated readings. (4 units)

469. Colonial Latin America
Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. (4 units)
470. Modern Latin America
Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. (4 units)

480. History of Christianity I
Historical development of early Christianity from its origins to the fall of Rome. (4 units)

481. History of Christianity II
Historical development of Christianity from the fall of Rome to the eve of the Protestant Reformation. (4 units)

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. Prerequisite: HIST 383 or consent of instructor. (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. Prerequisite: 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. Prerequisites: 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)

510. Modern France
History of French culture, society, and politics from the fall of Napoleon to the present. (4 units)

520. Tsarist Russia
Principal political, social, economic, and cultural developments in Russia from the Kievan state to the Soviet state, c. 900-1917. (4 units)

521. The Soviet Union
Principal political, social, economic, and cultural developments in the Soviet Union since 1917. (4 units)

535. Studies in European National History
Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. (4 units)

540. Constitutional History of the United States
American constitutional development from English and European origins to the present day. This course meets the state code requirement in U.S. history and U.S. Constitution. Prerequisite: HIST 200 or 201, or PSCI 410 or consent of instructor. (4 units)

541. U.S. Citizenship and the Law
History of citizenship in the United States from colonial period to the present including global and comparative perspectives. Formerly a topic under HIST 395. (4 units)

550. Senior Assessment
Assessment of the student’s academic progress through preparation and submission of a portfolio of completed course work. Composition of a reflective essay providing evidence of acquired skills. Graded credit/no credit. Prerequisite: senior standing. (2 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)

565. Immigration and Ethnic American History
Comparison of the major ethnic groups in American history, and processes of immigration, migration, and ethnic identity formation. (4 units)

575. Internship in History
Supervised work and study in work situations involving historical skills. May be repeated once for credit. Graded credit/no credit. Prerequisites: major in history and consent of the internship coordinator or department chair. (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. Prerequisite: HIST 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. (2-4 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 501.
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 director for more information.

B.A. IN HUMAN DEVELOPMENT - CHILD DEVELOPMENT TRACK

Requirements (95 units)

Total units required for graduation: 180

Requirements to enter the B.A. in Human Development - Child Development Track:

1. Completion of the following:
   - General Education Basic Skills in English (A1)
   - One of the following:
     - MATH 110. College Algebra
     - MATH 115. The Ideas of Mathematics
     - MATH 120. Pre-Calculus Mathematics
     - MATH 192. Methods of Calculus
     - MATH 211. Basic Concept of Calculus
   - One of the following:
     - HD 240. Introduction to Child Development
     - PSYC 201. Developmental Psychology
     - PSYC 210. Psychological Statistics or its equivalent
   - One of the following:
     - HD 270. Infant and Toddler Development (4)
   - Two units 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)
   - Two units chosen from:
     - Group A
       - HD 271. Group Education and Care of Infants and Toddlers (4)
       - HD 272. Curriculum and Programs for Infants and Toddlers (4)
     - Group B
       - HD 281. Guidance of Young Children (4)
       - HD 282. Early Childhood Curriculum and Programs (4)
2. Students may earn no grade lower than a "C" (2.0) in each of these courses.

The Office of Records, Registration and Evaluations will change the student's status once the above requirements have been met. Discrepancies should be reported to the Office of Records, Registration and Evaluations

Requirements for the B.A. in Human Development - Child Development Track:

Lower-division requirements (40 units)

1. BIOL 100. Topics in Biology (5)
2. HD 240. Introduction to Child Development (4)
3. Two units 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)
4. HD 270. Infants and Toddler Development (4)
5. Choose either A or B:

   **Group A**
   - HD 271. Group Education and Care of Infants and Toddlers (4)
   - HD 272. Curriculum and Programs for Infants and Toddlers (4)

   **Group B**
   - HD 281. Guidance of Young Children (4)
   - HD 282. Early Childhood Curriculum and Programs (4)
Since this program contains a variety of choices, students should seek advisement as early as possible;
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)

2. Philosophy (G.E.)
Four units chosen from:
HON 104B.* Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)
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 103. College Arabic III (4)
ARAB 201. Intermediate Arabic I (4)
ARAB 202. Intermediate Arabic II (4)
ARAB 203. Intermediate Arabic III (4)
ARAB 214. Conversation in Arabic (4)
ARAB 290. Arabic Literature in Translation (4)
ASL 103. American Sign Language III (4)
ASL 201. American Sign Language IV (4)
ASL 202. American Sign Language V (4)
ASL 203. American Sign Language VI (4)
CHIN 103. College Chinese III (4)
CHIN 201. Second Year College Chinese I (4)
CHIN 202. Second Year College Chinese II (4)
CHIN 203. Second Year College Chinese III (4)
CHIN 290. Mandarin Literature in Translation (4)
FLAN 103. Language Study III (4)
FREN 103. College French III (4)
FREN 200. Culture and Communication (4)
FREN 201. Culture and Communication II (4)
FREN 202. Culture and Communication III (4)
FREN 290. French Literature in English (4)
GER 103. College German III (4)
GER 212. Composition (4)
GER 214. Conversation (4)
GER 216. Introduction to Literary Texts (4)
GER 290. German Literature in English (4)
JAPN 103. College Japanese III (4)
JAPN 201. Intermediate Japanese I (4)
JAPN 202. Intermediate Japanese II (4)
JAPN 203. Intermediate Japanese III (4)
JAPN 290. Japanese Literature in Translation (4)
KOR 103. College Korean III (4)
KOR 201. Second Year College Korean I (4)
KOR 202. Second Year College Korean II (4)
KOR 203. Second Year College Korean III (4)
SPAN 103. College Spanish III (4)
SPAN 201. Intermediate Spanish I (4)
SPAN 202. Intermediate Spanish II (4)
SPAN 203. Intermediate Spanish III (4)
SPAN 214. Conversation
SPAN 290. Spanish and Latin American Literature in English (4)

4. Integrative Capstone in the Humanities (G.E.)
Four units chosen from:
HUM 319. Myth, Metaphor and Symbol (4)
HUM 325. Perspectives on Gender (meets the requirement in category G1) (4)
HUM 328. Asian Cultural Traditions (meets the requirement in category G1) (4)
HUM 330. Arts and Ideas (4)
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 370. African Heritage in the Arts (meets the requirement in category G1) (4)
HUM 375. The World of Islam (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)
1. Four units in the arts (G.E.) chosen from:
ART 200. Studies in Art (4)
MUS 180. Studies in Music (4)
TA 260. Introduction to Theatre (4)

2. Visual Arts Activity
Three units chosen from:
ART 385. Art in the Classroom (3)
ART 400. Teaching Art in the Elementary Classroom (4)

3. Music Activity
MUS 370. Music for Elementary Classroom Teachers (3)

4. Theatre Activity
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)
1. Ideas of Mathematics (G.E.)
Four units chosen from:
MATH 110. College Algebra (4)
MATH 115. The Ideas of Mathematics (4)
MATH 120. Pre-Calculus Mathematics (4)
MATH 192. Methods of Calculus (4)
MATH 211. Basic Concepts of Calculus (4)

2. Fundamental Concepts of Mathematics for Educators (12 units)
MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)
MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)

3. Life Science (G.E.)
BIOL 100. Topics in Biology (5)

4. Physical Science (10 units) (G.E.)
CHEM 100. Chemistry in the Modern World (5)
PHYS 100. Physics in the Modern World (5)

5. Earth and Space Science
Five units chosen from:
ASTR 311. A Cosmic Perspective of Earth (5)
GEOG 311. The Dynamic Earth (5)
GEOL 309. Earth: The Blue Planet (5)

6. Technology (G.E.)
CSE 129. Science, Computing and Society (2)
### E. Social and Behavioral Sciences Breadth Area (28 units)

1. **American Civilization (G.E.)**
   - Four units chosen from:
     - HIST 146. American Civilization (4)
     - HIST 200. United States History to 1877 (4)
     - HIST 201. United States History, 1877 to the Present (4)

2. **American Government (G.E.)**
   - PSCI 203. American Government (4)

3. **World Civilizations 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)

4. **World Civilizations II (G.E.)**
   - HIST 142. World Civilizations II, the Civilizations of the East and West (4)

5. **California History**
   - HIST 270. History of California (4)

6. **Geography**
   - GEOG 300. Geography in the Elementary and Middle School Classroom (4)

7. **Integrative Capstone in the Social and Behavioral Sciences (G.E.)**
   - Four units chosen from:
     - SSCI 300. Nonwestern World (4)
     - SSCI 304. Contemporary Latin America (4)
     - SSCI 315. Cultural Adaptation: The Quest for Survival (4)
     - SSCI 316. Race and Racism (meets the requirement in category G1) (4)
     - SSCI 320. Understanding Capitalism (4)
     - SSCI 321. Urbanization and the Urban Environment (4)
     - SSCI 325. Perspectives on Gender (meets the requirement in category G1) (4)
     - SSCI 345. Religious Expression in America (4)
     - SSCI 350. Roots of Modern Racism in America (4) (meets the requirement in Category G1)

**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

### F. Lifelong Understanding, Physical Education and Health (10 units)

1. **Physical Education (G.E.)**
   - Two units chosen from:
     - KINE 101. Individual and Dual Activities (2)
     - KINE 114. Physical Fitness and Conditioning Activities (2)
     - KINE 120. Combative and Martial Arts Activities (2)
     - KINE 121. Team Activities (2)
     - KINE 137. Aquatic Activities (2)
     - KINE 147. A Fitness Odyssey (2)
     - KINE 149. Independent Activity Project (2)
     - KINE 150. Dance Activities (2)

2. **Physical Fitness (G.E.)**
   - KINE 205. Foundations for Lifetime Fitness and Wellness (2)

3. **Movement Skills**
   - Four units chosen from:
     - DAN 481. Creative Dance in the Classroom (4)
     - KINE 352. Movement for Children (4)

4. **Health**
   - HSCI 100. Concepts in Health (2)

### G. Multicultural/Gender Category (G.E.)

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 B4 or E7.**
   - HUM 325. Perspectives on Gender (4)
   - HUM 328. Asian Cultural Traditions (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)

2. **Upper-division general education elective courses that satisfy the 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)
   - ECON 352. Political Economy of Poverty and Discrimination (4)
   - ENG 314. American Indian Literature (4)
   - HUM 460. Cultural Studies (4)
   - MUS 308. Women in Music (4)
   - MUS 309. Jazz History in America and African-American Culture (4)
   - MUS 350. Music of World Cultures (4)
   - PA 305. Organizations in Multicultural and Diverse Societies (4)
   - PHIL 364. Philosophy of Race and Gender (4)
   - PHIL 367. Gender and Philosophy (4)
   - TA 462. African-American Theatre and Drama (4)
   - TA 463. Asian Theatre (4)

### H. Child Development Core (47 units)

1. **Child Development (6 units)**
   - Students must choose 6 units from A or B below:
     - A. HD 240. Introduction to Child Development (4)

     **Note:** Students must maintain a "C-" or better in this course.

     - Two units to be taken concurrently with or after HD 240 chosen from:
       - HD 246. Observation and Methods in Child Development: Middle Childhood (2)
       - HD 247. Observation and Methods in Child Development: Adolescence (2)

     - B. EELB 301. Growth and Development in Socio-Educational Contexts (6)

2. **Exceptional Child**
   - PSYC 350. Development of Exceptional Children (4)

3. **Guidance of Young Children**
   - HD 281. Guidance of Young Children (4)

4. **Early Childhood Curriculum and Programs**
   - HD 282. Early Childhood Curriculum and Programs (4)

5. **Interactions with Young Children: Laboratory**
   - HD 291. Interactions with Young Children: Laboratory (2)

6. **Curriculum and Programs: Laboratory**
   - HD 292. Curriculum and Programs: Laboratory (2)

7. **Theories of Play**
   - HD 304. Theories of Play (4)

8. **Child Assessment**
   - HD 324. Developmental Psychobiology (4)

9. **Four units chosen from:**
   - PSYC 303. Parenting and Family Relations (4)
   - SOC 340. Sociology of the Family (4)
   - PSYC 320. Psychology of Middle Childhood (4)
   - PSYC 358. Cognitive Development (4)
Lifespan Track:

Requirements (90 units)

Total units required for graduation: 180

Requirements to enter the B.A. in Human Development - Lifespan Track:

1. Completion of the following:
   • General Education Basic Skills in English (A1)
     Four units chosen from:
     - ENG 104A. Stretch Composition III
     - ENG 104B. Stretch Composition III for Multilingual Students
     - ENG 106. Accelerated Stretch Composition II
     - ENG 107. Advanced First-Year Composition
   • General Education Basic Skills in Mathematics (A3)
     One of the following:
     - MATH 110. College Algebra
     - MATH 115. The Ideas of Mathematics
     - MATH 120. Pre-Calculus Mathematics
     - MATH 192. Methods of Calculus
     - MATH 211. Basic Concept of Calculus
   • One of the following:
     - HD 240. Introduction to Child Development
     - PSYC 201. Developmental Psychology
     - PSYC 210. Psychological Statistics or its equivalent

2. Students may earn no grade lower than a "C" (2.0) in each of these courses.

The Office of Records, Registration and Evaluations will change the student's status once the above requirements have been met. Discrepancies should be reported to the Office of Records, Registration and Evaluations.

Requirements for the B.A. in Human Development - Lifespan Track:

1. BIOL 100. Topics in Biology (5)
2. PSYC 100. Introduction to Psychology (4)
3. PSYC 201. Developmental Psychology (4)
4. Four units chosen from:
   - ANTH 325. Human Biological Variance and the Concept of Race (4)
   - ANTH 327. Primate Evolution and Ecology (4)
   - HD 205. Diversity in Child Development (4)
   - HD 215. School, Family and Community (4)
   - HD 302. History of Childhood (4)
   - HD 520. Intergenerational Aspects of Human Development (4)
   - SOC 339. Socialization (4)
5. ANTH 331. Anthropology of Human Development (4)
6. HD 324. Developmental Psychobiology (4)
7. HD 480. Advanced Human Development (4)
8. HD 575. Internship (4)
9. Four units chosen from:
   - PSYC 303. Parenting and Family Relations (4)
   - SOC 340. Sociology of the Family (4)
10. PSYC 358. Cognitive Development (4)
11. PSYC 384. Personality and Social Development (4)
12. Developmental Periods (12 units)

A minimum of 12 units from A, B, and C:
A. Four units chosen from:
   - HD 270. Infant and Toddler Development (4)
   - HD 280. Early Childhood Development (4)
B. Four units chosen from:
   - PSYC 320. Psychology of Middle Childhood (4)
   - PSYC 328. Psychology of Adolescent Development (4)
C. Four units chosen from:
   - PSYC 329. Psychology of Adulthood and Aging (4)
   - SOC 330. Social Gerontology (4)

13. Applications (12 units)
A minimum of 12 units chosen from A, B, and C:
A. Four units chosen from:
   - HD 271. Group Education and Care of Infants and Toddlers (4)
   - HD 281. Guidance of Young Children (4)
   - HD 304. Theories of Play (4)
B. Four units chosen from:
   - PSYC 350. Development of Exceptional Children (4)
   - PSYC 391. Psychopathology of Childhood (4)
C. Four units chosen from:
   - HD 372. Psychology of Death and Dying (4)
   - HD 540. Work, Retirement and Leisure (4)
   - PSYC 387. Community Psychology (4)
   - PSYC 390. Abnormal Psychology (4)
   - SOC 330. Social Gerontology (4) if not previously taken above

14. Testing and Assessment (6 units)
A. Two units 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)
B. A minimum of four units chosen from:
   - HD 400. Child Assessment (5)
   - HD 460. Adult Assessment (4)
   - PSYC 377. Tests and Measurements (4)

15. Statistics/Methodology (15 units)
   - HD 310. Applied Research Methodology (4)
   - PSYC 210. Psychological Statistics (5)
   - PSYC 311. Introduction to Experimental Psychology (6)

DEPARTMENTAL HONORS

Students majoring in human development are eligible to receive honors in human development at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.25 or better;
4. Completion of the three-quarter Honors Program with a grade of "B" (3.0) or better each quarter:
   - HD 597. Honors Seminar
   - HD 598A. Honors Project I
   - HD 598B. Honors Project II

Students interested in this recognition must file a formal application for enrollment in the Human Development Honors Program at the end of their junior year.

COURSE OFFERINGS IN HUMAN DEVELOPMENT (HD)

Lower Division

205. Diversity in Child Development

Theories of cultural and ethnic diversity and their applications to child development. Emphasis will be given to the impact of diversity in professional settings involving children. Formerly HD 305. Prerequisite: HD 240, PSYC 201 or 240. (4 units)
215. Child, Family, and Community
An examination of children in a societal context focusing on the inter-
relationship between school, family, and community. Emphasis will
be given to historical and cultural factors which influence the family
and children's subsequent socialization. Prerequisite: HD 240, PSYC
201 or 240. (4 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 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 de-
velopmental 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 de-
velopmental 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 de-
velopmental principles, theories and current research. Prerequisite or
corequisite: HD 240. (2 units)

270. Infant and Toddler Development
Prenatal, neonatal, infant and toddler development through age two.
Formerly PSYC 270. Prerequisites: PSYC 100 and current TB test.
(4 units)

271. Group Education and Care of Infants and
Toddlers
Issues related to group care of infants and toddlers, with an emphasis
on relationships and appropriate interactions between infants/toddlers
and their caregivers. Health, safety, nutrition, family-caregiver rela-
tionships, and components of physical space will also be addressed.
Prerequisite: HD 270. (4 units)

272. Curriculum and Programs for Infants and
Toddlers
Methods, materials and activities in group care settings for infants
and toddlers. Prerequisites: HD 270, 271 and 291. (4 units)

280. Early Childhood Development
Physical, social, emotional, and intellectual development of the young
child from ages two to eight. Prerequisites: PSYC 100 and current TB
test. (4 units)

281. Guidance of Young Children
Child guidance theories and their implications for communicating and
interacting with young children, for guiding child behavior, and for de-
signing early childhood settings. Formerly HD 281A. Prerequisite: HD
280. (4 units)

282. Early Childhood Curriculum and Programs
Methods, materials, and activities in early childhood education. For-
merly HD 282A. Prerequisites: HD 281 and 291. (4 units)

291. Interactions with Young Children: Laboratory
Supervised experience focusing on developmentally appropriate
practices in communicating and interacting with young children and
guiding child behavior. Six hours laboratory. Materials fee required.
Formerly HD 281B. Prerequisites: HD 270 or 280, concurrent or prior
enrollment in either HD 271 or 281, and current TB test. (2 units)

292. Curriculum and Program: Laboratory
Supervised experience focusing on planning, implementing, and
evaluating curriculum activities with young children. Six hours labora-
try. Materials fee required. Formerly HD 282B. Prerequisites: HD
271 or 281, concurrent enrollment in HD 272 or 282, and current TB
test. (2 units)

Upper Division

302. History of Childhood
Historical survey of childhood within the contexts of family and soci-
ety. (4 units)

304. Theories of Play
Interdisciplinary survey of theories of play and their applications to
child development. Formerly HD 303. Prerequisite: HD 240 or PSYC
201. (4 units)

310. Applied Research Methods
Overview of applied research methods in psychology and the behav-
ioral sciences. Emphasis on the use of applied methods, their analy-
ses, and scientific writing. Topics may include quasi-experimental
design, correlational design, behavioral observation, archival analy-
sis, single-case methodology, survey methodology, research ethics,
library research strategies, and writing research reports. (Also offered
as PSYC 310. Students may not receive credit for both.) Prerequi-
sites: PSYC 100 and 210. (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 de-
velopmentally-appropriate classroom practices. Requires five hours
of observation and participation in a public elementary school class-
room. Corequisite: EELB 310. (3 units)

324. Developmental Psychobiology
Psychobiological bases of human behavioral development through-
out the life span. (Also offered as PSYC 324. Students may not re-
ceive 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 re-
ceive credit for both.) Prerequisite: PSYC 201 or equivalent.
(4 units)

400. Child Assessment
Theory and procedures for assessing cognitive, social, and motor
abilities in infants and children. Includes a practicum in administ-
ering and interpreting selected developmental screening tests. Four hours
lecture and three hours practicum. (Also offered as PSYC 400. Stu-
dents may not receive credit for both.) Materials fee required. Prereq-
uisites: one of the following: HD 240, 280, PSYC 201 or 240; and one
of the following: HD 245, 246 or 247. (5 units)
460. Adult Assessment
Theory, issues, and procedures in assessment of physical, cognitive, social, and emotional functioning in adulthood and old age. Prerequisite: HSCI 423, 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. 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. Prerequisites: senior standing, EELB 310 and HD 315 or equivalent. (3 units)

520. Intergenerational Aspects of Human Development
Theory and research on the processes through which family members of different generations influence one another's development. (4 units)

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)

550. Development of Intimate Relationships
Exploration of intimate relationship formation, maintenance, and termination with emphasis on theory and empirical research. Topics include attraction, communication, love, sex, power, and conflict. Formerly a topic under HD 582. Prerequisite: upper-division or graduate standing in Human Development/Child Development or Psychology. (4 units)

575. Internship
Supervised work and study in private and public organizations. May be repeated once for credit. Only four units may be applied to upper-division credit in the Human Development major. Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course (see Human Development Internship coordinator). Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

582. Special Topics in Human Development
An intensive study of selected topics related to human development. May be repeated for credit as topics change. Prerequisite: upper-division or graduate standing. (1-5 units)
HUMANITIES
College of Arts and Letters
University Hall, Room 237 or 339
(909) 537-5800 or 537-5869  artsletters.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 ABC/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. Graded A, B, C/no credit. Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (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)

328. Asian Cultural Traditions
Cultural issues in Asia, such as religion and philosophy, literature, the arts and expressive traditions, as well as gender and identity. 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. Prerequisite: junior or senior standing. (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 self-expression 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 ABC/no credit. Prerequisites: HUM 197 and completion of at least 90 units in the B.A. in Liberal Studies. (1 unit)
425. Integrative Seminar in Asian Studies
Advanced interdisciplinary and integrative study of issues in Asian philosophy, literature, the arts and other aspects of culture. (4 units)

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=G2) (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: 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. I. Taught in English. (4 units)
B. II. 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. (1-5 units)

576-581. International Experience
Written research project based on student's international experience. Research for the project will be completed in the country of choice. A written proposal for the project must be submitted for approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit. Prerequisite: junior standing or consent of instructor. (1-6 units)
INFORMATION SYSTEMS AND TECHNOLOGY

Department of Information and Decision Sciences
Jack Brown Hall, Room 460
(909) 537-5723  ids.csusb.edu

FACULTY: Anthony Coulson, Nicole Lytle-Kosola, Frank Lin, Tapie Rohm, Conrad Shayo, Walt Stewart, Bob Wilson, Jake Zhu (Chair)

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 74. The Master of Business Administration can be found on Page 387. 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 SYSTEMS AND TECHNOLOGY (IST)

Lower Division

101. Introduction to Information Technology
Introduction to information technology concepts and skills. Survey of current computer hardware and software, their use in organizations, and attending ethical issues. An introduction to popular software applications (word processing, spreadsheets, and presentation graphics). No prior computer experience required. Formerly INFO 102 and 103. Three hours lecture and two hours activity laboratory. (4 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. Formerly INFO 150. Prerequisite: IST 101 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. Formerly INFO 160. Prerequisite: IST 101 or consent of instructor. (4 units)

274. Data Base Management and Policies
Fundamentals of database design and use. Topics include database application in organizations, end user needs analysis, logical data base design, data integrity and database security. Students design and create working applications using a popular business data base program. Information classification, management and disposal practices are explored. Formerly INFO 274. Prerequisite: IST 101 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. Formerly INFO 275. Prerequisite: IST 101 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. Formerly IST 276. Prerequisite: IST 101 or consent of instructor. (4 units)

280. Information Mapping and Data Visualization
Introduction to concepts and tools of data visualization. Together with traditional charting and graphing methods, students are introduced to the use of geographic information systems (GIS). Using spatial modeling tools and quantitative methods, the course provides students with practical applications for converting data into information. Formerly INFO 280. Prerequisite: IST 101 or consent of instructor. (4 units)

282. Business Systems I
An introduction to business system development in an object-oriented environment. Emphasizes object-oriented programming in a graphical user interface environment. Object-oriented concepts are applied to computer problem solving. Knowledge of computer programming is not essential. Formerly INFO 282. Prerequisite: IST 101 or consent of instructor. (4 units)

283. Business Systems II
An advanced study of information systems development in an object-oriented environment. Object-oriented concepts are applied to construction of computer solutions for business information systems. Knowledge of computer programming is essential. Formerly INFO 283. Prerequisite: IST 282 or consent of instructor. (4 units)

Upper Division

20. Information Mapping and Data Visualization
An advanced study of information systems development in an object-oriented environment. Object-oriented concepts are applied to construction of computer solutions for business information systems. Knowledge of computer programming is essential. Formerly INFO 20. Prerequisite: IST 101 or consent of instructor. (4 units)

305. 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. (Also offered as SCM 305. Students may not receive credit for both.) Prerequisite: IST 101. (4 units)

309. Information Systems and Technology
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. Formerly INFO 309. Prerequisite: IST 101. (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 372. Prerequisite: IST 309 or consent of instructor. (4 units)

378. 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 378. Prerequisite: IST 309 or consent of instructor. (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. (Also offered as SCM 405. Students may not receive credit for both.) Prerequisite: IST 305 or SCM 305. (4 units)

410. Information Systems Security Professionals
Advanced study in information assurance and systems security for information systems professionals. Creates a sensitivity to the threats and vulnerabilities of national security information systems, recognition of the need to protect data, and information for processing them. Designing, executing, and evaluating principles and practices according to Information Security (INFOSEC) standards established by the federal government (CNSS 4011). Formerly INFO 410. Prerequisite: IST 309 or consent of instructor. (4 units)

415. Security Systems Management
Advanced study in the theory and practice of security systems management and the process of approval to operate. Analyze and judge information for the validity and reliability to ensure the system will operate at the proposed level of trust. Topics include information systems architecture, system security measures, system operations policy, system security management planning, legal and ethical considerations, and provisions for system operator and end user training. Course meets Senior Systems Manager (SSM) standards established by the federal government (CNSS 4012). Formerly INFO 415. Prerequisite: IST 410 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. Formerly INFO 474. Prerequisites: IST 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. Formerly INFO 475. Prerequisites: IST 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. Formerly INFO 476. Prerequisites: IST 276 and 309, or consent of instructor. (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. Formerly INFO 480. Prerequisites: IST 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. Formerly INFO 485. Prerequisites: IST 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. Formerly INFO 490. Prerequisites: completion of all other courses in chosen concentration program and the upper-division writing requirement. (4 units)

511. Cyber Defense
Advanced study of information assurance and security including methods and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, red teaming methods, countermeasures, practices and law. Students will work in simulated environments and will investigate crimes and experience various security scenarios. Formerly a topic under IST/INFO 590. Prerequisites: IST 410 or 610, and the upper-division writing requirement; or consent of instructor. (4 units)

525. Computer Forensics
A systematic inspection of computer systems for evidence of a crime and use in civil litigation. Identify sources of digital evidence, preserve and analyze digital evidence, present findings, and learn tools computer forensics experts use. Formerly a topic under IST/INFO 590. Prerequisites: IST 309, 372, and the upper-division writing requirement; or consent of instructor. (4 units)

575. Internship in Information Systems and Technology
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. Formerly INFO 575. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

590. Seminar in Information Systems and Technology
An intensive study of some phase of information systems and technology to be developed by the instructor. May be repeated for credit as topics change. Formerly INFO 590. Prerequisite: the upper-division writing requirement. (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. Formerly INFO 595. Prerequisites: a minimum overall grade point average of 3.0, the upper-division writing requirement, 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. A standard application filed in advance of the quarter in which the course is to be taken. (2 or 4 units)
ISLAMIC AND MIDDLE EASTERN STUDIES

College of Social and Behavioral Sciences
Social and Behavioral Sciences Building, Room 302E
(909) 537-7569  cimes.csusb.edu

Minor
Islamic and Middle Eastern Studies

Certificate
Islamic and Middle Eastern Studies

COORDINATOR: Kevin Grisham

The university offers a minor and certificate program in Islamic and Middle Eastern Studies, overseen by the Center for Islamic and Middle Eastern Studies in the College of Social and Behavioral Sciences. The course work provides students with a broad introduction to Middle Eastern Studies, creating a foundation for students to pursue advanced study or possible employment in related fields. The curriculum is multidisciplinary, bringing together a diverse faculty of specialists from the departments of Anthropology, Communication Studies, History, Humanities, Political Science and World Languages and Literatures. Core courses focus on the politics, culture and history of the Middle East. Students then select courses in a variety of fields that reflect the dynamic inter-relationship of cultures in the Middle East.

MINOR IN ISLAMIC AND MIDDLE EASTERN STUDIES

Requirements (32 units)

Requirements for a minor in Islamic and Middle Eastern Studies:

Core Courses (16 units):
1. ANTH 358. Peoples of the Middle East (4)
2. HIST 383. Classical Islamic Civilization (4)
3. HUM 375. The World of Islam (4)
4. PSCI 308. Government and Politics of the Middle East (4)

Electives (16 units):
1. Sixteen units chosen from:
   - ANTH 303. Prehistory of the Middle East Europe (4)
   - ARAB 216. Introduction to Literary Texts (4)
   - ARAB 290. Arabic Literature in Translation (4)
   - ARAB 370. Arabic Film and Culture (4)
   - ARAB 470. Contemporary Issues in Arab Culture (4)
   - ARAB 471. Media in the Arab World (4)
   - ARAB 480. Special Topics in Classical Islamic Texts (4)
   - ARAB 481. Special Topics in Contemporary Arabic Literature (4)
   - COMM 565. Advanced Topics in Mass Communication (4)
   - ENG 319. Studies in Literature (4)
   - HIST 330. Oral History (4)
   - HIST 384. Modern Middle East (4)
   - HIST 480. History of Christianity I (4)
   - HIST 485. Arab Israeli Conflict (4)
   - HIST 486. Modern Iran (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)
   - HIST 491. Nationalism and Conflict in the Middle East (4)
   - HIST 492. U.S. Media and the Middle East (4)
   - HIST 493. Iran-U.S. Relations (4)
   - PSCI 540. Seminar in Comparative Politics (4)(when the topic is Islamic/Middle East)

An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on a Middle Eastern topic. (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. Candidates must 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. See Page 60 for further certificate information.

Certificate in Islamic and Middle Eastern Studies

Certificate Requirements (36 units)

Core Courses (16 units):
1. ANTH 358. Peoples of the Middle East (4)
2. HIST 383. Classical Islamic Civilization (4)
3. HUM 375. The World of Islam (4)
4. PSCI 308. Government and Politics of the Middle East (4)

Electives (20 units):
1. Twenty units chosen from:
   - ANTH 303. Prehistory of the Middle East Europe (4)
   - ANTH 334. Anthropology and Film (4)
   - ARAB 216. Introduction to Literary Texts (4)
   - ARAB 290. Arabic Literature in Translation (4)
   - ARAB 370. Arabic Film and Culture (4)
   - ARAB 470. Contemporary Issues in Arab Culture (4)
   - ARAB 471. Media in the Arab World (4)
   - ARAB 480. Special Topics in Classical Islamic Texts (4)
   - ARAB 481. Special Topics in Contemporary Arabic Literature (4)
   - COMM 565. Advanced Topics in Mass Communication (4)
   - ENG 319. Studies in Literature (4)
   - HIST 330. Oral History (4)
   - HIST 384. Modern Middle East (4)
   - HIST 385. History of Christianity I (4)
   - HIST 486. Modern Iran (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)
   - HIST 491. Nationalism and Conflict in the Middle East (4)
   - HIST 492. U.S. Media and the Middle East (4)
   - HIST 493. Iran-U.S. Relations (4)
   - PSCI 540. Seminar in Comparative Politics (4)
   - PSCI 605. Topics in Strategy (4)
   - ENG 319. Studies in Literature (4)
   - HIST 330. Oral History (4)
   - HIST 384. Modern Middle East (4)
   - HIST 385. History of Christianity I (4)
   - HIST 486. Modern Iran (4)
   - HIST 487. Topics in Modern Middle Eastern History (4)
   - HIST 491. Nationalism and Conflict in the Middle East (4)
   - HIST 492. U.S. Media and the Middle East (4)
   - HIST 493. Iran-U.S. Relations (4)
   - PSCI 540. Seminar in Comparative Politics (4)
   - PSCI 605. Topics in Strategy (4)

NOTE: 600-level courses are not available for undergraduate students.
Certificate

Health Equity and Health Disparities (see Addendum for program)

Courses listed below are offered in support of various programs offered by the university.

COURSE OFFERINGS IN INTERDISCIPLINARY STUDIES (IS)

Upper Division

400. Research Ethics
Covers Research Ethics (also known as Responsible Conduct of Research) and will include a Visiting Scholar seminar series and will cover use of animals and humans as research subjects, intellectual property, authorship, and research misconduct. The Visiting Scholars will talk about 1) their research project, 2) their career background (how and why did they choose this career path), and 3) advice on developing their scientific career. Open to all students. Meets the Responsible Conduct of Research training requirement for NIH and NSF grants. (4 units)
The Japanese program, open to all interested students, offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Japan. Information on the special interdisciplinary major in Japanese area studies may be obtained from the Department of World Languages and Literatures.

MINOR IN JAPANESE

Requirements (32 units) (see Addendum for program changes)

Requirements for a minor in Japanese:
1. Proficiency in Japanese equal to JAPN 103. College Japanese III or equivalent.
   *Note:* Entering students with previous training in Japanese, or those who are native speakers, should contact the Department of World Languages and Literatures or the Japanese program coordinator for information about placement and credit by examination. Students with no prior exposure to Japanese need to take JAPN 101, 102 and 103 which will not count toward the 32-unit requirement for the minor.

Lower-division requirements (12 units)
1. JAPN 201. Second Year College Japanese I (4)
2. JAPN 202. Second Year College Japanese II (4)
3. JAPN 203. Second Year College Japanese III (4)

Upper-division requirements (12 units)
1. JAPN 301. Advanced Japanese I (4)
2. JAPN 302. Advanced Japanese II (4)
3. JAPN 303. Advanced Japanese III (4)

Electives (8 units)
1. Eight units chosen from:
   - JAPN 275. Introduction to Japanese Business Culture (2)
   - JAPN 290. Japanese Literature in Translation (4)
   - JAPN 310. Introduction to Japanese Literature (4)
   - JAPN 314. Advanced Conversation (4)
   - JAPN 315. Language in Japanese Society (4)
   - JAPN 370. Japanese Film and Culture (4)
   - JAPN 399. Community Service Project (1-2) for a total of (6)

LOWER DIVISION

101. College Japanese I
Introduction to beginning level Japanese, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. (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. Prerequisite: JAPN 101 or consent of department. (4 units)

103. College Japanese III
Develops listening and speaking skills with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Formerly JAPN 150. Prerequisite: JAPN 102 or consent of department. (GE=C3) (4 units)

170. Beginning Japanese Conversation
Practice of oral Japanese with emphasis on familiar surroundings, immediate needs, and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit. (2 units)

201. Second Year College Japanese I
Further study of the language to attain proficiency in four language skills: listening, speaking, reading, and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Japanese culture. Prerequisite: JAPN 103 or consent of department. (GE=C3) (4 units)

202. Second Year College Japanese II
Emphasis on the continued vocabulary and syntactic development of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Prerequisite: JAPN 201 or consent of department. (GE=C3) (4 units)

203. Second Year College Japanese III
Further development of proficiency in speaking, listening, reading, and writing. Further expansion of vocabulary enhances ability of students to understand and express more complex ideas and concepts. Prerequisite: JAPN 202 or consent of department. (GE=C3) (4 units)

214. Conversation in Japanese
Practice of oral Japanese including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Prerequisite: JAPN 103 or equivalent. (GE=C3) (4 units)

275. Japanese Business Culture
Analysis of Japanese business etiquette and culture. Focus on Japanese business practices, traditions, values and communication styles, including practical tips for doing business in Japanese. Taught primarily in English with introduction of Japanese vocabulary. (2 units)
290. **Japanese Literature in Translation**
Introduction to Japanese literature read in English translation. Selection of writers and genres from classical and contemporary Japanese literature. (GE=C3) (4 units)

**Upper Division**

301. **Advanced Japanese I**
First course in an upper-level sequence. Develops students' oral and written language skills, as well as knowledge of Japanese culture. Prerequisite: JAPN 203 or consent of department. (4 units)

302. **Advanced Japanese II**
Second course in an upper-level sequence. Develops students' oral and written language skills, as well as knowledge of Japanese culture. Prerequisite: JAPN 301 or consent of department. (4 units)

303. **Advanced Japanese III**
Third course in an upper-level sequence. Develops students' oral and written language skills, as well as knowledge of Japanese culture. Prerequisite: JAPN 302 or consent of department. (4 units)

310. **Introduction to Japanese Literature**
Techniques of literary study and analysis. Emphasis on vocabulary development, written expression and comprehension. Prerequisite: JAPN 301 or consent of department. (4 units)

314. **Advanced Conversation**
Practice of contemporary spoken Japanese through the reading and discussion of current topics. Prerequisite: JAPN 203 or consent of department. (4 units)

315. **Language in Japanese Society**
Study of how language functions in contemporary Japanese society. Politeness, gender, language attitudes, the mechanics of cross-cultural misunderstanding, how language incorporates Japanese social constructs. Prerequisite: JAPN 301 or consent of department. (4 units)

370. **Analysis of Japanese Culture through the Study of Film**
Analysis of selected classical and contemporary Japanese films. Explores Japanese culture as well as significant directors and their unique use of photography, music, literature, and scripting. Prerequisite: JAPN 301 or consent of department. (4 units)

399. **Community Service Project**
Credit for applying previously learned skills in Japanese to academically related tasks in agencies as governmental, social service, and educational institutions. May be repeated for a total of six units towards the degree. Graded credit/no credit. Prerequisite: consent of department. (1-2 units)
KINESIOLOGY

Department of Kinesiology
Health and Physical Education Building, Room 120
(909) 537-5349  kine.csusb.edu

Bachelor of Science
- Kinesiology
- Exercise Science
- Pedagogy
- Pre-Physical Therapy

Teaching Credential Programs
- Adapted Physical Education Added Authorization
- Single Subject
  (Offered through the College of Education.)

Master of Arts
- Education - Kinesiology Option
  (Degree requirements can be found on Page 431.)

Minor
- Kinesiology
- Recreation

Certificate Programs
- Coaching
  - Fitness Management
  - Recreation Leadership

FACULTY: Cuauhtemoc Carboni, Pablo Costa, Bryan Haddock,
Stephen Kinzey, Aaron Moffett, Hyun-Kyoung Oh, Terry Rizzo (Chair),
Shannon Siegel, Hosung So

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 added authorization and a single subject teaching credential are offered. The added authorization and credential are offered through the College of Education.

The major in kinesiology is designed for the student preparing to:
1. Become a physical education teacher;
2. Select a career in nonteaching fields related to physical activity, such as commercial physical fitness, sport business, research and development, or commercial leisure services;
3. Pursue graduate work in kinesiology or related disciplines.

B.S. IN KINESIOLOGY - EXERCISE SCIENCE
Requirements (79 units)
Total units required for graduation (180)

Requirements for the B.S. in Kinesiology - Exercise Science Concentration:
Lower-division requirements (21 units)
1. BIOL 100. Topics in Biology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. KINE 210. Introduction to Kinesiology (2)
5. KINE 240. Exercise Science Software (2)
6. KINE 270. Introduction to Fitness and Testing (2)

Upper-division requirements (58 units)
1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. Affective/Social Domain
   - 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 (4)
5. KINE 360. Physical Activity and Aging (2)
6. KINE 370. Measurement and Statistics in Kinesiology (4)
7. KINE 382. Nutrition for Health, Fitness and Sports (4)
8. KINE 410. Motor Control and Skill Learning (4)
9. KINE 471. Exercise Science Program Management (4)
10. KINE 480. Biomechanics (5)
11. KINE 481. Exercise Physiology (5)
12. KINE 483. Exercise Prescription (4)
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)

B.S. IN KINESIOLOGY - PEDAGOGY
Requirements (91 units)
Total units required for graduation (180)

Requirements for the B.S. in Kinesiology - Pedagogy Concentration:
Lower-division requirements (39 units)
1. BIOL 100. Topics in Biology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. KINE 210. Introduction to Kinesiology (2)
5. KINE 254. Field Experience (2)
6. KINE 261C. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance (2)

Upper-division requirements (52 units)
1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. Affective/Social Domain
   - 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 (4)
5. KINE 360. Physical Activity and Aging (2)
6. KINE 370. Measurement and Statistics in Kinesiology (4)
7. KINE 382. Nutrition for Health, Fitness and Sports (4)
8. KINE 410. Motor Control and Skill Learning (4)
9. KINE 471. Exercise Science Program Management (4)
10. KINE 480. Biomechanics (5)
11. KINE 481. Exercise Physiology (5)
12. KINE 483. Exercise Prescription (4)
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)

Individual and Dual Sports/Movement Forms
Two units chosen from:
1. KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2)
2. KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
3. KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)

10. Individual and Dual Sports/Movement Forms
Two units chosen from:
1. KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf (2)
2. KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
3. KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise (2)
4. 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 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)

11. KINE 270. Introduction to Fitness and Testing (2)

Upper-division requirements (52 units)
1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. KINE 310. History and Philosophy of Physical Activity (4)
3. KINE 311. Introduction to Adapted Physical Education (4)
4. KINE 323. Sociology of Physical Activity (4)
5. KINE 324. Psychology of Physical Activity (4)
6. KINE 325. Motor Development Across the Lifespan (4)
7. KINE 370. Measurement and Statistics in Kinesiology (4)
8. KINE 410. Motor Control and Skill Learning (4)
9. KINE 472. Program Design in Physical Education (4)
10. KINE 473. Instructional Strategies in Physical Education (4)
11. KINE 479. Qualitative Biomechanics (5)
12. KINE 481. Exercise Physiology (5)
13. KINE 490. Senior Seminar in Kinesiology (2)

B.S. IN KINESIOLOGY - PRE-PHYSICAL THERAPY

Requirements for the B.S. in Kinesiology - Pre-Physical Therapy Concentration

Lower-division requirements (52 units)
1. BIOL 100. Topics in Biology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 215. General Chemistry I (6)
5. CHEM 216. General Chemsitry II (6)
6. KINE 210. Introduction to Kinesiology (2)
7. KINE 270. Introduction to Fitness and Testing (2)
8. MATH 192. Methods of Calculus (4)
9. 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)
10. 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 (4)
4. KINE 360. Physical Activity and Aging (2)
5. KINE 370. Measurement and Statistics in Kinesiology (4)
6. KINE 410. Motor Control and Skilled Learning (4)
7. KINE 480. Biomechanics (5)
8. KINE 481. Exercise Physiology (5)
9. KINE 490. Senior Seminar in Kinesiology (2)
10. KINE 493. Internship (2)
11. PSYC 390. Abnormal Psychology (4)

ADAPTED PHYSICAL EDUCATION

ADDED AUTHORIZATION

Requirements (20 units)

For information on the added authorization, contact the Credential Office, CE-102, (909) 537-7401.

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Added Authorization in Adapted Physical Education requires
the following:
1. A valid California teaching credential authorizing the teaching of physical education.

**Recommendation for the Adapted Physical Education Added Authorization:**
In addition to meeting the general requirements of the university for admission as a post baccalaureate student, admission to the Adapted Physical Education Added Authorization requires one of the following:
1. A valid preliminary, clear, professional clear, or life California general education teaching credential based on a baccalaureate degree, and a program of professional preparation including student teaching that authorizes the teaching of physical education in any grades K-12;
2. A valid preliminary, professional clear, Level I, Level II, clear or life special education teaching credential with completion of a minimum of twelve semester units, or the equivalent quarter units, in physical education content courses with a minimum of three semester units, or the equivalent quarter units, in both kinesiology and motor development.

**Requirements (20 units)**
1. KINE 311. Introduction to Adapted Physical Education (4)
2. KINE 332. The Nature and Issues Concerning Individuals with Disabilities (4)
3. KINE 333. Applied Behavior Management (4)
4. KINE 334. Seminar in Adapted Physical Activity (4)

**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 170 or contact the Credentials Office, CE-102.

**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)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 210. Introduction to Kinesiology (2)
4. KINE 254. Field Experience (2)
5. Eight units chosen from:
   - KINE 261A. Professional Activity Preparation in Individual and Dual Sports/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 and Dual Sports/Movement Forms: Dance (2)
   - KINE 261D. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf (2)
   - KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2)
   - KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
   - KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming (2)
   - KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)
   - KINE 261I. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
   - KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)
   - KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Volleyball (2)
   - KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
6. Four units chosen from:
   - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
   - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
   - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
   - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
   - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)

**Upper-division requirements (17 units)**
1. KINE 305. Prevention and Treatment of Sports Injuries (4)
2. Four units chosen from:
   - KINE 323. Sociology of Physical Activity (4)
   - KINE 324. Psychology of Physical Activity (4)
3. Four units chosen from:
   - KINE 471. Exercise Science Program Management (4)
   - KINE 472. Program Design in Physical Education (4)
4. KINE 481. Exercise Physiology (5)

**MINOR IN RECREATION**

**Requirements (24 units)**

Note: the minor will not be offered during the 2012-2014 years.

**Requirements for a minor in Recreation:**

**Lower-division requirements (16 units)**
1. KINE 200. First Aid (2)
2. KINE 203. Introduction to Recreation (4)
3. KINE 254. Field Experience (2)
4. KINE 271. Recreation Leadership (4)
5. KINE 277. Recreation Programming (4)

**Upper-division requirements (8 units)**
1. KINE 365. Outdoor Education and Camp Leadership (4)
2. KINE 471. Exercise Science Program Management (4)

**CERTIFICATE PROGRAMS**
Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to: a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Candidates must receive two-thirds of their certificate-applica-
Certificate in Coaching

Certificate requirements (33 units)

Lower-division requirements (12 units)
1. KINE 200. First Aid (2)
2. Four units chosen from:
   - KINE 261A. Professional Activity Preparation in Individual and Dual Sports/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 and Dual Sports/Movement Forms: Golf (2)
   - KINE 261D. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)
   - KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field (2)
   - KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise (2)
   - KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts (2)
   - KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261I. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261M. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261N. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning (2)
   - KINE 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga (2)
3. Four units chosen from:
   - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
   - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
   - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
   - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
   - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)
   - KINE 263F. Professional Activity Preparation of Team Sports: Water polo (2)
   - KINE 263G. Professional Activity Preparation of Team Sports: Tennis (2)
   - KINE 263H. Professional Activity Preparation of Team Sports: Track and Field (2)
4. KINE 267. Sports Officiating (2)

Upper-division requirements (21 units)
1. KINE 323. Sociology of Physical Activity (4)
2. KINE 324. Psychology of Physical Activity (4)
3. KINE 343. Methods and Techniques of Coaching (4)
4. KINE 472. Program Design in Physical Education (4)
5. Five units chosen from:
   - KINE 479. Qualitative Biomechanics (5)
   - KINE 480. Biomechanics (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)
3. KINE 471. Exercise Science Program Management (4)
4. KINE 480. Biomechanics (5)
5. KINE 481. Exercise Physiology (5)
6. KINE 482. Contemporary Fitness Programs (4)
7. KINE 483. Exercise Prescription (4)
8. KINE 580. Exercise, Energy and Human Performance (4)

Certificate in Recreation Leadership

Certificate requirements (31 units)

1. KINE 203. Introduction to Recreation (4)
2. KINE 271. Recreation Leadership (4)
3. KINE 277. Recreation Programming (4)
4. Four units chosen from:
   - KINE 137A. Aquatic Activities: Lifeguard training (2)
   - KINE 137C. Aquatic Activities: Basic and emergency water safety (2)
   - KINE 137D. Aquatic Activities: Boating and canoeing (2)
   - KINE 137F. Aquatic Activities: Scuba diving (2)
   - KINE 137G. Aquatic Activities: Skin diving (2)
   - KINE 137H. Aquatic Activities: Springboard diving (2)
   - KINE 137J. Aquatic Activities: Swimming (2)
   - KINE 137K. Aquatic Activities: Water polo (2)
5. Four units chosen from:
   - KINE 146A. Outdoor Skills Activities: Backpacking (2)
   - KINE 146B. Outdoor Skills Activities: Camping (2)
   - KINE 146C. Outdoor Skills Activities: Mountaineering (2)
   - KINE 146D. Outdoor Skills Activities: Orienteering (2)
   - KINE 146E. Outdoor Skills Activities: Survival skills (2)

Upper-division requirements (11 units)
1. KINE 365. Outdoor Education and Camp Leadership (4)
2. KINE 454. Field 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;
2. Earned a 3.0 ("B") grade point average overall;
3. Over one-half of the course work for the kinesiology major must be taken at California State University, San Bernardino;
4. Recommendation by the kinesiology faculty.

KINESIOLOGY - BASIC INSTRUCTION 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 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
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. (GE=E3)

A. Archery (2 units)
B. Badminton (2 units)
C. Bicycling (Field trips required.) (2 units)
D. Bowling (Field trips required.) (2 units)
E. Golf (Field trips required.) (2 units)
F. Gymnastics (2 units)
G. Racquetball (2 units)
H. Skiing-Alpine (Field trips required.) (2 units)
I. Skiing-Nordic (Field trips required.) (2 units)
J. 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. (GE=E3)

A. Body conditioning (2 units)
B. Circuit training (2 units)
C. Jogging (2 units)
D. Weight training (2 units)
E. Yoga (2 units)

**120. Somatic and Martial Arts Activities**

Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. (GE=E3)

A. Aikido (2 units)
B. Tai 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)
J. Pilates (2 units)
K. Tae Kwon Do (2 units)
L. Sampler (2 units)

**121. Team Activities**

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. (GE=E3)

A. Basketball (2 units)
B. Flag football (2 units)
C. Soccer (2 units)
D. Softball (2 units)
E. Team handball (2 units)
F. 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.) (2 units)
B. Basic and emergency water safety. (Red Cross certification available.) (2 units)
C. Boating and canoeing. (Field trips required. Red Cross certification available.) (2 units)
D. Scuba diving. (Field trips required. NAUI certification available. Doctor's physical examination required.) Prerequisite: skin diving or consent of instructor. (2 units)
E. Skin diving. (Field trips required. NAUI certification available.) (2 units)
F. Springboard diving. (2 units)
G. Swimming. (Red Cross certification available.) (2 units)
H. Water polo. (2 units)
I. Advanced swimming for Fitness. Intended for those who have already taken an introductory swim class or who have prior swimming ability. Advanced swimming drill and lap swim workouts. (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.

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. (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. (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. Prerequisite: consent of department chair. (GE=E3) (2 units)

**150. Dance Activities**

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141. (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)
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. 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. 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. (2 units)

203. Introduction to Recreation
Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. (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. (GE=E1) (2 units)

210. Introduction to Kinesiology
Provides an overview of the discipline of kinesiology. Formerly KINE 210A. 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. 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. (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.
A. Archery (2 units)
B. Badminton (2 units)
C. Dance (2 units)
D. Golf (2 units)
E. Gymnastics (2 units)
F. Racquetball (2 units)
G. Swimming. Prerequisites: KINE 137A, 137C, 137J, 137K or 137L. (2 units)
H. Tennis (2 units)
I. Track and Field (2 units)
J. Aerobic Exercise (2 units)
K. Martial Arts (2 units)
L. Strength and Conditioning (2 units)
M. Yoga (2 units)

263. Professional Activity Preparation of Team Sports
The development of the fundamental techniques and skills for teaching these activities.
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. (2 units)

270. Introduction to Fitness and Testing
Understanding the scientific basis for assessing physical, fitness, and strength development. Acquisition of the skills and techniques necessary for designing and evaluating fitness programs for specific applications. Four hours activity. (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. (4 units)

277. Recreation Programming
Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, arts and sports. Prerequisite: KINE 203 or 271. (4 units)

Upper Division

301. Service Learning in Kinesiology
Supervised activities in Kinesiology that provide service to campus or community constituents based on field experiences for students to link their coursework with the discipline of Kinesiology. Graded ABC/no credit. May be repeated for credit. Prerequisite: KINE 210. (2 units)

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 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. Four hours lecture. (4 units)

311. Introduction to Adapted Physical Education
Provides an overview of adapted physical education. May not be taken for credit by students who have received credit for KINE 210B.
230. Sociology of Physical Activity
Sociocultural aspects of sport and physical activity, including socialization process, social issues, reflection of social values and interactions with other social institutions. Four hours lecture. (4 units)

234. 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. (4 units)

235. 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. Four hours lecture with demonstrations. (4 units)

230. Movement Skill Assessment for Individuals with Disabilities
Analysis of motor skills for the purpose of conducting meaningful assessment for individuals with disabilities. Prerequisites: KINE 311. (4 units)

231. 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. Prerequisite: KINE 311.
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)

232. The Nature and Issues Concerning Individuals with Disabilities
Key initial adapted physical education core competencies about the nature and issues associated with disabling conditions across the lifespan. Required for the California Adapted Physical Education Specialist Credential. (4 units)

233. Applied Behavior Management
Applied behavior management strategies that have relevance and application to teaching physical education. Strategies to manage, motivate, and teach responsible behaviors in a variety of physical activity settings for individuals with and without disabilities. Emphasis is on single-subject applied research design. Course required for the California Adapted Physical Education Specialist Credential. (4 units)

234. Seminar in Adapted Physical Activity
Selected topics and personalities, both enduring and contemporary and significant to adapted physical activity (APA) and adapted physical education (APE). Course required for the California Adapted Physical Education authorization. (4 units)

235. 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. (4 units)

236. 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. (4 units)

300. 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 and fitness specialist by the American College of Sports Medicine. Two hours lecture. (2 units)

305. 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. (4 units)

330. Measurement and Statistics in Kinesiology
Selection, application and interpretation of evaluative measures used in pedagogical and in exercise science settings. Includes both descriptive and inferential statistics. Specific attention will be given to parametric techniques. Four hours lecture. Prerequisites: completion of the general education requirement in mathematics. (4 units)

335. 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. Prerequisite: KINE 305. (4 units)

338. Nutrition for Health, Fitness and Sports
Addresses nutrition needs of active people and athletes. Topics include, but not limited to macro and micronutrient 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)

335. Diversity Issues in Sport and Physical Activity
Exploration of how historical and contemporary forces in society have shaped the opportunities and experiences of various cultural groupings in American sport and physical activity settings. Focuses primarily on diversity issues related to race, gender, social class, sexuality, religion and physical ability/disability in American sport. (4 units)

340. 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 a health and fitness specialist by the American College of Sports Medicine. Four hours lecture. Formerly KINE 320. (4 units)

344. Field Experience II
Supervised leadership experience in a teaching or fitness setting. Prerequisite: KINE 254 or consent of instructor. (3 units)

347. 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. (4 units)

348. 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 210 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 351. (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, 224 and MATH 110. (5 units)

480. Biomechanics
Application of physical laws to human performance; analytical and quantitative processes emphasized. Four hours lecture and three hours laboratory. 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. 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. (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 and fitness specialist by the American College of Sports Medicine. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: KINE 481, 485, 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 and fitness specialist by the American College of Sports Medicine. Materials fee required. Four hours activity. Laboratory included. Prerequisite: KINE 481. (2 units)

486. Instrumentation in Exercise Science
Prepares students to calibrate and operate basic physiological equipment used in fitness assessment. Content is consistent with skills necessary to prepare students as a health and fitness specialist by the American College of Sports Medicine. One hour lecture and three hours laboratory. Materials fee required. Prerequisites: KINE 481 and 485. (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. (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. Prerequisite: consent of instructor. (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. Prerequisites: senior or graduate standing and admission to the Single Subject Credential Program or consent of the College of Natural Sciences. (4 units)

540. 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. 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. 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. (1-4 units)

Graduate level courses can be found on Page 505.
LATIN AMERICAN STUDIES

College of Arts and Letters
University Hall, UH-201.44
(909) 537-5858  artsletters.csusb.edu

Minor
Latin American Studies

DIRECTOR: M. Antonietta Gallegos-Ruiz

MINOR IN LATIN AMERICAN STUDIES
Requirements (28 units)

Admission to the Program:
1. Students must meet general university admission requirements;
2. Students should discuss this minor with their academic advisors.
   All majors are eligible to participate in this minor.

Requirements for Graduation:
1. Minors can only be granted for the same term in which students graduate;
2. CSUSB will not consider for transfer credit coursework from an institution that will not accept that coursework in its own degree program.

Requirements for the Minor:
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 103D. Language Study III: Portuguese (4)
   - SPAN 103. College Spanish III (4)

International experience (4 units)
1. HUM 576. International Experience: Latin American Studies (1-6) for a total of (4)

Integrative international seminar (4 units)
1. Four units chosen from
   - HUM 500A. Current Ideas and Issues in Latin America I (4)
   - HUM 500B. Current Ideas and Issues in Latin America II (4)

Electives (12 units)
1. Twelve units, with at least one course each from groups A, B, and C:

   A. Social Sciences
   - 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 540. The Political Economy of Latin America (4)
   - GEOG 322. United States and Mexico Border Issues (4)
   - HIST 390. History of Modern Mexico (4)
   - HIST 391. Chicanos 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)
   - PSCI 352C. Minority Politics: Latino Politics (4)
   - SOC 342. The Chicanos Family (4)
   - SOC 442. Chicanos Social Stratification (4)

   B. Arts, Languages, Literature and Education
   - ART 324. Pre-Colombian Art (4)
   - ART 328. Mexican Art (4)
   - ART 329. Chicano Art (4)
   - EELB 512. Spanish Children's Literature for the Bilingual Classroom (4)
   - ENG 319. Studies in Literary Diversity (4)
   - ENG 323. Chicano Literature (4)
   - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
   - HUM 460. Cultural Studies (4)
   - MUS 351. Latin American Music (4)
   - SPAN 314. Advanced Conversation (4)
   - SPAN 316A. Spanish for the Professions: Communications (4)
   - SPAN 316B. Spanish for the Professions: Health Science (4)
   - SPAN 316C. Spanish for the Professions: Education (4)
   - SPAN 316D. Spanish for the Professions: Business (4)
   - SPAN 316E. Spanish for the Professions: Law Enforcement (4)
   - SPAN 412. Spanish American Culture and Civilization (4)
   - SPAN 435. Chicano Literature in Spanish (4)
   - SPAN 440. Mexican Literature (4)
   - SPAN 442. Literature of the Southern Cone (4)
   - SPAN 516. Seminar in Spanish American Literature, Culture or Film (4)

   C. Business, Management, Communication, Health and Nutrition
   - COMM 365. Topics in Mass Communication (when the topic is Media and Social Change in Latin America) (4)
   - COMM 471. International Communication (4)
   - COMM 593D. Communication Approaches to Area Studies: Latin America (4)
   - HSCI 344. International Perspectives on Nutrition (4)
   - HSCI 359. Global Health (4)
   - HSCI 385. Food and Culture: Traditions and Trends (4)
   - MGMT 405. Managing Across Borders (4)
   - MGMT 407. Comparative Management Systems of the Americas (4)
   - MKTG 470. International Marketing Management (4)

   Note: Students may receive credit for only one of the following courses:
   - ANTH 324. Pre-Colombian Art (4)
   - ART 324. Pre-Colombian Art (4)

   Foreign Language Requirement for Spanish or Portuguese:
   - In the electives categories, those courses not specifying a topic, are applicable only when the student's project/research focuses on Latin America.

   Note: Students must meet general university admission requirements; students should discuss this minor with their academic advisors. All majors are eligible to participate in this minor.

   CSUSB will not consider for transfer credit coursework from an institution that will not accept that coursework in its own degree program.

   In the electives categories, those courses not specifying a topic, are applicable only when the student's project/research focuses on Latin America.

   Note: Students may receive credit for only one of the following courses:
   - ANTH 324. Pre-Colombian Art (4)
   - ART 324. Pre-Colombian Art (4)

   Foreign Language Requirement for Spanish or Portuguese:
   - The following rules apply to challenging a language course for credit in this minor:
     1. Only courses at the 103-level or higher may be challenged.
     2. Students whose language of instruction in secondary school was Spanish or Portuguese may satisfy this category by submitting official academic transcripts showing that either language was, indeed, the medium of instruction in the school from which they graduated.
     3. Providing documentation of significant foreign language experience such as the successful completion of two years of Peace Corps experience in a Spanish- or Portuguese-speaking country.
LIBERAL STUDIES

Liberal Studies Office
College of Education Building, Room 114
(909) 537-5857  liberalstudies.csusb.edu

Liberal Studies Peer Advising Center (PALS)
College of Education Building, Room 114
(909) 537-5482

Bachelor of Arts
Liberal Studies - General Track
Liberal Studies - Integrated Track
Liberal Studies - Spanish Studies Track
Liberal Studies - Arts and Letters Track

COORDINATOR: Katherine Thomerson

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.

Most students pursuing this major intend to become teachers in K-8 classrooms and the Liberal Studies major program provides all the subject matter content required by the California Commission on Teacher Credentialing (CCTC).

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 quarters or 27 units) by working on the credential along with their B.A. degree.

The General and Spanish Studies baccalaureate degree programs prepare students to enter the Multiple Subject (Elementary School) teaching credential, generally during a fifth year of post-graduate study in the College of Education.

An Arts and Letters Track is available for those seeking a wellrounded and unspecialized undergraduate major but who do not plan to become teachers. This program is useful for careers requiring a broad educational background and strong communication, computer, research, and critical thinking skills. A choice of interdisciplinary concentrations is available in this track and a Minor is also required as well.

DEPARTMENTAL HONORS

The Liberal Studies student will be eligible for departmental honors upon verification of the following three requirements:

1. Earned a 3.5 grade point average in the major;
2. Completed at least 45 units of Liberal Studies courses at this university;
3. Successful completion of oral and written honors evaluations.

B.A. IN LIBERAL STUDIES - GENERAL TRACK (Pre-credential)

Requirements (173 units)
Total units required for graduation: 180

BASIC PROGRAM (157 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)
F. Physical Education and Health (10 units)
G. Human Development (10 units)
H. Additional General Education (GE) Requirements (20 units)
I. Additional Liberal Studies Requirements (8 units)
J. Concentration (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), CE-114;
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 I;
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; in either of their last two quarters.

Transfer students must enroll in HUM 197 during their first quarter if they have not had an equivalent course elsewhere, immediately followed by HUM 397. They will then take HUM 597 in either of their last two quarters;
6. All graduating 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)
1. Freshman Composition (G.E.)
   Four units chosen from:
   ENG 104A. Stretch Composition III (4)
   ENG 104B. Stretch Composition III for Multilingual Students (4)
   ENG 106. Accelerated Stretch Composition II (4)
   ENG 107. Advanced First-Year Composition (4)
2. Oral Communication (G.E.)
   COMM 120. Oral Communication (4)
   HON 104C. Language and Meaning: Oral Communication (4)
      (open only to Honors Program students)
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)
   TA 212. Oral Interpretation of Literature (4)
4. Upper division Writing (G.E.)
   Four units chosen from:
   EDUC 306. Expository Writing for Education (4)
   ENG 306. Expository Writing (4)
   HON 306. Expository Writing (4) (open only to Honors Program students)
   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.
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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)
   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)

2. World Civilization II
   HIST 142. World Civilizations II, the Civilizations of the East and the West (4)

3. American Civilization (G.E.)
   Four units chosen from:
   HIST 146. American Civilization (4)
   HIST 200. United States History to 1877 (4)

   PSCI 203. American Government (4)

5. California History
   HIST 270. California History (4)

6. Economics
   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)

1. Ideas of Mathematics (G.E.)
   MATH 115. The Ideas of Mathematics (4)

2. Fundamental Concepts of Mathematics for Educators
   MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
   MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)
   MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)

3. Problem Solving in Mathematics
   MATH 308. Problem Solving Through Theory and Practice (2)
   Note: All MATH courses must be passed with a grade of "C" or better.

D. Science (22 units)

1. Life Sciences (G.E.)
   BIOL 100. Topics in Biology (5)

2. Physical Science (G.E.)
   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:
   ASTR 311. A Cosmic Perspective of Earth (5)
   GEOG 311. The Dynamic Earth (5)
   GEOL 309. Earth: The Blue Planet (5)

4. Technology (G.E.)
   CSE 129. Science, Computing and Society (2)

E. Visual and Performing Arts (13 units)

1. Art Appreciation (G.E.)
   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 370. Music for Elementary Classroom Teachers (3)

3. Theatre Activity
   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)

4. Visual Arts Activity
   A minimum of three units chosen from:
   ART 395. Art in the Classroom (3)
   ART 400. Teaching Art in the Elementary Classroom (4)

F. Physical Education and Health (10 units)

1. Physical Education (G.E.)
   Two units chosen from:
   KINE 101. Individual and Dual Activities (2)
   KINE 114. Physical Fitness and Conditioning Activities (2)
   KINE 120. Combative and Martial Arts Activities (2)
   KINE 121. Team Activities (2)
   KINE 137. Aquatic Activities (2)
   KINE 147. A Fitness Odyssey (2)
   KINE 149. Independent Activity Project (2)
   KINE 150. Dance Activities (2)

2. Physical Fitness (G.E.)
   KINE 205. Foundations for Lifetime Fitness and Wellness (2)

3. Movement Skills
   Four units chosen from:
   DAN 481. Creative Dance in the Classroom (4)
   KINE 352. Movement for Children (4)

4. Health
   HSCI 100. Concepts in Health (2)
   Note: Students must maintain a "C-" or better in this course.

G. Human Development (10 units)

1. Child Development (6 units)
   Students must choose 6 units from A or B below:
   A. HD 240. Introduction to Child Development (4)
   Note: Students must maintain a "C-" or better in this course.
   Two units to be taken concurrently with or after HD 240 chosen from:
   HD 246. Observation and Methods in Child Development: Middle Childhood (2)
   HD 247. Observation and Methods in Child Development: Adolescence (2)
   B. EELB 301. Growth and Development in Socio-Educational Contexts (6)
   Note: Students must maintain a "C-" or better in this course.

2. Exceptional Child
   PSYC 350. Development of Exceptional Children (4)
   Note: Students must maintain a "C-" or better in this course.

H. Additional General Education Requirements (20 units)

1. Critical Thinking (G.E.)
   Four units chosen from:
   COMM 180. Critical Thinking Through Argumentation (4)
   HON 104A. Language and Meaning: Critical Thinking (4)
   (open only to Honors Program students)
   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 Problem Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)

2. Philosophy (G.E.)
Four units chosen from:
HON 104B. Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)
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 103. College Arabic III (4)
ARAB 201. Intermediate Arabic I (4)
ARAB 202. Intermediate Arabic II (4)
ARAB 203. Intermediate Arabic III (4)
ARAB 214. Conversation in Arabic (4)
ASL 103. American Sign Language III (4)
ASL 201 American Sign Language IV (4)
ASL 202 American Sign Language V (4)
ASL 203 American Sign Language VI (4)
CHIN 103. College Chinese III (4)
CHIN 201 Second Year Chinese I (4)
CHIN 202 Second Year Chinese II (4)
CHIN 203 Second Year Chinese III (4)
FLAN 103. Language Study III (4)
FREN 103. College French III (4)
FREN 200. Culture and Communication (4)
FREN 201. Culture and Communication II (4)
FREN 202. Culture and Communication III (4)
GER 103. College German III (4)
GER 212. Composition (4)
GER 214. Conversation (4)
GER 216. Introduction to Literary Texts (4)
JAPN 103. College Japanese III (4)
JAPN 201 Intermediate Japanese I (4)
JAPN 202 Intermediate Japanese II (4)
JAPN 203 Intermediate Japanese III (4)
KOR 103. College Korean III (4)
KOR 201 Second Year College Korean I (4)
KOR 202 Second Year College Korean II (4)
KOR 203 Second Year College Korean III (4)
SPAN 103. College Spanish III (4)
SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 203 Intermediate Spanish III (4)
SPAN 214. Conversation

Note: A placement test must be taken prior to registering for SPAN 101, 102, or 103. For more information about the Spanish Placement Test or offerings in foreign languages, contact the Department of World Languages and Literatures (909) 537-5847, UH-314.

4. Integrative Capstone in the Humanities (G.E.)
Four units chosen from:
HUM 319. Myth, Metaphor and Symbol (4)
HUM 325.* Perspectives on Gender (4)
HUM 328.* Asian Cultural Traditions (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)

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
Four units chosen from:
SSCI 300. Nonwestern World (4)
SSCI 304. Contemporary Latin America (4)
SSCI 315. Cultural Adaptation: The Quest for Survival (4)
SSCI 316.* Race and Racism (4)
SSCI 320. Understanding Capitalism (4)
SSCI 321. Urbanization and the Urban Environment (4)
SSCI 325.* Perspectives on Gender (4)
SSCI 345. Religious Expression in America (4)
SSCI 350.* Roots of Modern Racism in America (4)

*Meets the Multicultural Requirement for GE. Students should choose one * course in category H4 or H5. Credit can be received once for Hum 325, NSCI 325, or SSCI 325.

I. Additional Liberal Studies Requirements (8 units)
1. Assessment (4 units)
HUM 197. Assessment Preparation I in Liberal Studies (1)
Note: Must be taken during the first quarter of enrollment.
HUM 397. Assessment Preparation II in Liberal Studies (1)
HUM 597. Senior Assessment in Liberal Studies (2)
Note: Must be taken in either of last two quarters before graduation.

2. Classroom Experiences (4 units)
EELB 230. Introduction to Education (4)

J. Concentration (16-18 units)
The concentration requires a minimum of 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. Students should get a list of courses approved for use or required in concentration from the Liberal Studies Office or at the website liberalstudies.csusb.edu/Tracks/concentrations:

Anthropology† Geology†
Art German†
Art, Music and Theatre† Health Science for Teachers for Teachers
Biology History
Chemistry Human Development
Chicano/a and Latin American Studies†
Latino/a Studies† Mathematics
Communication Studies Music
Computer Science Physics
Dance Political Science
Economics Psychology
Education Sociology†
English Spanish†
French† Special Education
Gender/Sexuality Studies Theatre Arts

Geography

Note:
- Courses must be approved by the Liberal Studies Office.
- Courses noted with an (†) are in areas that do not meet the required minimum of specific coursework.
- Students should consult with an advisor for specific course requirements.

Department of World Languages and Literatures (909) 537-5847, UH-314.
B.A. IN LIBERAL STUDIES - INTEGRATED TRACK (B.A. and Multiple Subject Credential)

Requirements (201 units)

Total units required for graduation: 201

SUBJECT MATTER PROGRAM (157 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 TRACK 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.

2. 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), CE-114.

3. Grades in categories A (with exception of A1 and A4), B, D, E, F, G, and I must be a "C-" or better.

4. Grades in categories A1, A4, and C must be a "C" or better.

5. Grades in categories J, K, and L must be a "B-" or better with an overall GPA of 3.0 in those categories.

6. 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,
   g. Submission of a Program Admission File (PAF) to the Credentials Office, CE-102, at least one quarter prior to enrollment in Credential courses (Phase I);

7. 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 during the first quarter of enrollment. After 90 units are completed, students must enroll in HUM 397 and HUM 597 in either of their last two quarters before graduation. Transfer students must enroll in HUM 197 during the first quarter of enrollment if they have not had an equivalent course elsewhere, followed by HUM 397 the next quarter and HUM 597 in either of their last two quarters before graduation;

8. Requirements for admission to supervision (EELB 540A):
   a. Passing score on CBEST;
   b. Passing score on California Subject Examination for Teachers (CSET);
   c. Completion of Phase I courses (EELB 312, 313, 315, 317, and 519);

9. Additional requirements for the Multiple Subject Credential
   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 - Integrated Track:

A. Reading, Language, and Literature (24 units)
   1. Freshman Composition (G.E.)
      Four units chosen from:
      ENG 104A. Stretch Composition III (4)
      ENG 104B. Stretch Composition III for Multilingual Students (4)
      ENG 106. Accelerated Stretch Composition II (4)
      ENG 107. Advanced First-Year Composition (4)

   2. Oral Communication (G.E.)
      COMM 120. Oral Communication (4)
      HON 104C. Language and Meaning: Oral Communication (4)
      (open only to Honors Program students)

   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)
      TA 212. Oral Interpretation of Literature (4)

   4. Upper Division Writing (G.E.)
      This requirement may be met by passing a proficiency examination. No unit credit is awarded for passing the examination.
      EDUC 306. Expository Writing for Education (4)
      ENG 306. Expository Writing (4)
      HON 306. Expository Writing (4) (open only to Honors Program students)
      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)

   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)

   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)

2. World Civilization II
   HIST 142. World Civilizations II, the Civilizations of the East and the West (4)

3. American Civilization (G.E.)
   Four units chosen from:
   HIST 146. American Civilization (4)
   HIST 200. United States History to 1877 (4)

   PSCI 203. American Government (4)
5. California History (4)
   HIST 270. California History (4)
6. Economics (2)
   ECON 311. Economics in the Elementary and Middle School (4)
7. Geography (2)
   GEOG 300. Geography in the Elementary and Middle School Classroom (4)
C. Mathematics (18 units)
1. Ideas of Mathematics (G.E.)
   MATH 115. The Ideas of Mathematics (4)
2. Fundamental Concepts of Mathematics for Educators
   MATH 301A. Fundamental Concepts of Mathematics for Educators: Fundamentals of Arithmetic and Geometry (4)
   MATH 301B. Fundamental Concepts of Mathematics for Educators: Transition from Concrete to Abstract in Algebra and Geometry (4)
   MATH 301C. Fundamental Concepts of Mathematics for Educators: 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)
1. Life Sciences (G.E.)
   BIOL 100. Topics in Biology (5)
2. Physical Science (10 units) (G.E.)
   CHEM 100. Chemistry in the Modern World (5)
   PHYS 100. Physics in the Modern World (5)
3. Earth and Space Science (G.E.)
   ASTR 311. A Cosmic Perspective of Earth (5)
   GEOG 311. The Dynamic Earth (5)
   GEOL 309. Earth: The Blue Planet (5)
4. Technology (G.E.)
   CSE 129. Science, Computing and Society (2)
E. Visual and Performing Arts (13 units)
1. Art Appreciation (G.E.)
   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 370. Music for Elementary Classroom Teachers (3)
3. Theatre Activity
   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)
4. Visual Art Activity
   A minimum of three units chosen from:
   ART 395. Art in the Classroom (3)
   ART 400. Teaching Art in the Elementary Classroom (4)
F. Physical Education and Health (10 units)
1. Physical Education (G.E.)
   Two units chosen from:
   KINE 101. Individual and Dual Activities (2)
   KINE 114. Physical Fitness and Conditioning Activities (2)
   KINE 120. Combative and Martial Arts Activities (2)
   KINE 121. Team Activities (2)
   KINE 137. Aquatic Activities (2)
   KINE 147. A Fitness Odyssey (2)
   KINE 149. Independent Activity Project (2)
   KINE 150. Dance Activities (2)
2. Physical Fitness (G.E.)
   KINE 205. Foundations for Lifetime Fitness and Wellness (2)
3. Movement Skills
   Four units chosen from:
   DAN 481. Creative Dance in the Classroom (4)
   KINE 352. Movement for Children (4)
4. Health
   HSCI 100. Concepts in Health (2)
G. Human Development (18 units)
1. Child Development (6 units)
   Students must choose 6 units from A or B below:
   A. HD 240. Introduction to Child Development (4)
      Note: Students must maintain a "C-" or better in this course.
      Two units to be taken concurrently with or after HD 240 chosen from:
      HD 246. Observation and Methods in Child Development: Middle Childhood (2)
      HD 247. Observation and Methods in Child Development: Adolescence (2)
   B. EELB 301. Growth and Development in Socio-Educational Contexts (6)
      Note: Students must maintain a "C-" or better in this course.
2. Exceptional Child
   PSYC 350. Development of Exceptional Children (4)
      Note: Students must maintain a "C-" or better in this course.
4. Integrative Capstone in the Humanities (G.E.)
   Four units chosen from:
   HUM 319. Myth, Metaphor and Symbol (4)
   HUM 325.* Perspectives on Gender (4)
   HUM 328.* Asian Cultural Traditions (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)
5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
   Four units chosen from:
   SSCI 300. Nonwestern World (4)
   SSCI 304. Contemporary Latin America (4)
   SSCI 315. Cultural Adaptation: The Quest for Survival (4)
   SSCI 316.* Race and Racism (4)
   SSCI 320. Understanding Capitalism (4)
   SSCI 321. Urbanization and the Urban Environment (4)
   SSCI 325.* Perspectives on Gender (4)
   SSCI 345. Religious Expression in America (4)
   SSCI 350.* Roots of Modern Racism in America (4)
   *Meets the multicultural/gender requirement for G.E. Students should choose one * course in either categories G4 or G5. Credit can be received for either HUM 325 or SSCI 325 but not both.
H. Additional General Education Requirements (12 units)
1. Critical Thinking (G.E.)
   Four units chosen from:
   COMM 180. Critical Thinking Through Argumentation (4)
   HON 104A. Language and Meaning: Critical Thinking (4)
   (open only to Honors Program students)
   MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
   PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)  
PSYC 105. Critical Thinking Through Problems Analysis (4)  
SOC 180. Critical Thinking About Social Problems (4)

2. Philosophy (G.E.)

Four units chosen from:
HON 104B. Language and Meaning: Introduction to Philosophy (4) (open only to Honors Program students)  
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 103. College Arabic III (4)  
ARAB 201. Intermediate Arabic I (4)  
ARAB 202. Intermediate Arabic II (4)  
ARAB 203. Intermediate Arabic III (4)  
ARAB 214. Conversation in Arabic (4)  
ASL 103. American Sign Language III (4)  
ASL 201. American Sign Language IV (4)  
ASL 202. American Sign Language V (4)  
ASL 203. American Sign Language VI (4)  
CHIN 103. College Chinese I (4)  
CHIN 201. Second Year College Chinese I (4)  
CHIN 202. Second Year College Chinese II (4)  
CHIN 203. Second Year College Chinese III (4)  
FLAN 103. Language Study III (4)  
FREN 103. College French III (4)  
FREN 200. Culture and Communication (4)  
FREN 201. Culture and Communication II (4)  
FREN 202. Culture and Communication III (4)  
GER 103. College German I (4)  
GER 121. Composition (4)  
GER 141. Conversation (4)  
GER 160. Introduction to Literary Texts (4)  
JAPN 103. College Japanese I (4)  
JAPN 201. Intermediate Japanese I (4)  
JAPN 202. Intermediate Japanese II (4)  
JAPN 203. Intermediate Japanese III (4)  
KOR 103. College Korean I (4)  
KOR 201. Second Year College Korean I (4)  
KOR 202. Second Year College Korean II (4)  
KOR 203. Second Year College Korean III (4)  
SPAN 103. College Spanish I (4)  
SPAN 201. Intermediate Spanish I (4)  
SPAN 202. Intermediate Spanish II (4)  
SPAN 203. Intermediate Spanish III (4)  
SPAN 214. Conversation (4)

Note: A placement test must be taken prior to registering for SPAN 101, 102, or 103. For more information about the Spanish Placement Test or offerings in foreign languages, contact the Department of World Languages and Literatures (909) 537-5847, UH-314.

I. Additional Liberal Studies Requirements (8 units)

1. Assessment (4 units)
   HUM 197. Assessment Preparation I in Liberal Studies (1)  
   Note: Must be taken during the first quarter of enrollment.  
   HUM 397. Assessment Preparation II in Liberal Studies (1)  
   Note: Must be taken in either of last two quarters before graduation.

2. Classroom Experiences (4 units)
   EELB 230. Introduction to Education (4)

Multiple Subject Credential Program (48 units)

J. Phase I (16 units)
1. EELB 312. Family, Culture and Schooling (4)  
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)  
5. EELB 520B. Teaching Performance Assessment Seminar: Designing Instruction (1)

K. Phase II (16 units)
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 520C. Teaching Performance Assessment Seminar: Assessing Student Learning (1)  
5. EELB 540A. Supervised Student Teaching in Multiple Subjects I (6)

L. Phase III (16 units)
1. EELB 520A. Teaching Performance Assessment Seminar: Subject Specific Pedagogy (1)  
2. EELB 520D. Teaching Performance Assessment Seminar: Culminating Teaching Experience (1)  
3. EELB 532. Science/Health Curriculum and Pedagogy (4)  
4. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)  
5. EELB 540B. Supervised Student Teaching in Multiple Subjects II (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)  
E. Visual and Performing Arts (13 units)  
F. Physical Education and Health (10 units)  
G. Human Development (10 units)  
H. Additional General Education (GE) Requirements (20 units)  
I. Additional Liberal Studies Requirements (8 units)  
J. Spanish Studies (21 units)

Requirements for the B.A. in Liberal Studies - Spanish Studies Track:

A. Reading, Language, and Literature (28 units)
1. Freshman Composition (G.E.)

Four units chosen from:
ENG 104A. Stretch Composition III (4)  
ENG 104B. Stretch Composition III for Multilingual Students (4)  
ENG 106. Accelerated Stretch Composition II (4)  
ENG 107. Advanced First-Year Composition (4)  

2. Oral Communication (G.E.)
   COMM 120. Oral Communication (4)
   HON 104C. Language and Meaning: Oral Communication (4)
   (open only to Honors Program students)
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)
   TA 212. Oral Interpretation of Literature (4)
4. Upper Division Writing (G.E.)
   Four units chosen from:
   EDUC 306. Expository Writing for Education (4)
   ENG 306. Expository Writing (4)
   HON 306. Expository Writing (open only to Honors Program students)
   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.
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)
2. World Civilization II
   HIST 142. World Civilizations II, the Civilizations of the East and the West (4)
3. American Civilization (G.E.)
   Four units chosen from:
   HIST 146. American Civilization (4)
   HIST 200. United States History to 1877 (4)
   PSCI 203. American Government (4)
5. California History
   HIST 270. California History (4)
6. Economics
   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)
1. Ideas of Mathematics (G.E.)
   MATH 115. The Ideas of Mathematics (4)
2. Fundamental Concepts of Mathematics for Educators
   MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamentals of Arithmetic and Geometry (4)
   MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)
   MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)
3. Problem Solving in Mathematics
   MATH 308. Problem Solving Through Theory and Practice (2)
   Note: All MATH courses must be passed with a grade of "C-" or better.
D. Science (22 units)
1. Life Sciences (G.E.)
   BIOL 100. Topics in Biology (5)
2. Physical Science (G.E.)
   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:
   ASTR 311. A Cosmic Perspective of Earth (5)
   GEOG 311. The Dynamic Earth (5)
   GEOL 309. Earth: The Blue Planet (5)
4. Technology (G.E.)
   CSE 129. Science, Computing and Society (2)
E. Visual and Performing Arts (13 units)
1. Art Appreciation (G.E.)
   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 370. Music for Elementary Classroom Teachers (3)
3. Theatre Activity
   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)
4. Visual Art Activity
   A minimum of three units chosen from:
   ART 395. Art in the Classroom (3)
   ART 400. Teaching Art in the Elementary Classroom (4)
F. Physical Education and Health (10 units)
1. Physical Education (G.E.)
   Two units chosen from:
   KINE 101. Individual and Dual Activities (2)
   KINE 114. Physical Fitness and Conditioning Activities (2)
   KINE 120. Combative and Martial Arts Activities (2)
   KINE 121. Team Activities (2)
   KINE 137. Aquatic Activities (2)
   KINE 147. A Fitness Odyssey (2)
   KINE 149. Independent Activity Project (2)
   KINE 150. Dance Activities (2)
2. Physical Fitness (G.E.)
   KINE 205. Foundations for Lifetime Fitness and Wellness (2)
3. Movement Skills
   Four units chosen from:
   DAN 481. Creative Dance in the Classroom (4)
   KINE 352. Movement for Children (4)
4. Health
   HSCI 100. Concepts in Health (2)
   Note: Students must maintain a "C-" or better in this course.
**G. Human Development (10 units)**

1. Child Development (6 units)
   - Students must choose 6 units from A or B below:
     
     **A.** HD 240. Introduction to Child Development (4)
     
     **Note:** Students must maintain a "C-" or better in this course.
     
     Two units to be taken concurrently with or after HD 240 chosen from:
     
     HD 246. Observation and Methods in Child Development: Middle Childhood (2)
     HD 247. Observation and Methods in Child Development: Adolescence (2)

     **B.** EELB 301. Growth and Development in Socio-Educational Contexts (6)
     
     **Note:** Students must maintain a "C-" or better in this course.

2. Classroom Experiences (4 units)
   - EELB 230. Introduction to Education (4)

**H. Additional General Education Requirements (20 units)**

1. Critical Thinking (G.E.)
   - Four units chosen from:
     
     COMM 180. Critical Thinking Through Argumentation (4)
     HON 104A. Language and Meaning: Critical Thinking (4)
     MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
     PHIL 105. Critical Thinking Through Argument Analysis (4)
     PHIL 200. Critical Thinking Through Symbolic Logic (4)
     PSYC 105. Critical Thinking Through Problems Analysis (4)
     SOC 180. Critical Thinking About Social Problems (4)

2. Philosophy (G.E.)
   - Four units chosen from:
     
     HON 104B. Language and Meaning: Introduction to Philosophy (4)
     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:
     
     SPAN 212. Composition (4)
     SPAN 213. Composition for Heritage/Native Speakers (4)
     HUM 335. The Origin and Contemporary Role of Latino Culture (4)
     ANTH 354. Cultures of Mexico and Central America (4)
     ANTH 356. Cultures of South America (4)
     ANTH 388. Language and Culture (4)

4. Integrative Capstone in the Humanities (G.E.)
   - Students must maintain a grade of "C" or above in this course.
     
     HIST 390. History of Modern Mexico (4)
     HIST 391. Chicano History (4)
     HIST 470. Modern Latin America (4)
     MUS 351. Latin American Music (4)

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
   - SSCI 304. Contemporary Latin America (4)

**I. Additional Liberal Studies Requirements (8 units)**

1. Assessment (4 units)
   - HUM 197. Assessment Preparation I in Liberal Studies (1)
     
     **Note:** Must be taken during the first quarter of enrollment.
   - HUM 397. Assessment Preparation II in Liberal Studies (1)
   - HUM 597. Senior Assessment in Liberal Studies (2)
     
     **Note:** Must be taken in either of last two quarters before graduation.

2. Classroom Experiences (4 units)
   - EELB 230. Introduction to Education (4)

**J. Spanish Studies (21 units)**

1. Upper division Spanish language skills
   - SPAN 302. Theory and Practice in Composition (4)
   - SPAN 295. Intermediate Skills Assessment (1)
   - SPAN 415. Comparative Linguistics: Spanish/English (4)
     
     **Note:** Students must maintain a grade of "C-" or above in this course.

2. Spanish Studies Electives
   - Twelve units chosen from any upper-division Spanish classes not taken under another category and from the following:
     
     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. Chicano Art (4)
     FLAN 320. Masterpieces of Literature (4)

     **Note:** Must be taken during the first quarter of enrollment.

**B.A. IN LIBERAL STUDIES - ARTS AND LETTERS TRACK (Non-credential) Requirements (77 units)**

**Total units required for graduation: 180**

**Requirements for the B.A. in Liberal Studies - Arts and Letters Track:**

1. **Arts and Letters Interdisciplinary Concentration Requirements (36 units)**
   - Thirty-six units required to be selected from one of the following five groupings of courses offered by the departments and disciplines listed. Within the selected grouping, no more than 20 units may be taken in any one discipline and a minimum of 18 units must be at the 300-level or above. Courses must be selected and approved with the assistance of an advisor. A list of recommended courses approved for use in each category and department can be obtained from the Liberal Studies program office.

   a. Fine Arts: Art, Dance, Music, Theatre
   b. Literature: English, World Languages and Literatures
   c. Languages and Linguistics: English and Foreign Languages
   d. Media Arts: Communications Media, Graphic Design, Music Technology, Photography
   e. Humanities: Must include courses from a minimum of three of the following areas: Communication Studies, English, Humanities, Philosophy, World Languages and Literatures, or any of the areas in Fine Arts (art, dance, music, theatre)

2. **Skills Requirements (12 units)**
   - A minimum of four units from each of the following three categories:

   1. **Communication Skills**
      - Four units chosen from:
        - COMM 221. Small Group Communication (4)
        - COMM 225. Fundamentals of Interpersonal Communication (4)
        - COMM 240. Writing for Media (4)
        - COMM 308. Argumentation (4)
COMM 311. Business and Professional Communication (4)
COMM 312. Persuasion (4)
COMM 344. Public Relations Communication (4)
ENG 240. Writing in the Public Sphere (4)
ENG 316. Introduction to Creative Writing: Specialized Genres (4)
ENG 317. Introduction to Creative Writing: Poetry (4)
ENG 318. Introduction to Creative Writing: Fiction (4)
ENG 417. Intermediate Creative Writing: Poetry (4)
ENG 418. Intermediate Creative Writing: Fiction (4)
ENG 507. Advanced Creative Writing: Poetry (4)
ENG 508. Advanced Creative Writing: Fiction (4)
ENG 513. Advanced Creative Writing: Specialized Genres (4)
ENG 543. Literary Publications (4)
MGMT 350. Administrative Communication (4)

2. Computer Skills
A minimum of four units chosen from:
ART 123. Introduction to Art and Technology (4)
ART 232. Principles of Design Management (4)
ART 238. Production of Visual Information Design (4)
ART 320. Digital Image Editing (5)
ART 322. Web Design (5)
ART 326. Interactive Multi-media Design (5)
CSE 133. Using Word Processors and Presentation Software (2)
CSE 134. Using Spreadsheet and Database Software (2)
CSE 201. Computer Science I (4)
CSE 298. Application Software Topics (2)
ECTS 519. Computer Applications for Career and Technical Educators (4)
GEOG 202. Introduction to Geographical Information Systems and Cartography (5)
HSCI 273. Software Applications in the Health Sciences (4)
IST 101. Introduction to Information Technology (4)

3. Research Techniques Skills:
A minimum of four units chosen from:
COMM 400. Communication Research Methodologies (4)
CJUS 311. Research Methods in Criminal Justice (4)
CJUS 312. Statistics in Criminal Justice (4)
ECON 250. Statistics for Economists (4)
GEOG 305. Geographical Statistics and Research Methods (4)
HSCI 468. Research Methodology in Health Science (4)
MATH 262. Applied Statistics (4)
MATH 305. Statistics: Hypothesis Testing and Estimation (4)
MKTG 416. Marketing Research (4)
PHIL 306. Inductive Logic and the Probability of Calculus (4)
PSCI 375. Introduction to Political Science Research (4)
PSYC 210. Psychological Statistics (5)
SCM 210. Applied Business Statistics (4)
SOC 307. Social Research (5)
GSS 300. Feminist Research Methods (4)

3. Minor Field (Minimum of 24 units)
The Minor must include a minimum of 16 units at the 300-level or above. (See Page 58-59 of the University Bulletin for a listing of minors available and where to find a listing of the courses required in each.) Minors vary in size and range from 24-42 units.

4. Culminating Experience (5 units)
1. HUM 497. Senior Assessment (1) to be taken during last quarter before graduation.
2. A four-unit Independent Study Project to be completed in one of the disciplines used for the Concentration (#1) or Minor (#3) areas. This project should result in a significant written paper reporting on the research project carried out and should include a concluding essay relating the research topic to other courses and subjects in the area of Concentration or Minor and summarizing the student’s accomplishments in the Liberal Studies major. Students will enroll in the appropriate independent study course offered by the department of the faculty member who has agreed to supervise this project.

5. Free Electives
To be used if needed to reach minimum of 180 total units for the BA degree.
MANAGEMENT

Department of Management
Jack Brown Hall, Room 461
(909) 537-5731 management.csusb.edu

FACULTY: Melissa Bakeman-Hartmann, G. R. Bassirya (Emeritus),
Shel Bockman, Brenna Coates, Foad Derakhshan,
Donald Drost, Isaura Flores, Vinip Gupta, Lee Hanson (Emeritus),
Paul Kirwan, Janice Loutzenhiser (Emeritus), Clark Molstad (Emeri-
tus), Kristie Ogilvie, Lloyd Peake (Emeritus), Gary Patterson,
Kathie Pelletier, Rangfeng Stella Qiu, Ernesto Reza,
Cynthia Schreihans, Craig Seal, Michael Stull

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: Entrepreneurial Management, under the B.A. in Human Resources Management, and the B.S. in International Business. The details of these programs are listed under Administration on Page 74. The Master of Business Administration can be found on Page 387. 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. (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)

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 develop 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. Graded A, B, C/no credit. Prerequisites: Prerequisite: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) (4 units)

330. Legal Environment of Business
Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business activity; statutes and significant cases involving business; role of business in alleviating society's problems; problems and issues of current concern regarding women and minorities in management, business and society in a global context. Prerequisite: the upper-division writing requirement. (4 units)

335. Business and Society
Evaluation of American business systems; 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, business and society in a global context. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Managing Across Borders
Identification of the diverse factors and actors that shape the global business environment. Comparative analysis of management practices in various cultures with emphasis on sociocultural, political and economic influences. Balancing of local responsiveness and global integration, and decision-making skills for managing across borders are emphasized. 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)

408. Managing in Europe
Identification of the diverse factors and actors that shape the business environment in one or more nations in Europe. Comparative analysis of management practices and leadership challenges and approaches for navigating sociocultural, political and economic contexts. (4 units)

442. Small Business Management
Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. (4 units)

451. Organization and Management Theory
Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. Prerequisite: MGMT 302 or PSYC 302. (4 units)

452. Leading Effectively and Ethically
Relevant theories and concepts for leading individuals and groups effectively and for developing ethical awareness to respond appropriately to ethical dilemmas. 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. Prerequisites: MGMT 302 or PSYC 302, and the upper-division writing requirement. (4 units)

456. Developing an Effective Workforce
Theory and practice of employee selection, training, and performance appraisal. Prerequisite: MGMT 455 or PSYC 355. (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
Examination of the dynamics of task-oriented groups in American and international environments, utilizing both conceptual and experiential learning. Prerequisite: MGMT 302 or PSYC 302. (4 units)

470. Strategic Human Resource Management
Capstone course integrating human resource management materials acquired through the required concentration courses and addressing the strategic role of HR professionals in organizations. Prerequisites: MGMT 455; 456 or PSYC 355; and MGMT 458. (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, management, marketing, public policy, and supply chain management. Coverage includes competitive strategy for global, national and regional/local business and managerial concerns regarding social and environmental issues. 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. Business Consulting
Supervised consulting assignments designed to provide meaningful business assistance to businesses. Prerequisites: senior status, 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, antitrust law and criminal law with respect to technology and intellectual property. Prerequisites: MGMT 230 and 330. (4 units)

526. Global Entrepreneurship
Entrepreneurial process in a global context as it relates to recognizing ideas, marshaling resources, developing networks and creating the strategy for a new cross-border venture. (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. New Venture Opportunity Analysis
Study of the 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)

544. New Venture Development
Introduction to the process of developing a new venture concept. Examines key issues in new venture creation, including the role of the entrepreneur in transitioning ideas to business opportunities. Special emphasis on developing a rapid opportunity analysis, identifying a sustainable business model, and business planning. (4 units)

545. New Venture 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. Prerequisites: MGMT 543 and 544. (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: senior standing preferred, consent of instructor and the department's internship coordinator. (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. (2-4 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. Baccalaureate Reflective Essay
Submission of a reflective essay based on departmental guidelines. Prerequisites: completion of or concurrent enrollment in all courses in the student's area of concentration. (0 units)
MARKETING

Department of Marketing
Jack Brown Hall, Room 458
(909) 537-5749  marketing.csusb.edu

FACULTY: Haakon Brown, Fred Hebein (Emeritus), Vic Johar (Emeritus), Eric Newman (Chair), Nabil Razzouk, Jason Ryan, 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 74 and the Master of Business Administration can be found on Page 387. 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)

**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 in class. 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. Prerequisites: MKTG 305 and the upper-division writing requirement. (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: the upper-division writing requirement and junior standing. (4 units)

**436. Marketing Decision-Making**
Reinforcing concepts learned in Marketing Principles, students will analyze, evaluate and develop product, price, promotion and physical distribution marketing programs. Emphasis is placed on analytical techniques and case studies to develop effective student decision-making skills in the major functional areas of marketing. 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. 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. Prerequisites: MKTG 305 and consent of instructor. (4 units)

**470. International Marketing Management**
Marketing strategies for developing global markets including the cultural, political, and economic infrastructure of foreign markets and their impact on traditional marketing decisions. Prerequisite: MKTG 305 or consent of instructor. (4 units)
496. Marketing Planning and Strategy
An integrative approach to strategic marketing management including the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs and an applied knowledge of SPSS or any other data analysis software package. Prerequisites: MKTG 410, 416, 436 and the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Formerly a topic under MKTG 590. (4 units)

550. Advanced Sports Marketing Planning and Strategy
An integrative approach to strategic sports marketing management providing theoretical and practical aspects of marketing management in the sports industry. Topics include 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. Prerequisite: MKTG 525 and the upper-division writing requirement or consent of instructor. (4 units)

555. Advanced Entertainment Marketing Planning and Strategy
An integrative approach to strategic entertainment marketing management providing theoretical and practical aspects of marketing management in the entertainment industry. Topics include 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. Prerequisites: MKTG 525 and the upper-division writing requirement or consent of instructor. (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. Prerequisite: junior standing. (4 units)

565. Logistics
Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Formerly MKTG 450. Prerequisite: MKTG 305. (4 units)

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. 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 eight units from the 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. (2 or 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. (1-5 units)
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)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>CSE 201. Computer Science I (4)</td>
</tr>
<tr>
<td>2.</td>
<td>MATH 211. Basic Concepts of Calculus (4)</td>
</tr>
<tr>
<td>3.</td>
<td>MATH 212. Calculus II (4)</td>
</tr>
<tr>
<td>4.</td>
<td>MATH 213. Calculus III (4)</td>
</tr>
<tr>
<td>5.</td>
<td>MATH 241. Problem Solving in Calculus (2)</td>
</tr>
<tr>
<td>6.</td>
<td>MATH 251. Multivariable Calculus I (4)</td>
</tr>
<tr>
<td>7.</td>
<td>MATH 252. Multivariable Calculus II (4)</td>
</tr>
<tr>
<td>8.</td>
<td>MATH 270. Elementary Differential Equations (4)</td>
</tr>
</tbody>
</table>

**Upper-division requirements (32 units)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MATH 329. Transformation Geometry (4)</td>
</tr>
<tr>
<td>2.</td>
<td>MATH 331. Linear Algebra (4)</td>
</tr>
<tr>
<td>3.</td>
<td>MATH 345. Number Theory and Proof (4)</td>
</tr>
<tr>
<td>4.</td>
<td>MATH 355. Analysis and Proof (4)</td>
</tr>
<tr>
<td>5.</td>
<td>MATH 372. Combinatorics (4)</td>
</tr>
<tr>
<td>6.</td>
<td>MATH 465. Probability Theory (4)</td>
</tr>
<tr>
<td>7.</td>
<td>MATH 545. Abstract Algebra I (4)</td>
</tr>
<tr>
<td>8.</td>
<td>MATH 553. Analysis I (4)</td>
</tr>
</tbody>
</table>

**Electives (12 units)**

1. Twelve units of mathematics electives chosen from the following in consultation with an advisor:
   - MATH 320. Mathematical Interest Theory (4)
   - MATH 411. Introduction to Mathematical Logic (4)
   - MATH 455. Fourier Analysis (4)
   - MATH 470. Ordinary Differential Equations (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 531. Advanced Linear Algebra (4)
   - MATH 546. Abstract Algebra II (4)
   - MATH 554. Analysis II (4)
   - MATH 555. Introduction to Point-Set Topology (4)
   - MATH 557. Complex Variables (4)
   - MATH 565. Mathematical Statistics (4)
   - MATH 570. Partial Differential Equations (4)
   - MATH 578. Introduction to Mathematical Models (4)
   - MATH 595D. Independent Study (4)

### B.A. IN MATHEMATICS - TEACHING TRACK

#### Requirements (89 units)

**Total units required for graduation: 180**

#### Requirements for the B.A. in Mathematics - Teaching Track:

**Lower-division requirements (25 units)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MATH 199. Technology in Math Education through Problem Solving (3)</td>
</tr>
<tr>
<td>2.</td>
<td>MATH 211. Basic Concepts of Calculus (4)</td>
</tr>
<tr>
<td>3.</td>
<td>MATH 212. Calculus II (4)</td>
</tr>
<tr>
<td>4.</td>
<td>MATH 213. Calculus III (4)</td>
</tr>
<tr>
<td>5.</td>
<td>MATH 241. Problem Solving in Calculus (2)</td>
</tr>
<tr>
<td>6.</td>
<td>MATH 251. Multivariable Calculus I (4)</td>
</tr>
<tr>
<td>7.</td>
<td>MATH 252. Multivariable Calculus II (4)</td>
</tr>
</tbody>
</table>
B.A. IN MATHEMATICS - INTEGRATED TEACHING TRACK

Requirements (129 units)

Total units required for graduation: 203

Requirements for the B.A. in Mathematics - Integrated Teaching Track:

This program allows prospective single-subject teachers the opportunity to earn their Bachelor of Arts in Mathematics and Single Subject Credential concurrently. A full-time student can expect to complete the program within thirteen quarters. Students in this program may apply to the Single Subject Teaching Credential Program once they have reached junior status and satisfy the requirements listed below. Students must be accepted into the single subject teaching credential program prior to enrolling in supervision classes ESEC 550A, 550B and 550C.

Lower-division requirements (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. 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)

Upper-division requirements (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. Combinatorics (4)
6. MATH 399. Service Learning Experience in Mathematics (2)
7. MATH 465. Probability Theory (4)
8. 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 units)

1. Twelve units chosen from the following in consultation with an advisor:
   MATH 270. Elementary Differential Equations (4)
   MATH 320. Mathematical Interest Theory (4)
   MATH 411. Introduction to Mathematical Logic (4)
   MATH 455. Fourier Analysis (4)
   MATH 470. Ordinary Differential Equations (4)
   MATH 474. Numerical Methods (4)
   MATH 510. Topics in Mathematics (4)
   MATH 531. Advanced Linear Algebra (4)
   MATH 546. Abstract Algebra II (4)
   MATH 554. Analysis II (4)
   MATH 555. Introduction to Point-Set Topology (4)
   MATH 557. Complex Variables (4)
   MATH 570. Partial Differential Equations (4)
   MATH 576. Introduction to Mathematical Models (4)
   MATH 595D. Independent Study (4)

B.A. IN MATHEMATICS - INTEGRATED TEACHING TRACK

Requirements (129 units)

Total units required for graduation: 203

Requirements for the B.A. in Mathematics - Integrated Teaching Track:

This program allows prospective single-subject teachers the opportunity to earn their Bachelor of Arts in Mathematics and Single Subject Credential concurrently. A full-time student can expect to complete the program within thirteen quarters. Students in this program may apply to the Single Subject Teaching Credential Program once they have reached junior status and satisfy the requirements listed below. Students must be accepted into the single subject teaching credential program prior to enrolling in supervision classes ESEC 550A, 550B and 550C.

Lower-division requirements (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. 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)

Upper-division requirements (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. Combinatorics (4)
6. MATH 399. Service Learning Experience in Mathematics (2)
7. MATH 465. Probability Theory (4)
8. 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 units)

1. Twelve units chosen from the following in consultation with an advisor:
   MATH 270. Elementary Differential Equations (4)
   MATH 320. Mathematical Interest Theory (4)
   MATH 411. Introduction to Mathematical Logic (4)
   MATH 455. Fourier Analysis (4)
   MATH 470. Ordinary Differential Equations (4)
   MATH 474. Numerical Methods (4)
   MATH 510. Topics in Mathematics (4)
   MATH 531. Advanced Linear Algebra (4)
   MATH 546. Abstract Algebra II (4)
   MATH 554. Analysis II (4)
   MATH 555. Introduction to Point-Set Topology (4)
   MATH 557. Complex Variables (4)
   MATH 570. Partial Differential Equations (4)
   MATH 576. Introduction to Mathematical Models (4)
   MATH 595D. Independent Study (4)

B.A. IN MATHEMATICS - INTEGRATED TEACHING TRACK

Requirements (129 units)

Total units required for graduation: 203

Requirements for the B.A. in Mathematics - Integrated Teaching Track:

This program allows prospective single-subject teachers the opportunity to earn their Bachelor of Arts in Mathematics and Single Subject Credential concurrently. A full-time student can expect to complete the program within thirteen quarters. Students in this program may apply to the Single Subject Teaching Credential Program once they have reached junior status and satisfy the requirements listed below. Students must be accepted into the single subject teaching credential program prior to enrolling in supervision classes ESEC 550A, 550B and 550C.

Lower-division requirements (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. 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)

Upper-division requirements (52 units)

1. MATH 329. Transformation Geometry (4)
f. Successful completion of the California Basic Educational Skills Test (CBEST);
g. Two written recommendations from faculty members in the Department of Mathematics;
h. Advising session with and signature of a Secondary Education Faculty member on an advising form or attendance at a program advisory meeting to determine requirements of the program;
i. 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 in the written portion of the CBEST (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree);
j. In addition, the following criteria are considered: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education;
k. Submission of a Program Application File (PAF) to the Credentials Office, CE-102, at least one quarter prior to enrollment in Credential coursework.

2. Requirements for admission to supervision:
   a. Demonstration of Subject Matter Competency in mathematics by having completed 80% of units in mathematics applicable to the B.A. in Mathematics, Integrated Teaching Track;
   b. A grade point average of 2.67 in all baccalaureate course work;
   c. Completion of ESEC 405, ESEC 407, and MATH 399;
   d. 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.

3. Additional requirements for the Single Subject Credential:
   a. Current or valid CPR certification that includes Infant, Child, and Adult.

Also, note the following:

A. 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.

B. 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 HSCH 100 and ESPE 350.

C. 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.

B.S. IN MATHEMATICS

Requirements (102-120 units)
Total units required for graduation: 180-182

Requirements for the B.S. in Mathematics:

Lower-division requirements (30 units)
1. CSE 201. Computer Science I (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)

Upper-division requirements (32 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. Combinatorics (4)
6. MATH 465. Probability Theory (4)
7. MATH 545. Abstract Algebra I (4)
8. MATH 553. Analysis I (4)

Concentration (40-56 units)

Students must choose either the general track or one of the applied concentrations which follow:

General Track (41 units)

Lower-division requirement (5 units)
1. PHYS 221. General Physics I (5)

Electives (36 units)

1. Thirty-six units of mathematics electives selected from the following, with at least eight units chosen from 500-level courses.
   At least twelve units must be chosen from group A, and at least twelve units must be chosen from group B below.

  Group A (Applied Mathematics)
  MATH 320. Mathematical Interest Theory (4)
  MATH 455. Fourier Analysis (4)
  MATH 470. Ordinary Differential Equations (4)
  MATH 474. Numerical Methods (4)
  MATH 557. Complex Variables (4)
  MATH 565. Mathematical Statistics (4)
  MATH 570. Partial Differential Equations (4)
  MATH 576. Introduction to Mathematical Models (4)

  Group B (Pure Mathematics)
  MATH 411. Introduction to Mathematical Logic (4)
  MATH 480. Topics in History of Mathematics (4)
  MATH 510. Topics in Mathematics (4)
  MATH 529. Advanced Geometry (4)
  MATH 531. Advanced Linear Algebra (4)
  MATH 546. Abstract Algebra II (4)
  MATH 554. Analysis II (4)
  MATH 555. Introduction to Point-Set Topology (4)
  MATH 595D. Independent Study (4)

Concentration in Biology (56-58 units)

Lower-division requirements (27 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 (6)
5. CHEM 216. General Chemistry II (6)

Upper-division requirements (17 units)
1. BIOL 300. Cell Physiology (5)
2. MATH 470. Ordinary Differential Equations (4)
3. MATH 565. Mathematical Statistics (4)
4. MATH 576. Introduction to Mathematical Models (4)

Electives (12-14 units):

1. A minimum of eight units chosen from:
   BIOL 321. Evolution (4)
   BIOL 423. Genetics (5)
   BIOL 450. Ecology (5)
   BIOL 522. Population Genetics (4)
   BIOL 572. Virology (4)
   BIOL 573. Immunology (5)

2. Four units chosen from:
   MATH 320. Mathematical Interest Theory (4)
Concentration in Computer Science (40 units)

Lower-division requirement (4 units)
1. CSE 202. Computer Science II (4)

Upper-division requirements (8 units)
1. CSE 320. Programming Languages (4)
2. CSE 330. Data Structures (4)

Electives (28 units)
1. Twelve units chosen from:
   CSE 420. Computer Graphics (4)
   CSE 431. Algorithm Analysis (4)
   CSE 500. Introduction to Formal Languages and Automata (4)
   CSE 501. Introduction to Theory of Computation (4)
   CSE 512. Introduction to Artificial Intelligence (4)
   CSE 513. Advanced Artificial Intelligence (4)
   CSE 515. Automated Reasoning (4)
   CSE 520. Advanced Computer Graphics (4)
   CSE 524. Supercomputing and Visualization (4)
   CSE 535. Numerical Computation (4)
   CSE 555. Computer Organization (4)
   CSE 556. Introduction to Formal Methods, Models, and Languages (4)

2. Sixteen units of mathematics electives selected from the following with at least eight units chosen from 500-level courses:
   MATH 320. Mathematical Interest Theory (4)
   MATH 411. Introduction to Mathematical Logic (4)
   MATH 455. Fourier Analysis (4)
   MATH 470. Ordinary Differential Equations (4)
   MATH 474. Numerical Methods (4)
   MATH 475. Introduction to Point-Set Topology (4)
   MATH 500. Complex Variables (4)
   MATH 510. Advanced Geometry (4)
   MATH 511. Advanced Linear Algebra (4)
   MATH 515. Advanced Analysis (4)
   MATH 520. Advanced Computer Graphics (4)
   MATH 524. Supercomputing and Visualization (4)
   MATH 535. Numerical Computation (4)
   MATH 555. Computer Organization (4)
   MATH 556. Introduction to Formal Methods, Models, and Languages (4)

Concentration in Economics (40 units)

Lower-division requirements (8 units)
1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (12 units)
1. MATH 320. Mathematical Interest Theory (4)
2. MATH 565. Mathematical Statistics (4)
3. MATH 576. Introduction to Mathematical Models (4)

Electives (20 units)
1. Sixteen units chosen from:
   ECON 300. Intermediate Macroeconomics (4)
   ECON 302. Intermediate Microeconomics (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 480. Quantitative Methods in Economics (4)
   ECON 490. Introduction to Econometrics (4)

2. Four units chosen from:
   MATH 411. Introduction to Mathematical Logic (4)
   MATH 455. Fourier Analysis (4)
   MATH 470. Ordinary Differential Equations (4)
   MATH 474. Numerical Methods (4)
   MATH 475. Introduction to Point-Set Topology (4)
   MATH 500. Complex Variables (4)
   MATH 510. Advanced Geometry (4)
   MATH 511. Advanced Linear Algebra (4)
   MATH 515. Advanced Analysis (4)
   MATH 520. Advanced Computer Graphics (4)
   MATH 524. Supercomputing and Visualization (4)
   MATH 535. Numerical Computation (4)
   MATH 555. Computer Organization (4)
   MATH 556. Introduction to Formal Methods, Models, and Languages (4)

Concentration in Geographic Information Systems (48 units)

Lower-division requirements (14 units)
1. GEOG 103. Physical Geography (5)
2. GEOG 201. Map Interpretation (4)
3. GEOG 202. Introduction to Geographic Information Systems and Cartography (5)

Upper-division requirements (14 units)
1. GEOG 308. Advanced Geographic Information Systems (5)
2. GEOG 402. Geographic Information Systems Applications (5)
3. MATH 470. Ordinary Differential Equations (4)

Electives (20 units)
1. At least eight units to be chosen from:
   GEOG 306. Remote Sensing of Environment (4)
   GEOG 406. Digital Image Processing (4)
   GEOG 575. Internship in Geography (5)

2. Twelve units selected from the following with at least eight units chosen from 500-level courses:
   MATH 320. Mathematical Interest Theory (4)
   MATH 411. Introduction to Mathematical Logic (4)
   MATH 455. Fourier Analysis (4)
   MATH 470. Ordinary Differential Equations (4)
   MATH 474. Numerical Methods (4)
   MATH 475. Introduction to Point-Set Topology (4)
   MATH 500. Complex Variables (4)
   MATH 510. Advanced Geometry (4)
   MATH 511. Advanced Linear Algebra (4)
   MATH 515. Advanced Analysis (4)
   MATH 520. Advanced Computer Graphics (4)
   MATH 524. Supercomputing and Visualization (4)
   MATH 535. Numerical Computation (4)
   MATH 555. Computer Organization (4)
   MATH 556. Introduction to Formal Methods, Models, and Languages (4)
Requirements for a minor in Mathematics:

Concentration in Physics (49 units)

Lower-division requirements (21 units)
1. PHYS 221. General Physics I (5)
2. PHYS 222. General Physics II (5)
3. PHYS 223. General Physics III (5)
4. PHYS 224. General Physics IV (3)
5. PHYS 225. General Physics V (3)

Upper-division requirements (4 units)
1. PHYS 373. Mathematical Methods of Physics I (4)

Electives (24 units)

1. Twelve units chosen from:
   - PHYS 306. Classical Mechanics I (4)
   - PHYS 307. Classical Mechanics II (4)
   - PHYS 313. Electrodynamics I (4)
   - PHYS 314. Electrodynamics II (4)
   - PHYS 315. Introduction to Modern Optics (4)
   - PHYS 324. Statistical and Thermal Physics (4)
   - PHYS 370. Introduction to Astrophysics (4)
   - PHYS 421. Quantum Mechanics I (4)
   - PHYS 422. Quantum Mechanics II (4)
   - PHYS 430. Advanced Physics Laboratory (4)
   - PHYS 450. Solid State Physics (4)
   - PHYS 461. Introduction to Nuclear Physics (4)
   - PHYS 463. Introduction to Elementary Particle Physics (4)
   - PHYS 473. Mathematical Methods of Physics II (4)
   - PHYS 480. Topics in Classical Physics (4)
   - PHYS 485. Topics in Contemporary Physics (2)
   - PHYS 573. Mathematical Methods of Physics III (4)

2. Twelve units of mathematics electives selected from the following with at least one four unit course chosen from 500-level courses:
   - MATH 320. Mathematical Interest Theory (4)
   - MATH 331. Linear Algebra (4)

Upper-division requirements (12 units)
1. MATH 331. Linear Algebra (4)
2. Four units chosen from:
   - MATH 345. Number Theory and Proof (4)
   - MATH 355. Analysis and Proof (4)
3. 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.
2. 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Introductory Actuarial Science

This program is designed to prepare students for the preliminary examinations 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 Introductory Mathematics

The Certificate in Introductory Mathematics has been approved by the California Commission on Teaching Credentialing to meet the required components for the Subject Matter Authorization: Introductory Mathematics. Completion of this program allows students to apply for the Subject Matter Authorization: Introductory Mathematics for teaching the content matter up through the ninth grade mathematics.

Certificate Requirements (48 units)

Courses must be completed with a grade of "C" or better.

Component Areas (20 units)

1. Select at least one course from each of the following five areas, with no course used to satisfy more than one area:
   A1: Algebra
   MATH 110. College Algebra (4)
   May choose only one of the following two courses:
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Calculus (4)
   MATH 212. Calculus II (4)
   A2: Advanced Algebra
   MATH 120. Precalculus (4)
   May choose only one of the following two courses:
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Calculus (4)
   MATH 212. Calculus II (4)
   MATH 272. Discrete Mathematics (4)
   A3: Geometry
   May choose only one of the following two courses:
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Calculus (4)
   MATH 229. Geometry in Two and Three Dimension (4)
   A4: Probability and Statistics
   MATH 115. Ideas of Math (4)
   May choose only one of the following two courses:
   MATH 262. Applied Statistics (4)
   MATH 305. Statistics: Hypotheses Testing and Estimation (4)
   A5: Development of the Real Number System
   May choose only one of the following two courses:
   MATH 192. Methods of Calculus (4)
   MATH 211. Basic Calculus (4)
   MATH 212. Calculus II (4)
   MATH 301A. Fundamental Concepts of Mathematics for Educators A: Fundamental Concepts of Arithmetic and Geometry (4)

2. Electives (28 units)

Select an additional 28 units from other courses listed above not already taken (unless restricted between two courses), or from the following courses:

MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
MATH 199. Technology in Math Education Through Problem Solving (3)
MATH 301B. Fundamental Concepts of Mathematics for Educators B: Transition from Concrete to Abstract in Algebra and Geometry (4)

MATH 301C. Fundamental Concepts of Mathematics for Educators C: Further Developments in Algebra and Geometry (4)
MATH 308. Problem Solving Through Theory and Practice (2)

COURSE OFFERINGS IN MATHEMATICS (MATH)

70. Fundamental Arithmetic

Fundamental topics in arithmetic, including a preview of algebra. Units awarded for MATH 70 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

75. Basic Mathematics

A course designed for students who score at or in the lowest quartile on the Entry Level Mathematics examination. Units awarded for MATH 75 are not applicable to a baccalaureate degree. Graded credit/no credit.

A. Arithmetic of integers, rational numbers and decimals, including the order of operations, percentages, fractions, ratio and proportion, linear equations. (4 units)
B. Linear equations and their graphs, systems of linear equations, polynomials, factoring, integer exponents and factoring. (4 units)
C. Integer exponents and factoring, systems of linear equations, solving rational equations, quadratic equations, the Pythagorean theorem, the distance formula. (4 units)

79. Algebra Workshop

A laboratory based algebra workshop; to be taken with MATH 80 by students who would otherwise not qualify for admission to that course. Units awarded for MATH 79 are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of instructor. (1 unit)

80. Fundamental Algebra

(FWS)
Arithmetic operations, linear and quadratic equations, applications and introduction to graphing. Units awarded for MATH 80 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

90. Intermediate Algebra

(FWS)
Linear and quadratic equations and inequalities, algebraic fractions and rational equations, exponents, radicals and radical equations, applications to word problems. Units awarded for MATH 90 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. Prerequisite: passage of the Entry Level Mathematics examination or a satisfactory score on the appropriate placement test. (4 units)

Lower Division

110. College Algebra

(FWS)
Functional notation, graphs and inverses of linear, polynomial, and rational functions, rational exponents, arithmetic and geometric progressions, logarithmic and exponential functions, systems of linear equations. Graded A,B,C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B1) (4 units)

115. The Ideas of Mathematics

(FWS)
Sets and their applications to topics in discrete mathematics that will include enumeration techniques and finite probability spaces. Graded A, B, C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B1) (4 units)
120. Pre-Calculus Mathematics (FWS)
Trigonometric functions, trigonometric identities, right angle trigonometry, complex numbers, conic sections, binomial theorem, induction. Graded A, B, C/no credit. Prerequisite: satisfactory score on the Entry Level Mathematics examination or passage of MATH 110. (GE=B1) (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 (FWS)
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 (WS)
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) (4 units)

212. Calculus II (FWS)
Techniques and applications of integration, differentiation and integration of transcendental functions. Prerequisite: MATH 211 with a grade of "C" or better. (4 units)

213. Calculus III (FWS)
Sequences and series, numerical techniques, polar coordinates, parametric equations. Prerequisite: MATH 212 with a grade of "C" or better. (4 units)

229. Geometry in Two and Three Dimensions (S)
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. Prerequisite: 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 (FWS)
Differentiation and integration of vector functions with applications, multiple integration, line and surface integrals. Partial and directional derivatives. Theorems of Green and Stokes. Prerequisites: MATH 251, and 213 with a grade of "C" or better. (4 units)

262. Applied Statistics (FWS)
Basic concepts of probability and statistics. Important probability models such as the binomial, Poisson and normal. Statistical procedures, particularly in relation to estimation, hypothesis testing and modeling. Computer simulations and computations. May not be taken for credit by students who have received credit for MATH 305. Prerequisite: MATH 210. 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. (4 units)

271. 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. (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.
A. Fundamental Concepts of Arithmetic and Geometry. Mathematical reasoning behind the structure and arithmetic of real numbers. Connections between numbers and geometry. Introduction 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. Polynomials, 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 con-
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 func-
tions 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 discov-
ery, 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 empha-
size 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 educa-
tion 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 develop-
ment 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
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 (FWS)
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 (S)
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 applica-
tions, 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 (FWS)
Development of Euclidean plane geometry in terms of congruence
and similarity transformations. Classification of affine transforma-
tions with applications to classical theorems. Introduction to inverse
transformations and related constructions. Prerequisites: MATH 251
and high school geometry or equivalent. (4 units)

331. Linear Algebra (FWS)
Vector spaces over a field, linear dependence, dimension; matrices
and systems of linear equations; the theory of linear transformations;
characteristic values and vectors; applications. 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 (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 applica-
tions and topics in graph theory. Prerequisite: MATH 213; or MATH
211, 262 and 272. (4 units)

395. Directed Study
Reading and library research in mathematics conducted under the di-
rection 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.
(1-4 units)

399. Service Learning Experience in
Mathematics (FW)
Supervised learning experience in the secondary mathematics class-
room. Observation and participation that provides future teachers
with first-hand experience and the opportunity to link their undergrad-
uate 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. Prereq-
usite: MATH 329. (2 units)

411. Introduction to Mathematical Logic
Propositional and quantificalogic, completeness and consistency
results, formal systems, Peano arithmetic, recursive functions,
Godel's incompleteness theorem. Prerequisite: MATH 345. (4 units)

455. Fourier Analysis
Fourier series and the Fourier transform. Convergence properties
and orthogonality. Applications to differential equations. Prerequi-
sites: MATH 270 and 355. (4 units)

465. Probability Theory (FWS)
Probability spaces, independence, conditional probability, densities,
mass and distribution functions, moments, joint and marginal distribu-
tions, 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 transforma-
tions, applications. Prerequisites: MATH 270 and 331. (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: CSE 201 and MATH 331. (4 units)

480. Topics in History of Mathematics (FWS)
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 (WS)
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)

500. 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 (FWS)
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)

531. Advanced Linear Algebra
Inner product spaces; duality of vector spaces; canonical forms; spectral theory; quadratic forms. Formerly a topic under MATH 510. Prerequisite: MATH 331. (4 units)

545. Abstract Algebra I (FWS)
An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

546. Abstract Algebra II (S)
Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

553. Analysis I (FWS)
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 (S)
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.

570. Partial Differential Equations
Classification of partial differential equations; heat equation, Laplace's equation, boundary value-problems; separation of variables. Applications of Fourier and Laplace transforms, numerical methods. Prerequisites: MATH 270 and 355. MATH 241 recommended. (4 units)

576. Introduction to Mathematical Models
Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSE 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. (1-4 units)

599. Senior Seminar for Future Mathematics Educators (FS)
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)
MILITARY SCIENCE PROGRAM (ARMY ROTC)

Military Science Office
Faculty Office Building, Rooms 124 and 125
(909) 537-5533  www.csusbarmyrotc.com

FACULTY: LTC H. Schleuning, SFC J. Johnson, MAJ M. Murphy

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 $450-500 per month during the final two years of the program.

MILITARY SCIENCE PROGRAM

Program Requirements

Option I (Four Year Program)
Program Requirements (48 units)

Basic Course of Study (12 units)
1. MILS 151. Basic Military Skills I (2)
2. MILS 152. Basic Military Skills II (2)
3. MILS 153. Basic Military Skills III (2)
4. MILS 251. Leadership and Management I (2)
5. MILS 252. Leadership and Management II (2)
6. MILS 253. Leadership and Management III (2)

Advanced Course of Study (12 units)
1. Twelve units chosen from:
   MILS 351. Small Unit Operations I (2)
   MILS 352. Small Unit Operations II (2)
   MILS 353. Advanced Military Leadership and Management (2)
   MILS 451. Military Law (2)
   MILS 452. Contemporary Military Policy (2)
   MILS 453. Senior Leadership Seminar (2)
   MILS 595. Independent Study (2) may be repeated for a total of (4)

Leadership Laboratory (12 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC Program:
1. MILS 100. Leadership Laboratory (1) for a total of (12)
Note: In addition, a six-week advanced camp is required between the final two years of study.

In addition to the ROTC curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum.

These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (12 units)
1. Computer Literacy
   Four units chosen from one of the following four options:
   A. CSE 129. Science, Computing and Society (2) and CSE 123. Using Computer Software (2)
   B. CSE 129. Science, Computing and Society (2) and CSE 124. Exploring the Information Superhighway (2)
   C. CSE 298. Application Software Topics (2) for a total of (4) as topics change
   D. IST 101. Introduction to Information Technology (4)

2. Written Communications Skills
   Four units chosen from:
   EDUC 306. Expository Writing for Education (4)
   ENG 306. Expository Writing (4)
   HUM 306. Expository Writing for the Humanities (4)
   MGMT 306. Expository Writing for Administration (4)
   NSCI 306. Expository Writing for the Natural Sciences (4)
   SSCI 306. Expository Writing for the Social Sciences (4)

3. Military History
   HIST 603. Seminar in Modern Military History (4)
   Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

Option II (Two Year Program)
Program Requirements (32 units)

Basic Course Equivalent (2 units)
1. MILS 260. ROTC Basic Camp (2)

Advanced Course of Study (12 units)
1. Twelve units chosen from:
   MILS 351. Small Unit Operations I (2)
   MILS 352. Small Unit Operations II (2)
   MILS 353. Advanced Military Leadership and Management (2)
   MILS 451. Military Law (2)
   MILS 452. Contemporary Military Policy (2)
   MILS 453. Senior Leadership Seminar (2)

Leadership Laboratory (6 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC program.
1. MILS 100. Leadership Laboratory (1) for a total of (6)
Note: In addition, a six week advanced camp is required between the final two years of study.

In addition to the ROTC Curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (12 units)
1. Computer Literacy
   Four units chosen from one of the following four options:
   A. CSE 129. Science, Computing and Society (2) and CSE 123. Using Computer Software (2)
   B. CSE 129. Science, Computing and Society (2) and CSE 124. Exploring the Information Superhighway (2)
C. CSE 298. Application Software Topics (2) for a total of (4) as topics change
D. IST 101. Introduction to Information Technology (4)

2. Written Communications Skills
Four units chosen from:
EDUC 306. Expository Writing for Education (4)
ENG 306. Expository Writing (4)
HUM 306. Expository Writing for the Humanities (4)
MGMT 306. Expository Writing for Administration (4)
NSCI 306. Expository Writing for the Natural Sciences (4)
SSCI 306. Expository Writing for the Social Sciences (4)

3. Military History
HIST 603. Seminar in Modern Military History (4)

Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

COURSE OFFERINGS IN
MILITARY SCIENCE (MILS)

Lower Division

100. Leadership Laboratory
Practicum in those skills taught in the classroom during other military science classes in the quarter. To include Small Unit Operations, such as patrolling, air mobile operations, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each quarter the student is enrolled in the Military Science program. (1 unit)

151. Basic Military Skills I
Introduction to the role of the officer, the noncommissioned officer, and organization of the total Army. (2 units)

152. Basic Military Skills II
A continuation of basic military skills. Prerequisite: MILS 151 or consent of instructor. (2 units)

153. Basic Military Skills III
A continuation of basic military skills. Prerequisites: MILS 151 and 152 or consent of instructor. (2 units)

251. Leadership and Management I
Introduction to leadership and management which develops technical skills that must be learned in order to perform as a leader. Students master technical aspects that are specific to the military profession. Prerequisites: MILS 151, 152, and 153 or consent of instructor. (2 units)

252. Leadership and Management II
Continuation of leadership and management skills. Prerequisite: MILS 251 or consent of instructor. (2 units)

253. Leadership and Management III
Continuation of leadership and management skills. Prerequisites: MILS 251 and 252 or consent of instructor. (2 units)

260. ROTC Basic Camp
ROTC Basic Camp is a six week course at FT Knox, KY. The basic camp offers students with no prior military training, or ROTC classes, the chance to enter the ROTC advanced program, if the student has two or more years of undergraduate or graduate study remaining. It is comparable to the first two years of the ROTC program. Prerequisite: consent of Military Science Department advisor. (2 units)

Upper Division

351. Small Unit Operations I
Current tactical doctrine as applied to small unit operations. Prerequisite: consent of instructor. (2 units)

352. Small Unit Operations II
Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leader's role. Prerequisite: MILS 351. (2 units)

353. Advanced Military Leadership and Management
Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces. Prerequisite: MILS 352. (2 units)

451. Military Law
Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. Prerequisite: consent of instructor. (2 units)

452. Contemporary Military Policy
Contemporary military policy and related subjects of topical military interest, including personal ethics, relevant to the training of junior-level officers. Prerequisite: consent of instructor. (2 units)

453. Senior Leadership Seminar
Leadership and management problems encountered in a company-sized unit, both in garrison and in the field, with emphasis on role of the junior officer. Prerequisite: consent of instructor. (2 units)

595. Independent Study
A directed reading and research course in contemporary military issues oriented towards a student's transition from cadet to commissioned officer. May be repeated twice for credit. Prerequisites: completion of all advanced military science courses and consent of instructor. (2 units)
MUSIC

Accredited by the National Association of Schools of Music (NASM)

Department of Music
Performing Arts Building, Room 111
(909) 537-5859 music.csusb.edu

Bachelor of Arts

Music
with emphases in:
Commercial Music
Music Education
Performance/Composition
General Music Studies
Music Technology
Musical Theatre
Ethnomusicology
Music History

Teaching Credential Program

Music

Minors

Jazz Studies
Music (see Addendum)
Recording Arts

FACULTY: Edward Bostley (Emeritus), Loren Fibeck (Emeritus), Stacey Fraser, Eric Jester, Todd Johnson (Chair), Robert Knop, Larry McFalter (Emeritus), Allen Menton, Kosta Popovic, 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.

Placement in the B.A. in Music 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 college applied music at the 140-145 level).

Applied instruction is available only to declared music majors. Students entering the Composition Emphasis will be required to complete one year of applied vocal or instrumental music instruction (MUS 140-145) prior to acceptance into applied composition instruction (MUS 246). Students entering the Music Technology Emphasis will be required to complete two years of applied vocal or instrumental music instruction. (MUS 140-145 and MUS 240-245) prior to acceptance into applied technology instruction (MUS 348).

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 is not applicable to the music program nor a baccalaureate degree. These courses are graded credit/no credit.

Students may enroll in a maximum of six quarter units at any one collegiate level of applied instruction (MUS 140-145, 240-246, 340-348, or 440-448). After six quarters at one level, students unable to satisfy completion requirements for that level will be counseled to select a major in a different discipline and will be denied enrollment in any higher level of applied instruction.

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 students enrolled as full-time music majors are required to participate each quarter until graduation in a major performing ensemble most appropriate to a student's applied emphasis.

B.A. IN MUSIC

Requirements (96 units) (see Addendum for program changes)

Total units required for graduation: 180

Requirements for the B.A. in Music:

Music Theory (24 units)

1. MUS 120. Theory I (3)
2. MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3)
4. MUS 123. Theory II Laboratory (1)
5. MUS 321. Theory I Laboratory (3)
6. MUS 322. Theory II Laboratory (1)
7. MUS 323. Theory III Laboratory (3)
8. MUS 324. Theory IV (3)
9. MUS 325. Theory V Laboratory (1)
10. MUS 326. 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.
2. 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 340-349 (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)
   MUS 386. Chamber Singers (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)

Requirements for the B.A. in Music:
MUS 426. Studies in Music History (4)
MUS 402. Studies in Genres (4)
MUS 400. Studies in Composers (4)
MUS 307. Music of the 20th and 21st Centuries (4)
6. Four units chosen from:

   5. MUS 408. Arranging (2)
   4. MUS 406. Orchestration (2)
   3. MUS 303. Instrumental Conducting (2)
   2. MUS 301. Choral Conducting (2)
   1. MUS 266. Introduction to Computer and Electronic Music (4)

7. Three units chosen from:

   6. MUS 407. Music in the United States (4)
   5. MUS 352. African American Music (4)
   4. MUS 351. Latin American Music (4)

8. Two units chosen from:

   7. MUS 304. Music in the Elementary Schools (2)
   6. MUS 303A. Class Brass I (1)
   5. MUS 303B. Class Brass II (1)
   4. MUS 302B. Class Woodwinds II (1)
   3. MUS 302A. Class Woodwinds I (1)
   2. MUS 301. Choral Conducting (2)
   1. MUS 266. Introduction to Computer and Electronic Music (4)

Performance/Composition Emphasis (31 units)
1. One unit chosen from:

   MUS 207. Diction for Singers (1) for voice emphasis
   MUS 206. Class Voice (1)

10. MUS 208. Vocal Music Literature (1)
11. MUS 209. Instrumental Music Literature (1)
12. MUS 301. Choral Conducting (2)
13. MUS 303. Instrumental Conducting (2)
14. MUS 382. Chamber Music (1) for a total of (2)
15. MUS 406. Orchestration (2)
16. MUS 408. Arranging (2)
17. MUS 410. Teaching Music in Secondary Schools (4)
18. MUS 411. Teaching Music in Elementary Schools (4)
19. MUS 535. Computer Studies for Music Teachers (2)

Music Education Emphasis (31 units) (see Addendum for program changes)
1. MUS 201A. Class Strings I (1)
2. MUS 201B. Class Strings II (1)
3. MUS 202A. Class Woodwinds I (1)
4. MUS 202B. Class Woodwinds II (1)
5. MUS 203A. Class Brass I (1)
6. MUS 203B. Class Brass II (1)
7. MUS 204A. Class Percussion I (1)
8. MUS 204B. Class Percussion II (1)
9. One unit chosen from:

   MUS 206. Class Voice (1)
   MUS 207. Diction for Singers (1) for voice emphasis students)

10. MUS 208. Vocal Music Literature (1)
11. MUS 209. Instrumental Music Literature (1)
12. MUS 301. Choral Conducting (2)
13. MUS 303. Instrumental Conducting (2)
14. MUS 382. Chamber Music (1) for a total of (2)
15. MUS 406. Orchestration (2)
16. MUS 408. Arranging (2)
17. MUS 410. Teaching Music in Elementary Schools (4)
18. MUS 411. Teaching Music in Secondary Schools (4)
19. MUS 535. Computer Studies for Music Teachers (2)

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 446. Applied Technology I (1) for a total of (3)
7. MUS 575. Internship in Music Technology (4)
8. Music Electives (4 units)

Music Electives (12 units)
Twelve units of music courses related to the student's area of study (composition, instrumental, vocal, technology), subject to approval of advisor.

General Music Studies Emphasis (31 units)
1. MUS 266. Introduction to Computer and Electronic Music (4)
2. Four units chosen from:

   MUS 351. Latin American Music (4)
   MUS 352. African American Music (4)
   MUS 360. Music in the United States (4)

3. Four units chosen from:

   MUS 307. Music of the 20th and 21st Centuries (4)
   MUS 400. Studies in Composers (4)
   MUS 402. Studies in Genres (4)
   MUS 427. Advanced Studio Recording Techniques (4)

4. MUS 528. Special Projects (2)
5. Music Electives (9 units)
Nine units of music courses, subject to approval of advisor.
6. 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.

Musical Theatre Emphasis (31 units)
1. TA 131. Makeup for Stage and Screen (3)
2. TA 251. Acting I: Games and Exercises (3)
3. TA 252. Acting II: Creating a Role (3)
4. Six 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)
MINOR IN MUSIC (28 units)

Requirements for a minor in Music:

1. MUS 100. Basic Musicianship (3)
2. MUS 101. Basic Musicianship Laboratory (1)
3. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
4. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
5. MUS 124. Theory III Laboratory (1)
6. MUS 125. Music and Literature (1)
7. MUS 141. Elementary Piano (3)
8. MUS 142. Elementary Theory (3)
9. MUS 144. Elementary Ear Training (3)
10. MUS 145. Elementary Sight Reading (3)

MINOR IN MUSIC (see Addendum for program changes)

Requirements for a minor in Music:

1. MUS 100. Basic Musicianship (3)
2. MUS 101. Basic Musicianship Laboratory (1)
3. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
4. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
5. MUS 124. Theory III Laboratory (1)
6. MUS 125. Music and Literature (1)
7. MUS 141. Elementary Piano (3)
8. MUS 142. Elementary Theory (3)
9. MUS 144. Elementary Ear Training (3)
10. MUS 145. Elementary Sight Reading (3)

MINOR IN MUSIC (see Addendum for program changes)

Requirements for a minor in Music:

1. MUS 100. Basic Musicianship (3)
2. MUS 101. Basic Musicianship Laboratory (1)
3. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
4. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
5. MUS 124. Theory III Laboratory (1)
6. MUS 125. Music and Literature (1)
7. MUS 141. Elementary Piano (3)
8. MUS 142. Elementary Theory (3)
9. MUS 144. Elementary Ear Training (3)
10. MUS 145. Elementary Sight Reading (3)

MINOR IN MUSIC (see Addendum for program changes)

Requirements for a minor in Music:

1. MUS 100. Basic Musicianship (3)
2. MUS 101. Basic Musicianship Laboratory (1)
3. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
4. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
5. MUS 124. Theory III Laboratory (1)
6. MUS 125. Music and Literature (1)
7. MUS 141. Elementary Piano (3)
8. MUS 142. Elementary Theory (3)
9. MUS 144. Elementary Ear Training (3)
10. MUS 145. Elementary Sight Reading (3)

MINOR IN MUSIC (see Addendum for program changes)

Requirements for a minor in Music:

1. MUS 100. Basic Musicianship (3)
2. MUS 101. Basic Musicianship Laboratory (1)
3. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
4. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
5. MUS 124. Theory III Laboratory (1)
6. MUS 125. Music and Literature (1)
7. MUS 141. Elementary Piano (3)
8. MUS 142. Elementary Theory (3)
9. MUS 144. Elementary Ear Training (3)
10. MUS 145. Elementary Sight Reading (3)
7. Two units chosen from:
   MUS 380. Chamber Orchestra (1)
   MUS 381. Symphonic Band (1)
   MUS 382. Chamber Music (1)
   MUS 385. Concert Choir (1)
   MUS 386. Chamber Singers (1)
8. Four units in music courses at the upper-division level.

MINOR IN RECORDING ARTS
Requirements (28 units)

Requirements for a minor in Recording Arts:
1. MUS 100. Basic Musicianship (3)
   MUS 101. Basic Musicianship Laboratory (1)
2. MUS 120. Theory I (3) and
   MUS 121. Theory I Laboratory (1)
3. MUS 122. Theory II (3) and
   MUS 123. Theory II Laboratory (1)
   Some or all of the above music theory courses can be waived
   based on departmental placement testing. Contact the Music De-
   partment chair for more details. Waived coursework must be
   replaced with other music courses of the same number of units.
4. MUS 266. Introduction to Computer and Electronic
   Music (4)
5. MUS 267. Introduction to Studio Recording Techniques (4)
7. MUS 427. Advanced Studio Recording Techniques (4)

HONORS IN MUSIC
To be awarded honors in Music, music majors must meet all of
the following criteria:
1. Achieve a university grade point average of 3.6 or higher;
2. Achieve a Music Department grade point average of 3.8 or
   higher;
3. Demonstrate superior ability in musical performance, composi-
   tion or scholarship as determined by judgment of Music De-
   partment faculty. This may be based on a project, performance, com-
   petition, teaching or other activity on or off campus;

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 to-
ward 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. Prerequisites: MUS 100 and 101 or equivalent or place-
ment examination or consent of instructor. (3 units)

121. Theory I Laboratory
Continuation of MUS 101. Applied musicianship experience including
sightsinging, dictation, and keyboard activity. Must be taken concur-
rently 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.
Prerequisites: MUS 120 and 121 or equivalent or consent of instruc-
tor. (3 units)

123. Theory II Laboratory
Continuation of MUS 121. Applied musicianship experience including
sightsinging, dictation, and keyboard activity. Must be taken concur-
rently with MUS 122. Prerequisites: MUS 120 and 121 or equivalent.
(1 unit)

230. Introduction to Jazz Improvisation
Techniques of jazz improvisation including melodic construction,
functional jazz harmonies, practice techniques, primary chord types,
auxiliary tones, chromaticsism and 12-bar blues form. May be re-
peated for credit. Prerequisites: MUS 122, 123, 221 or equivalent, or
consent of instructor. (2 units)

Upper Division

320. Theory III
Melody, harmony and texture as they relate to musical structure; ex-
tension of tonality and its eventual evolution into twentieth century
practice; analysis of representative compositions. Must be taken con-
currently with MUS 321. Prerequisites: MUS 122 and 123 or equiva-
 lent, 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.
Prerequisites: MUS 320 and 321 or equivalent or consent of instruc-
tor. (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 instruc-
tor. (1 unit)

324. Theory V
Continuation of MUS 322. Must be taken concurrently with MUS 325.
Prerequisites: MUS 322 and 323 or equivalent or consent of instruc-
tor. (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 instruc-
tor. (1 unit)
330. Advanced Jazz Improvisation
Continuation of MUS 230. Studies of advanced techniques including chromatic harmony, tritone substitutions, substitute harmonic idioms, polyharmony, modal jazz, quartal jazz, and rhythm changes. Prerequisite: MUS 230 or equivalent, or consent of instructor. (2 units)

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 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)

307. Music of 20th and 21st Centuries
Intensive study of musical currents in the 20th and 21st centuries. Prerequisite: MUS 306 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)

309. Jazz History in America and African-American Culture
Chronological study of jazz in the United States and the study of African-American musical culture in the U.S. Addresses cultural, racial, social, musical, and gender-related influences of jazz on current American arts, pop culture, language, and entertainment demographics. (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)

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
260. Commercial Songwriting
Introduction to the harmony, melody, form, and lyrics used in commercial song and jingle composition. Students will compose original songs and jingles as part of the course requirements. Prerequisites: MUS 122, 123, and consent of department. (2 units)
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 and Scoring
Arranging and scoring techniques for groups of varied instrumentation, and for various commercial applications, including traditional songs, jingles, and video scoring. Prerequisites: MUS 260 and 406 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. (4 units)
475. Internship in Commercial Music
Supervised work in a public or private setting that provides substantial experience in creating, performing, recording, editing, or mastering commercial music, including song/video scoring and composition, studio and live performance, and recording engineering. May be repeated twice for a maximum of 6 units. Assumes 30 hours of work per unit of credit. Graded credit/no credit. Prerequisites: MUS 414 and 349. (2 units)

575. Internship in Music Technology
Supervised work in a public or private setting that provides professional experience in the field of music technology. May be repeated once for credit. Generally assumes 30 hours of work per unit of credit. Graded credit/no credit. Prerequisites: MUS 348, 429, and consent of instructor. (4 units)

INDEPENDENT STUDY
Upper Division
528. Special Projects
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Prerequisite: consent of instructor. (1-4 units)

MUSIC EDUCATION
The following courses are designed for the prospective elementary and secondary school teacher.
Lower Division
201. Class Strings
A. I: Beginning study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
B. II: Continued study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 201A. (1 unit)

202. Class Woodwinds
A. I: Beginning study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
B. II: Continued study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 202A. (1 unit)

203. Class Brass
A. I: Beginning study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
B. II: Continued study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 203A. (1 unit)

204. Class Percussion
A. I: Beginning study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
B. II: Continued study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 204A. (1 unit)

205. Class Guitar
A. I: Beginning study of guitar. (1 unit)
B. II: Continued study of guitar. (1 unit)

206. Class Voice
Fundamentals of singing, voice production and diction. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)

207. Diction for Singers
Proper diction and pronunciation used in English, Latin, Italian, French and German vocal literature. Examples drawn from standard vocal literature. (1 unit)
210. Conducting
Introduction to basic conducting techniques. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. Prerequisites: MUS 122 and 123 or equivalent. (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-style 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)

370. Music for Elementary Classroom Teachers
Basic elements of music, including teaching strategies for using music in the elementary classroom. Class activities will include singing, movement, listening, playing classroom instruments, and musical composition. Students will also develop proficiency on the soprano recorder. Each student will develop and present a lesson plan integrating teaching of musical skills with other areas of the elementary curriculum, in accordance with the California and National Standards for Visual and Performing Arts. Two hours lecture and two hours activity. (3 units)

372. Music Materials for Classroom Teachers
Extension of the concepts of music education in the elementary school as developed in MUS 370. Practical strategies for integration of computer technologies into the curriculum are explored as well as the evaluation of elementary music text books and software. Writing projects include short- and long-term lesson plans to assist the child in becoming musically literate as outlined in the California Standards for Visual and Performing Arts. Special emphasis will be given to preparation for the CSET Music Subject Matter Examination. Open to liberal studies majors, music majors, and others with sufficient background. Prerequisite: MUS 100 or 370 or consent of instructor. (4 units)

374. Music Methods for Classroom Teachers
Major methodological approaches to teaching the basic elements of music. Methods studied will include, but not be limited to the following: Orff-Schulwerk, Kodaly, Dalcroze, Gordon Learning Theory and Suzuki. An understanding of each approach, its history, and application to classroom music instruction at both the elementary and secondary levels, along with continued proficiency on the soprano recorder. This course is designed in accordance with the California Standards for Visual and Performing Arts. Open to liberal studies majors, music majors, and others with sufficient background. Prerequisite: MUS 100 or 370 or consent of instructor. (4 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)

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. (2 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.
The following preparatory applied music courses are open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 140-145. 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. Cello (1 unit)
D. Bass (1 unit)
E. Guitar (1 unit)
F. Harp (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)

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 140. 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 141. 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 142. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (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 143. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

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 144. 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 145. 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. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

141. Lower-Division Keyboard Instrument I
One-half hour per week of private instruction. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. 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. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. 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)
F. Harp (1 unit)

143. Lower-Division Wind Instrument I
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

240. Lower-Division Voice II

One-half hour per week of private instruction. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

241. Lower-Division Keyboard Instrument II

One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units. 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)
F. Harp (1 unit)

243. Lower-Division Wind Instrument II

One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

246. Lower-Division Composition

One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. 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. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

341. Upper-Division Keyboard Instrument I

One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units. 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)
F. Harp (1 unit)

343. Upper-Division Wind Instrument I

One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

346. Upper-Division Composition I

One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

348. Applied Technology I

Individual instruction in applied music technology and directed study in characteristic repertoire, live performance, digital programming, and/or creative layering of sound. One-half hour per week of private instruction. Formerly MUS 447. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. Prerequisite: MUS 416 or 427 and approval of music faculty. (1 unit)
349. Applied Commercial Music
Individual instruction in applied commercial music composition, scoring, performance, and/or engineering, including directed study in ProTools and MIDI software and hardware, commercial performance practice for studio and live settings, refinement of compositional skills for particular commercial genres and needs, and other topics selected with instructor's approval. One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. Prerequisites: MUS 266 and 416 and approval of music faculty. (1 unit)

440. Upper-Division Voice II
One-half hour per week of private instruction. Must be taken concurrently with either MUS 385 or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

441. Upper-Division Keyboard Instrument II
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units. 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)
F. Harp (1 unit)

443. Upper-Division Wind Instrument II
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units. 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. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

446. Upper-Division Composition II
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. Prerequisites: placement audition and approval of music faculty. (1 unit)

448. Applied Technology II
Advanced individual instruction in applied music technology, with directed study in characteristic repertoire, live performance, digital programming, and creative layering of sound. One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, 381, 385, or 386. May be repeated for a maximum of six units. Prerequisites: MUS 348 or consent of instructor. (1 unit)

498. Junior Project
Independent study with applied instructor or principal instructor in area of emphasis. Prerequisite: 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 993. (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 995. (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

375. Music Theatre Internship
Supervised work in a public or private setting that includes primarily professional auditioning and performing experience in the field of music theater. May be repeated twice for credit. Generally assumes 30 hours of work per unit of credit. Graded credit/no credit. Prerequisites: DAN 300, MUS 340, and either MUS 302, 387 or TA 302. (2 units)

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 Choir (1 unit)
G. Clarinet Ensemble (1 unit)
H. Jazz Combo. Prerequisite: MUS 230 or consent of instructor. (1 unit)

385. Concert Choir
Performance of representative choral literature. (1 unit)

386. Chamber Singers
Prerequisite: consent of instructor. (1 unit)
387. Opera Theatre I
Preparation and rehearsal of major music theatre productions, including opera, operetta, and opera scenes. May be repeated for credit. Total credit units apply to any degree emphasis are outlined in the specific catalog description for that emphasis. Students admitted into this course must also register for MUS 397 in the Spring quarter of the same academic year. 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. Vocal Jazz
A select vocal ensemble dedicated to the performance of American vocal jazz, emphasizing vocal jazz improvisation and jazz 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)

397. Opera Theatre II
Continuation of MUS 387. Preparation and performance of major music theatre productions, including opera, operetta, and opera scenes. May be repeated for credit. Total units may apply to any degree emphasis area outlined in the specific catalog description for that emphasis. Prerequisite: MUS 387 in the same academic year. (2 units)

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. (1-2 units)

Graduate level courses can be found on Page 505.
NATIVE NATIONS

College of Social and Behavioral Sciences
Social and Behavioral Sciences Building, Room 207
(909) 537-7500  cips.csusb.edu

Coordinator: James Fenelon

Certificate
Native Nations/Indigenous Peoples 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. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Native Nations/Indigenous Peoples Studies

Admission to the Program
1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

Certificate Requirements (20 units)
1. SOC 545. Indigenous Peoples (4) or its equivalent as approved by a certificate coordinator.
2. Eight units chosen from:
   ANTH 351. Indians of North America (4)
   ANTH 352. Indian of the Southwest (4)
   ANTH 577. Internship in Archaeology (4) with approval by a certificate coordinator
   HIST 371. California Indian History (4)
   HIST 342. American Indian History (4)
   HIST 575. Internship in History (4) with approval by a certificate coordinator
   SOC 525. Indian Nations and Native Americans (4)
   SOC 590. Indigenous Peoples and Globalization (4)
3. Electives
   Eight units chosen from:
   ANTH 305. North American Prehistory (4)
   May choose only one of the following two courses:
   ANTH 312. Historical Archaeology (4)
   HIST 312. Historical Archaeology (4)
   May choose only one of the following two courses:
   ANTH 314. The Art of Indigenous People (4)
   ART 314. The Art of Indigenous People (4)
   ANTH 315. Archaeology of the Southwest and California (4)
   May choose only one of the following two courses:
   ANTH 323. Native North American Art (4)
   ART 323. Native North American Art (4)
   May choose only one of the following two courses:
   ANTH 375. Museum Methods (4)
   HIST 375. Museum Methods (4)
   May choose only one of the following two courses:
   ANTH 376. Exhibit Design (4) when the exhibit is about Native Nations
   HIST 376. Exhibit Design (4) when the exhibit is about Native Nations
   ENG 314. American Indian Literature (4)
   ENG 319. Studies in Literary Diversity (4) when the topic is about Native Nations
   HIST 316. Archival Practices (4)
   HIST 318. Museum and Archival Management (4)
   HIST 326. Historic Preservation (4)
   SOC 590. World Systems Analysis and Indigenous Peoples (4)

Up to four units of outside coursework may be substituted with the approval of a certificate coordinator.
300. 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)

368. MARC Seminar I
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. (Also offered as PSYC 368 and SSCI 368. Students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved. (2 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. (1-4 units)

468. MARC Seminar II
A selected examination of original research articles in behavioral and biomedical sciences focusing on improving scientific writing skills, shaping long-term research projects, and the development of research funding proposals. (Also offered as PSYC 468 and SSCI 468. Students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved. Prerequisite: NSCI 368, PSYC 368 or SSCI 368. (2 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: 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. (1-5 units)

Graduate level courses can be found on Page 514.
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 permanent residents are eligible for admission. All pre-nursing majors should attend a general advising session with the Nursing Department. Contact the Department of Nursing for more information or visit the website.

Students in the nursing program must carry malpractice insurance, personal health insurance, and workers compensation (as required by clinical agencies). Low-cost insurance is available through the Student Nurses Association of California and through professional organizations for registered nurses or through many independent companies. Nursing students must have a valid California driver's license and access to an automobile covered by appropriate automobile insurance. Prior to entering the first quarter of classes, students must have a current American Heart Association CPR-Healthcare Provider card, proof of a physical examination, proof of immunity to rubella, hepatitis B and other specified infectious diseases, and a two-step Mantoux skin test, or a chest x-ray if there is proof of a positive TB skin test.

Additional immunizations may be required. Proofs of bi-annual renewal of CPR certification and annual PPD testing or chest x-ray, if indicated, will be required. Information about professional behavior, clinical attire, picture identification and other regulations can be found in the undergraduate student handbook. All nursing students are required to complete a background check upon admission to the program. Additional background checks, including drug screen testing may be required by certain clinical agencies at the student's expense. All convictions must be reported, except for minor traffic violations. When applying for licensure with the Board of Registered Nursing (BRN), all prior convictions will be reviewed as related to the qualifications, functions or duties of a registered nurse. Each application is evaluated on a case-by-case basis. The BRN considers the nature, severity, and recency of the offenses, as well as rehabilitation and other factors. When applying for licensure with the BRN, prospective nursing students are advised that they will have to disclose their social security number.

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.

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 October 1 for Winter term;
2. Completion of the ATI-TEAS pre-admission examination by admission application deadline;
3. A minimum grade point average of 3.0 overall and 3.0 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

1. Students in the Nursing major must earn grades of "C" or better in all courses prerequisite or corequisite to the major. If a grade less than "C" is earned in any nursing major course, the student will be dropped from the Nursing program. Upon successful re-application to the Nursing major, Nursing courses for which the student has earned less than a grade of "C" may be attempted or repeated only one time. Students may not enroll in any course that requires other nursing prerequisites unless the prerequisite courses are completed with grades of "C" or better. Additional academic policies can be found in the Department of Nursing BSN Nursing Student Handbook.
2. Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.
3. Nursing students must carry malpractice insurance in the amount of not less than $1,000,000 per occurrence and $3,000,000 per year or more in order to be admitted to clinical courses.
4. Prior to the first quarter of classes, students must submit a 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 by appointment through the Student Health Center for a fee. Immunizations and/or proofs of immunity 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.
8. 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 recommended prior to registration each quarter. Advisement is required prior to registration for spring 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. Freshman Composition (G.E.)
   Four units chosen from:
   - ENG 104A. Stretch Composition III (4)
   - ENG 104B. Stretch Composition III for Multilingual Students (4)
   - ENG 106. Accelerated Stretch Composition II (4)
   - ENG 107. Advanced First-Year Composition (4)
9. Mathematics (G.E.)
   Four units chosen from:
   - MATH 110. College Algebra (4)
   - MATH 115. The Ideas of Mathematics (4)
   - MATH 120. Pre-Calculus Mathematics (4)
   - MATH 192. Methods of Calculus (4)
   - MATH 211. Basic Concepts of Calculus (4)

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)

Lower-division requirements (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)

Upper-division requirements (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 382. Pharmacology and Therapeutics for Nursing Practice (2)
11. NURS 400. Psych/Mental Health Nursing (4)
12. NURS 401. Psych/Mental Health Nursing: Activity (4)
13. NURS 404. Leadership in Nursing: Nursing Management (4)
14. NURS 405. Leadership in Nursing: Clinical (4)
15. NURS 406. Community/Public Health Nursing (4)
16. NURS 407. Community/Public Health Nursing: Clinical (4)
17. NURS 422. Nursing Research (4)

B.S. IN NURSING: RN to BSN Bridge Program

Requirements (180 units)

Total units required for graduation: 180

Department Regulations

1. Admission requirements
   a. A grade point average of 3.0 or better in prerequisite support courses listed below;
   b. A grade point average of 3.0 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.
2. This program assumes all lower-division general education requirements have been met. The IGETC is valuable, but not required. Some lower division general education courses can be completed while the B.S. in Nursing program is in progress, but this will extend time to graduation.
3. Sixteen units of upper-division General Education courses are required (see Page 68 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.
6. NURS 310 is the prerequisite course for all courses required in the B.S. in Nursing program.
7. Prior to participating in the program, RN students must provide proof of immunity to certain infectious diseases, personal health insurance, workers compensation (as required by certain clinical agencies), a valid California driver’s license and access to an automobile covered by appropriate automobile insurance. Also required are a current American Heart Association Healthcare Provider CPR card, a background check, and other immunizations. The specifics of requirements may change, contact the Department of Nursing for additional requirements.

Quarter 1 (14 units)

1. NURS 341A. Professional Writing: Introduction (2)
2. NSCI 306. Expository Writing for the Natural Sciences (4)
3. NURS 343. The Nurse as a Researcher (4)
4. NURS 350. Nursing Theories (4)

Quarter 2 (16 units)

1. NURS 344. The Nurse as a Leader (4)
2. NURS 345. The Nurse as an Advocate: Family Concepts (4)
3. NURS 352. The Nurse as a Teacher (4)
4. Must choose one course from the General Education Capstone categories of B4, C5, or D5 (4)
Quarter 3 (16 units)
1. NURS 341B. Professional Writing: Project Identification (2)
2. NURS 346. The Nurse as a Member of the Community (4)
3. NURS 347. The Nurse as a Member of the Community: Activity (4)
4. NURS 353. Global Nursing (4)
5. Elective (2)

Quarter 4 (14 units)
1. NURS 341C. Professional Writing: Study Processes (2)
2. NURS 443. The Nurse as a Counselor (4)
3. NURS 444. The Nurse as an Expert Clinician (4)
4. Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously (4)

Quarter 5 (14 units)
1. NURS 341D. Professional Writing: Project Completion (2)
2. NURS 445. The Nurse as a Change Agent (4)
3. Four units chosen from:
   NURS 375. Cooperative Education (2)
   NURS 595. Independent Study (1-6)
4. Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously (4)

Quarter 6 (16 units)
1. NURS 494. Senior Seminar (4)
2. NURS 446. The Nurse as a Mentor: Activity (6)
3. NURS 483. The Nurse as a Lifelong Learner: Advanced Practice (4)
4. Elective (2)

DEPARTMENTAL HONORS
A graduating senior will be awarded departmental honors in nursing after meeting the following requirements:
1. Achieve a minimum grade point average of 3.6 in all upper-division courses taken at the university;
2. 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 written communication, critical thinking and mathematics or passing score on the Entry Level Mathematics examination; 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 middle and older individuals and families of diverse psychosocial and cultural backgrounds. Prerequisites: NURS 200 and consent of department. Corequisite: NURS 204. (4 units)

205. Beginning Nursing Process, Roles and Skills: Laboratory
Clinical experience in settings emphasizing physical and emotional care of middle 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. Prerequisites: NURS 204 and consent of department. Corequisite: NURS 220. (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. Prerequisite: consent of department. Corequisite: NURS 220. (4 units)

Upper Division

305. Secrets of Success
This course is intended to decrease the effects of stressors found in nursing education by improving personal overall wellness. The focus is on coping and other wellness strategies to address the multifaceted causes of stress. (2 units)

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. Prerequisites: 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 332, 333 and consent of department. (2 units)

341. Professional Writing
Graded credit/no credit.
A. Introduction. Introductory course for the RN working toward a BSN degree. Research and Best Evidence Practices will be introduced. APA foundations and guidelines for professional writing explored. Students will begin the writing of the nursing senior project in small groups. (2 units)
B. Project Identification. Adding to the written project or research paper for the senior project. Written work will include Best Evidence findings, purpose of the study, and methodology. (2 units)
C. Study Design. Further additions to the senior project or research paper. Additions will include assessment tools or tests, outline of pilot, and writing of IRB requests if necessary. (2 units)
D. Project Completion. Introduction to sources for nursing publications and assistance in the final additions to the senior project paper or to the senior research paper including results of the pilot, conclusions and recommendations. Practice of oral presentations of the findings and will be given assistance in professional poster preparation and presentation. (2 units)

343. The Nurse as a Researcher
Introduction of the foundations of medical and nursing research. Focus is on identifying, collecting, analyzing and disseminating evidenced based practice. Seminars will assist small groups in selection of the senior project that runs throughout the program. (4 units)

344. The Nurse as a Leader
Review of basic principles of leadership and management pertaining to healthcare settings. Contemporary issues as well as requisite changes in nursing healthcare delivery and nursing education. Beginning fiscal management and budgeting will be introduced and discussed. (4 units)

345. The Nurse as an Advocate: Family Concepts
Overview of family concepts focused upon the relationship between client & family and the healthcare provider. Family assessment will be introduced and practiced. Special attention will be given to end-of-life issues and caregiver support. (4 units)

346. The Nurse as a Member of the Community
Principles of population assessment in any healthcare setting will be introduced. Care of individuals and families in diverse settings will be emphasized. Health promotion and wellness will be examined and practiced. (4 units)

347. The Nurse as a Member of the Community: Activity
Application of knowledge and skills related to population assessment will be experienced in a variety of healthcare settings. These clinical hours will allow the student to apply for a Public Health Nurse Certificate. (4 units)

350. Nursing Theories
Introduction to various conceptual models of nursing. Implications of these models for nursing practice. Students will identify a model for use in their senior research project. (4 units)

352. The Nurse as a Teacher
Presentation of teaching-learning theories and application upon those methods to promote health and disease prevention across the lifespan. Focuses upon: illiteracy, caregivers and those with physical impairments. Students will present individual, family and group classes. (4 units)

353. Global Nursing
International health concerns affecting the delivery of nursing care at home and abroad. Credit will be arranged for nursing projects pertaining to international concerns. (4 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
Pathophysiologic 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)

382. Pharmacology and Therapeutics for Nursing Practice
Emphasis on the therapeutic use of drugs in humans. Discusses basic principles of drug therapy, with a focus on prototypical drug groups. Enables the student to extend pharmacological understanding from the basic curriculum, to allow for application in the continually evolving health-care environment. Formerly a topic under NURS 396. (2 units)

396. Selected Topics in Nursing
Selected nursing topics with specific focus. May be repeated for credit as topics change. Prerequisite: consent of department chair prior to registration. (2 units)
399. Community Service Project
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. (1-2 units)

400. Psych/Mental Health Nursing
Principles of health promotion and chronic illness care with mentally and physically ill middle and older adults with diverse psychosocial and cultural backgrounds via recovery, resilience and wellness philosophy. Prerequisites: NURS 332, 333, 334, 335, PSYC 201, and consent of department. Corequisite: NURS 401. (4 units)

401. Psych/Mental Health Nursing: Activity
Application in various ambulatory care settings with mentally and physically ill middle and older adults via recovery, resilience, and wellness philosophy. Materials fee required. Prerequisites: NURS 332, 333, 334, 335, PSYC 201, 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 in the interdisciplinary health team. Prerequisites: NURS 406, 407 and consent of department. Corequisite: NURS 405. (4 units)

405. Leadership in Nursing: Clinical
Clinical experience focusing on innovative nursing roles in various settings. Materials fee required. Prerequisites: 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: Clinical
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 factors in health care and nursing. Formerly NURS 350. Prerequisites: NURS 422 and consent of department. (2 units)

443. The Nurse as a Counselor
Exploration of assessment interviewing and counseling techniques focused upon those with healthcare issues. Differentiate between therapy and counseling and how to recognize when to refer. Identification of referral sources for follow-up. (4 units)

444. The Nurse as an Expert Clinician
Supports student’s self-evaluation of skills and knowledge in clinical expertise. Assists the individual student to go beyond with advanced clinical skills and expertise. Opportunities to expand knowledge and skills will be explored including expansion of nursing roles such as manager of care, informatics, clinical management and quality assurance. (4 units)

445. The Nurse as a Change Agent
Nurses are always in a position to make changes in individuals, families and communities. This course will explore theories related to change focusing on health promotion and disease prevention. (4 units)

446. The Nurse as a Mentor: Activity
Focuses upon further advancement of patient and unit management proficiency in any healthcare setting. (4 units)

483. The Nurse as a Lifelong Learner: Advanced Practice Models
Designed to introduce learners to the opportunities in pursuit of a master’s and doctoral degrees in nursing. Advanced practice models will be explored via classroom, online and seminar. (4 units)

494. Senior Seminar
This course is the culmination of the program’s emphasis upon research and professional writing. Students will present their two-year study in small groups, will complete the research paper and will present a professional poster session. (4 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. Advanced Physical/Health Assessment of Children and Adolescents
Seminar presents techniques related to physical and health assessment, in the school or community setting, including vision, scoliosis, and dental screenings. Emphasis is on the common morbidities and mortalities of these age groups and the interrelationship of the physical, emotional, and socioeconomic causes of health problems and illnesses. 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)

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: 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. (1-6 units)
NUTRITION AND FOOD SCIENCES

Approved as a Didactic Program in Dietetics by the American Dietetic Association (ADA)

Department of Health Science and Human Ecology
Physical Sciences Building, Room 226
(909) 537-5340  health.csusb.edu

Bachelor of Science
Nutrition and Food Sciences

Minor
Nutrition and Food Sciences

FACULTY: Dorothy Chen-Maynard, 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 registered dietitians (RD). Also, graduates may work as dietary aides, and in many other food- and nutrition-related jobs.

B.S. IN NUTRITION AND FOOD SCIENCES
Requirements (116-118 units)
Total units required for graduation: 180-181

Requirements for the B.S. in Nutrition and Food Sciences:

Note: All upper-division courses with an HSCI prefix or any course approved for upper-division Health Science substitutions require a grade of "C" (2.0) or better. Certain required courses also apply in the university's general education program (See Page 68).

Lower-division requirements (53-55 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. Introduction to 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 (4)
12. MATH 110. College Algebra (4)
13. Four units chosen from:
   PSYC 100. Introduction to Psychology (4)
   SOC 100. Introduction to Sociology (4)

Upper-division requirements (63 units)
1. HSCI 315. Statistics for the Health Sciences (4)
2. HSCI 345. Advanced Food Science (5)
3. HSCI 350. Principles of Nutrition (4)
4. HSCI 365. Nutrition Throughout the Life Cycle (4)
5. HSCI 384. Nutrition Assessment and Research (2)
6. HSCI 441. Nutritional Biochemistry and Metabolism (4)
7. HSCI 442. Advanced Human Nutrition (2)
8. HSCI 443. Medical Nutrition Therapy I (4)
9. HSCI 444. Medical Nutrition Therapy II (4)
10. HSCI 445. Community Nutrition (4)
11. HSCI 446. Senior Seminar in Dietetic Education (1)
12. HSCI 465. Foodservice Production and Procurement (5)
13. HSCI 467. Foodservice Systems Management (4)
14. Four units chosen from:
   MGMT 302. Management and Organizational Behavior (4)
   PSYC 302. Management and Organizational Behavior (4)
15. NSCI 306. Expository Writing for the Natural Sciences (4)
16. 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. HSCI 399 may not be used to meet the upper-division HSCI elective units for the degree.

Note: To receive the verification statement for successful completion of the Didactic Program in Dietetics, students must receive a grade of "B-" or better in their upper-division HSCI courses and an overall grade point average greater than 2.8.

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. CHEM 250. 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 224 for descriptions of HSCI courses.
PHILOSOPHY

Department of Philosophy
University Hall, Room 339
(909) 537-5869 philosophy.csusb.edu
Bachelor of Arts
Philosophy
Minor
Philosophical Logic
Philosophy
Philosophy, Policy, and Economics

FACULTY: Jill Buroker (Chair), Matthew Davidson, Susan Finsen (Emeritus), Beverly Gallo, Thomas Moody, Chris Naticchia, 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 students for the more challenging jobs they will encounter as their 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)

1. History of Philosophy (12 units)
   Twelve units as follows:
   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)

2. Logic (4 units)
   PHIL 300. 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 chosen 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)

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. 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 courses in Advanced Issues 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.

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, 353, 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, 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, 384A, 384B, 400 and 485.

Law and Politics: A major in philosophy is excellent preparation for law school because of its emphasis on analytical reasoning and writing. Students interested in careers in law or politics are advised to include among their electives at least three courses from PHIL 350, 351, 359, 361, 362, and 460.

Religious Studies: A major in philosophy is excellent preparation for graduate study in theology. Students interested in careers in theology are advised to include among their electives at least three courses from PHIL 192, 312, 372, 375, and 472.
MINOR IN PHILOSOPHICAL LOGIC

Requirements (24 units)  (see Addendum for program changes)

Requirements for a minor in Philosophical Logic:

Core requirements (12 units)
1. PHIL 200. Critical Thinking Through Symbolic Logic (4)
2. PHIL 300. Predicate Logic (4)
3. PHIL 382. Philosophy of Logic and Mathematics (4)

Electives (12 units)
1. Twelve units chosen from:
   PHIL 306. Inductive Logic (4)
   PHIL 308. Alternative Logics (4)
   PHIL 400. Advanced Issues in Logic: Introductory Metalogic (4)
   PHIL 400. Advanced Issues in Logic: Incompleteness and Computability (4)

The Minor in Philosophical Logic is open to students in any major. However, except for PHIL 200 and 300, courses taken for credit in the Minor in Philosophical Logic do not count toward satisfaction of the Philosophy major or minor.

MINOR IN PHILOSOPHY

Requirements (32 units)

Requirements for a minor in Philosophy:

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)
   PHIL 410. Advanced Issues in History of Philosophy (4)

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)

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.

MINOR IN PHILOSOPHY, POLICY, AND ECONOMICS

Requirements (28 units)

Requirements for a minor in Philosophy, Policy and Economics:

Requirements
1. Students must complete 28 units from the courses listed below with a minimum of eight units in each of the fields. Students who major in philosophy, political science or economics must earn 20 units outside their major from the courses listed below.

Course Requirements (28 units)

Philosophy (8-12 units)
PHIL 314. History of Modern Philosophy: Ethics and Politics (4)
PHIL 350. Ethics (4)
PHIL 353. Topics in Applied Ethics (4)
PHIL 359. Philosophy and Economics (4)
PHIL 361. Social and Political Philosophy (4)
PHIL 362. Philosophy of Law (4)
PHIL 460. Advanced Issues in Value Theory (4)

Economics (8-12 units)
ECON 443. Origins of Political Economy (4)
ECON 445. Political Economy (4)
ECON 500. History of Economic Thought (4)
ECON 520. Social Economics (4)
ECON 530. The Good Economy (4)

Political Science (8-12 units)
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)

DEPARTMENTAL HONORS
To attain departmental honors, a student must write a successful honors thesis under the guidance of a faculty committee. To qualify for the honors program a student must have:
1. An overall grade point average of 3.0 ("B");
2. A grade point average of 3.5 in philosophy courses;
3. At least five philosophy courses must have been taken at California State University, San Bernardino, one of which may be lower-division, not counting courses satisfying the general education requirements.

Application for the honors program must be made in writing to the department three quarters before graduation.

COURSE OFFERINGS IN PHILOSOPHY (PHIL)

Lower Division

101. Moral Choices in Life
Fundamentals of ethical reasoning. Introduction to moral theories and methods of moral decision making. Focus on such issues as ethics in the workplace, responsible citizenship, euthanasia, and responsibilities to the homeless, the environment and animals. (GE=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: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C4) (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: satisfaction of the GE written communication (A1) requirement or equivalent. (GE=C4) (4 units)

192. Introduction to Philosophy of Religion
Introductory treatment of philosophical issues raised by religion and religious belief; discussion of issues such as relations between faith, belief and knowledge, arguments for the existence of god, the problem of evil, and immortality. Prerequisite: satisfaction of the GE written communication (A1) requirement 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: satisfaction of the GE written communication (A1) requirement 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: satisfaction of the GE written communication (A1) requirement 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 and 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)

306. Inductive Logic
Principles of reasoning underlying the scientific method. Topics include hypothesis formation and testing, foundations and philosophical interpretation of probability and decision theory. Formerly a topic under PHIL 400. Prerequisites: PHIL 200 and satisfaction of the GE Philosophy (C4) requirement. (4 units)

308. Alternative Logics
Formal systems possibly including modal logics, conditional logics, many-valued logics and relevant logics alternative to classical symbolic logic. Formerly a topic under PHIL 400. Prerequisite: PHIL 200 or consent of instructor. (4 units)

310. Introduction to Philosophical Methodology
Intensive introduction to philosophical methods: identification and analysis of philosophical arguments, analytical reading of philosophical texts, and techniques for constructing and evaluating philosophical theories and arguments. May be repeated for credit, four units may count toward the major and eight units may be applied toward graduation. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

311. Ancient Philosophy
Introduction to the origins 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)

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)

351. Topics in Moral and Political Philosophy
Consideration of select problems in moral and political theory. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

353. Topics in Applied Ethics
Study of different issues in applied ethics and political theory such as environmental ethics, business ethics, global ethics, international justice, international human rights, ethics in the helping professions, and philosophical economics. May be repeated for credit as topics change. 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)

359. Philosophy and Economics
Study of issues at the intersection of economics and moral and political philosophy, e.g., classic accounts of the nature of value, the nature of justice, the nature of rationality, the measurability of human well-being. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

361. Social and Political Philosophy
An examination of major perspectives on how societies should be organized. Study of central issues such as legitimacy of government, and rights versus obligations; or of major concepts such as justice, equality, rights, class, patriarchy and power. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (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)

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)

382. Philosophy of Logic and Mathematics
Philosophical issues raised by logic and mathematics, such as the nature of logical and mathematical truth, the relations between logic, mathematics and the world, and justification for logical and mathematical systems. Formerly a topic under PHIL 485. Prerequisites: MATH 110 or equivalent, PHIL 200, and satisfaction of the 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)

390. Topics in Philosophy
Study of a specially-selected figure, movement, problem, or theory in philosophy. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

400. Advanced Issues in Logic
Discussion of issues such as axiomatic logic, proofs of soundness and completeness, multi-valued logics, modal logics and/or other alternative logics. May be repeated for credit as topics change. Prerequisite: PHIL 300 or consent of instructor. (4 units)

410. Advanced Issues in History of Philosophy
An intensive study of one or more philosophical figures. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement. (4 units)

460. Advanced Issues in Value Theory
Intensive study of topics in ethics, social philosophy and/or political philosophy. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement. (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 and satisfaction of the GE upper-division writing requirement. (4 units)
485. **Advanced Issues in Metaphysics and Knowledge**

Intensive study of topics in metaphysics, philosophy of language, theory of knowledge and/or philosophy of science. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement. (4 units)

490. **Philosophical Topics**

Study of a specially selected figure, movement, problem or theory in philosophy. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

516. **Senior Project**

Preparation and submission of a portfolio of writing representing successful work in the philosophy major, accompanied by a reflective essay showing the extent to which the student has satisfied the objectives and goals of the major. Prerequisite: completion of 135 units, including 36 units of the philosophy major. Graded credit/no credit. (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. (2-5 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. (2-4 units)
PHYSICS

Department of Physics
Physical Sciences Building, Room 119
(909) 537-5397  physics.csusb.edu

Bachelor of Arts
Physics

Bachelor of Science
Physics
Applied Physics

Minor
Physics
Applied Physics

FACULTY: Leo Connolly (Emeritus), Paul Dixon (Chair), Karen Kolehmainen, Paul Renteln, 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; CSE 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 - The campus provides 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, 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:

Lower-division requirements (53 units)
1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. PHYS 224. General Physics IV (3)
12. PHYS 225. General Physics V (3)

Upper-division requirements (28 units)
1. MATH 331. Linear Algebra (4)
2. PHYS 306. Classical Mechanics I (4)
3. PHYS 313. Electrodynamics I (4)
4. PHYS 324. Statistical and Thermal Physics (4)
5. PHYS 373. Mathematical Methods of Physics I (4)
6. PHYS 421. Quantum Mechanics I (4)
7. PHYS 430. Advanced Physics Laboratory (4)

Electives (8 units)
1. Eight units chosen from upper-division physics courses selected with the approval of the department:
   PHYS 307. Classical Mechanics II (4)
   PHYS 314. Electrodynamics II (4)
   PHYS 315. Introduction to Modern Optics (4)
   PHYS 318. Materials Science and Engineering (4)
   PHYS 370. Introduction to Astrophysics (4)
   PHYS 422. Quantum Mechanics II (4)
   PHYS 450. Solid State Physics (4)
   PHYS 461. Introduction to Nuclear Physics (4)
   PHYS 463. Introduction to Elementary Particle Physics (4)
   PHYS 473. Mathematical Methods of Physics II (4)
   PHYS 480A. Topics in Classical Physics: Mechanics (4)
   PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
   PHYS 485. Topics in Contemporary Physics (1-4)
   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)
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)
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 (4)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (8)
3. CSE 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 225. General Physics V (3)

Upper-division requirements (44 units)

1. MATH 331. Linear Algebra (4)
2. PHYS 306. Classical Mechanics I (4)
3. PHYS 307. Classical Mechanics II (4)
4. PHYS 313. Electrodynamics I (4)
5. PHYS 314. Electrodynamics II (4)
6. PHYS 324. Statistical and Thermal Physics (4)
7. PHYS 373. Mathematical Methods of Physics I (4)
8. PHYS 421. Quantum Mechanics I (4)
9. PHYS 422. Quantum Mechanics II (4)
10. PHYS 430. Advanced Physics Laboratory (4)
11. PHYS 473. Mathematical Methods of Physics II (4)

Electives (12 units)

1. Eight units chosen from upper-division physics courses selected with the approval of the department:
   PHYS 315. Introduction to Modern Optics (4)
   PHYS 316. Materials Science and Engineering (4)
   PHYS 370. Introduction to Astrophysics (4)
   PHYS 400. Solid State Physics (4)
   PHYS 461. Introduction to Nuclear Physics (4)
   PHYS 463. Introduction to Elementary Particle Physics (4)
   PHYS 473. Mathematical Methods of Physics II (4)
   PHYS 480A. Topics in Classical Physics: Mechanics (4)
   PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
   PHYS 485. Topics in Contemporary Physics (1-4)
   PHYS 573. Mathematical Methods of Physics III (4)
   PHYS 590. Physics Seminar (1)
   PHYS 595. Independent Study (1-6)

2. Four units of computer science course work at the 200-level or above selected with the approval of the Physics Department.

MINOR IN APPLIED PHYSICS
Requirements (54 units)

Requirements for a minor in Applied Physics:

Lower-division requirements (42 units)

1. CSE 201. Computer Science I (4)
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)
7. PHYS 150. Introductory Electronics (5)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. PHYS 224. General Physics IV (3)
12. PHYS 225. General Physics V (3)
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Upper-division requirements (12 units)
1. PHYS 350. Data Acquisition and Control (4)
2. PHYS 352. Advanced Electronics (4)
3. PHYS 373. Mathematical Methods of Physics I (4)

Note: The MATH 252 prerequisite for PHYS 373 will be waived for the applied physics minor.

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;
2. Conduct advanced research on a topic approved by a faculty member who will serve as project director;
3. Obtain written approval upon successful completion of the project from the project director and the chair, and present the results of the research to the department or at a research conference, and/or publish the results in a peer-reviewed scientific journal.

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: completion of the general education requirement in mathematics, category B1. (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) (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, MATH 212. Recommended: MATH 213. (5 units)

223. General Physics III
Third course in 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. (5 units)

224. General Physics IV
Fourth course of a five-course sequence in introductory physics for scientists and engineers. An introduction to thermodynamics, kinetic theory and quantum mechanics. Three hours lecture. Prerequisite or corequisite: PHYS 223 or consent of instructor. (3 units)

225. General Physics V
Fifth course of a five-course sequence in introductory physics for scientists and engineers. An introduction to special relativity, the photon theory of electromagnetic radiation, atomic physics, nuclear physics, and elementary particle physics. Three hours lecture. Formerly PHYS 228. Prerequisite: PHYS 224 or consent of instructor. (1-2 units)

295. Special Projects in Physics
Individual investigation, research, study or survey of selected problems. May be repeated for credit. Prerequisite: consent of instructor. (1-2 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 225 and 373 with a grade of "C" or better in each course. (4 units)

307. Classical Mechanics II
A continuation of PHYS 306 with emphasis on systems of particles, and rigid bodies. Four hours lecture. Formerly PHYS 406. Prerequisite: PHYS 306 with a grade of "C" or better. (4 units)

313. Electrodynamics I
Derivation and applications of Maxwell's equations. Four hours lecture. Prerequisites: PHYS 225 and 373 with a grade of "C" or better in each course. (4 units)

314. Electrodynamics II
A continuation of PHYS 313 with advanced applications of Maxwell's equations and electromagnetic waves. Four hours lecture. Formerly PHYS 414. Prerequisite: PHYS 313 with a grade of "C" or better. (4 units)
315. Introduction to Modern Optics
An introduction to geometrical optics, physical optics and lasers. Four hours lecture. Prerequisite: PHYS 313 with a grade of "C" or better. (4 units)

318. Materials Science and Engineering
Fundamental materials science concepts with applications. Topics include structural, electrical and thermal properties of materials, phase diagrams, interfaces, and electronic band structure. Four hours lecture. Prerequisites: CHEM 215, PHYS 224 and 373. (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. Prerequisites: MATH 252 and PHYS 225 with a grade of "C" or better in each course. (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 computer-based data analysis. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: PHYS 300 and 373 with a grade of "C" or better in each course. (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 373 with a grade of "C" or better in each course. (4 units)

370. Introduction to Astrophysics
Basic principles of stellar structure and evolution, galactic structure, extragalactic astronomy and cosmology. Four hours lecture. Prerequisites: PHYS 225 and 373 with a grade of "C" in each course. (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. Prerequisites: PHYS 225 and MATH 252. MATH 331 is recommended. (4 units)

421. Quantum Mechanics I
Introduction to quantum mechanics. Topics include the origins of quantum theory, angular momentum, the Dirac formalism, 2-level systems and the harmonic oscillator. Four hours lecture. Formerly PHYS 322. Prerequisites: MATH 331, PHYS 225, and 306 with a grade of "C" or better in each course. (4 units)

422. Quantum Mechanics II
Continued study of the principles of quantum mechanics introduced in PHYS 421. 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, 314, and 421 with a grade of "C" or better in each course. (4 units)

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 with a grade of "C" or better. Recommended: PHYS 421. (4 units)

450. Solid State Physics
A lecture course exploring selected topics in condensed matter physics. May be repeated for credit as topics change. Four hours lecture. Prerequisites: PHYS 318, 421, and 473 with grades of "C" or better. (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 and 422 with a grade of "C" or better in each course. (4 units)

473. Mathematical Methods of Physics II
A continuation of PHYS 373. Topics covered include functions of a complex variable and partial differential equations. Prerequisite: PHYS 373. MATH 331 and PHYS 225 are strongly recommended. (4 units)

480. Topics in Classical Physics
Further treatment of topics in physics introduced in previous courses.
A. Mechanics. Prerequisite: PHYS 307 with a grade of "C" or better. (4 units)
B. Electrodynamics. Prerequisite: PHYS 314 with a grade of "C" or better. (4 units)

485. 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. (1-4 units)

573. Mathematical Methods of Physics III
A continuation of PHYS 473 with emphasis on advanced topics relevant to physics. Prerequisites: MATH 331 and 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. Prerequisites: consent of instructor and department. (2-4 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 file in advance of the quarter in which the course is to be taken. (1-6 units)
POLITICAL SCIENCE

Department of Political Science
Social and Behavioral Sciences Building, Room 112
(909) 537-5535 polisci.csusb.edu

Bachelor of Arts
Political Science
Minor
Philosophy, Policy, and Economics
Political Science
Pre-law

Master of Arts
National Security Studies
(Degree requirements can be found on Page 511.)

Certificate Program
Intelligence Methodology
(Certificate requirements can be found on Page 513.)

FACULTY: Donovan Chau, Mark Clark, Antony Field,
Brian Janiskee (Chair), Alemaeyhu Mariam, 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)
   PSCI 528. Formulation of Public Policy (4)
5. Comparative government
   Eight units chosen from:
   PSCI 300. Western Political Systems (4)
   PSCI 301. African Politics (4)
   PSCI 304. East European Political Systems (4)
   PSCI 305. East Asian Politics (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 484. National Security Policy (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)
   PSCI 520. War and Politics (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)
   PSCI 525. Constitutional Interpretation (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 PHILOSOPHY, POLICY, AND ECONOMICS

Requirements (28 units)

Requirements for a minor in Philosophy, Policy and Economics
1. Students must complete 28 units from the courses listed below with a minimum of eight units in each of the fields. Students who major in philosophy, political science or economics must earn 20 units outside their major from the courses listed below.

Course Requirements (28 units)
1. Philosophy (8-12 units), chosen from:
   PHIL 314. History of Modern Philosophy: Ethics and Politics (4)
   PHIL 350. Ethics (4)
   PHIL 353. Topics in Applied Ethics (4)
   PHIL 359. Philosophy and Economics (4)
   PHIL 361. Social and Political Philosophy (4)
   PHIL 362. Philosophy of Law (4)
   PHIL 460. Advanced Issues in Value Theory (4)
2. Economics (8-12 units), chosen from:
   ECON 443. Origins of Political Economy (4)
   ECON 445. Political Economy (4)
   ECON 500. History of Economic Thought (4)
   ECON 520. Social Economics (4)
   ECON 530. The Good Economy (4)
3. Political Science (8-12 units), chosen from:
   PSCI 310. Classical Political Thought (4)
   PSCI 311. Foundations of Modern Political Thought (4)
Certificate Requirements (32 units)
1. Twenty units chosen from:
   - PSCI 300. Western Political Systems (4)
   - PSCI 301. African Politics (4)
   - PSCI 304. East European Political Systems (4)
   - PSCI 305. East Asian Politics (4)
   - PSCI 306. Developing Political Systems (4)
   - PSCI 308. Government and Politics of the Middle East (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:
   - ECON 420. Comparative Economic Systems (4)
   - ECON 430. International Economics (4)
   - ECON 435. Multinational Corporations (4)
   - ECON 450. Global Economy (4)
   - FIN 433. International Business Finance (4)
   - FIN 534. Export-Import Financing (4)
   - FIN 581. International Aspects of Finance (4)
   - HIST 503. Europe Since 1945 (4)
   - HIST 556. Foreign Relations of the United States (4)
   - MGMT 304. International Organizational Behavior (4)
   - MGMT 405. Managing Across Borders (4)
   - MGMT 406. International Business Law (4)
   - MGMT 407. Comparative Management Systems of the Americas (4)
   - MKTG 470. International Marketing Management (4)
   - MKTG 572. Import-Export Management (4)
   - SSCI 300. Nonwestern World (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.

PI SIGMA ALPHA

Qualified students may join the CSUSB Chapter of Pi Sigma Alpha, the national political science honor society. Student must have completed at least 15 quarter hours or ten semester hours of work in political science 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. Seniors must have at least a 3.0 average or higher in all political science courses and at least a 3.0 average overall. Juniors must have at least a 3.25 grade point average overall and in all political science courses. 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. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after approval to the appropriate campus authority. See Page 60 for additional certificate information.
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)

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 methods, purposes of public administration, 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)

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)
520. War and Politics
The study of the origins and political consequences of war. (4 units)

525. Constitutional Interpretation
Examination of theories and approaches to constitutional interpretation. (4 units)

528. Formulation of Public Policy
Approaches to public policy analysis, emphasizing interaction between substance and process in policy development. Formerly PSCI 428. (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. May be repeated as topics change. 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. (2-4 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 by the first week of the quarter in which the course is to be taken. (2-4 units)

597. Senior Honors Thesis
In-depth research culminating in a written thesis. Written proposals may be submitted by seniors with a 3.5 grade point average in all political science courses. Enrollment is limited to those students whose proposals are approved by a faculty member with consent of the chair. (4 units)

Graduate level courses can be found on Page 519.
PSYCHOLOGY

Department of Psychology
Social and Behavioral Sciences Building, Room 425
(909) 537-5570  psychology.csusb.edu

Bachelor of Arts
Psychology
Psychology - Biological Psychology

Minor
Psychology

Master of Arts
Child Development
(Degree requirements can be found on Page 402.)
Psychology
(Degree requirements can be found on Page 520.)

Master of Science
Psychology
(Degree requirements can be found on Page 521.)


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 (64-66 units)

Total units required for graduation: 180

As prerequisites for acceptance into the B.A. in Psychology or Biological 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 in PSYC 311 for the following quarter with the understanding that all pre-psychology requirements will be completed successfully. Prior to completing the prerequisites, students who have completed PSYC 100 may proceed with upper division major requirements with the exception of PSYC 311 and the upper division laboratories.

Requirements to enter the B.A. in Psychology:
1. Completion of the following:
   • General Education Basic Skills in English (A1)
     One of the following:
     ENG 104A. Stretch Composition III
     ENG 104B. Stretch Composition III for Multilingual Students
     ENG 106. Accelerated Stretch Composition II
     ENG 107. Advanced First-Year Composition
   • General Education Basic Skills in Mathematics (A3)
     One of the following:
     MATH 110. College Algebra
     MATH 115. The Ideas of Mathematics
     MATH 120. Pre-Calculus Mathematics
     MATH 192. Methods of Calculus
     MATH 211. Basic Concept of Calculus
   • PSYC 100. Introduction to Psychology, or its equivalent
     (also satisfies General Education category D4)
   • PSYC 101. Psychology as a Major
   • PSYC 210. Psychological Statistics or its equivalent
2. The grade earned in the above courses must be no lower than a "C" (2.0).

Students are encouraged to petition for the "Pre-psychology major" and to complete PSYC 101 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)
3. PSYC 210. Psychological Statistics (5)
4. PSYC 311. Introduction to Experimental Psychology (6)
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)
8. Advanced Culminating Experience (4-6 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)
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 (4 units)
Four units chosen from:
PSYC 421. Advanced Seminar in Psychology: Developmental (4)
PSYC 422. Advanced Seminar in Psychology: Clinical (4)
PSYC 423. Advanced Seminar in Psychology: Biological (4)
PSYC 424. Advanced Seminar in Psychology: Social (4)
PSYC 425. Advanced Seminar in Psychology: Personality (4)
PSYC 426. Advanced Seminar in Psychology: Learning and Motivation (4)
PSYC 427. Advanced Seminar in Psychology: Cognition and Perception (4)
PSYC 428. Advanced Seminar in Psychology: Industrial and Organizational (4)

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

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. Tests and Measurements (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:
   May choose only one of the following two courses:
   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)
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 Biopsychology
   Eight units chosen from:
   PSYC 362. Learning and Motivation (4)

B.A. IN PSYCHOLOGY -
PSYCHOLOGICAL PSYCHOLOGY

Requirements (66 units)
Total units required for graduation: 180

Requirements for the B.A. in Psychology -
Psychological Psychology:
1. PSYC 100. Introduction to Psychology (4)
2. Fields of Psychology
   Four 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)
3. Basic Processes
   Four units chosen from:
   PSYC 357. History and Systems of Psychology (4)
   PSYC 360. Cognitive 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.

10. Advanced Culminating Experience
Six units chosen from:
PSYC 433. Experimental Psychology: Biological (6)
PSYC 436. Experimental Psychology: Learning and Motivation (6)

11. Upper-division biopsychology electives
Twelve units chosen from:
PSYC 318. Health Psychology (4)
PSYC 324. Developmental Psychobiology (4)
PSYC 333. Drugs and Behavior (4)
PSYC 339. Human Psychophysiology (4)
PSYC 362. Learning and Motivation (4)
PSYC 365. Cognitive Neuroscience (4)
PSYC 367. Neuropsychiatric Disorders (4)
PSYC 410. Advanced Psychological Statistics (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)

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 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)
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.

May choose only one of the following two courses:
ANTH 327. Primate Evolution and Ecology (4)
BIOL 306. Human Heredity and Development (4)
DEPARTMENTAL HONORS

Students majoring in psychology are eligible to receive honors in psychology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.25 or better;
4. Completion of the three-quarter Honors Program with a grade of "B" (3.0) or better each quarter:
   - PSYC 597. Honors Seminar
   - PSYC 598A. Honors Project I
   - PSYC 598B. Honors Project II

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) (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 or SCM 210. Four hours lecture and three hours of laboratory. Materials fee required. (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)

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. Language Development
   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: HD 240 or PSYC 201 or 240. (4 units)

308. Psychology and the Movies
   Exploring psychology through the movies. Movies will be screened during class and used as a vehicle for discussing such psychological topics as mental illness, the portrayal of psychiatry and therapy, creativity, relations between different ethnicities and cultures, gender issues, biases and prejudices, and other essential topics. Formerly a topic under PSYC 375. (4 units)

310. Applied Research Methods
   Overview of applied research methods in psychology and the behavioral sciences. Emphasis on the use of applied methods, their analyses, and scientific writing. Topics may include quasi-experimental design, correlational design, behavioral observation, archival analysis, single-case methodology, survey methodology, research ethics, library research strategies, and writing research reports. (Also offered as HD 310. Students may not receive credit for both.) Prerequisites: PSYC 100 and 210. (4 units)

311. Introduction to Experimental Psychology
   Design and execution of psychological research. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: PSYC 100 and 210; 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. Materials fee required. Prerequisite: PSYC 100. (5 units)

318. Health Psychology
   Examination of psychological aspects of health related behaviors with emphasis on the effects of interpersonal and social psychological factors on physical health and effective medical care. Prerequisite: PSYC 100. (4 units)

320. Psychology of Middle Childhood
   Theories and their applications to physical, cognitive, social and emotional development during the middle childhood years. A field based component will be required. (4 units)
324. Developmental Psychobiology
Psychobiological bases of human behavioral development throughout the life span. (Also offered as HD 324. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

328. Psychology of Adolescent Development
Theory and empirical literature concerning the physical, cognitive, social, and emotional changes from puberty to adulthood. A field based component will be required. (4 units)

329. Psychology of Adulthood and Aging
An examination of physical, social, cognitive, and personality development from young adulthood through death. Special attention is given to theory, research, and applications in the area of gerontology. Prerequisites: PSYC 100 and 201, or consent of instructor. (4 units)

331. The Psychology of Women
A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. Prerequisite: PSYC 100. (4 units)

333. Drugs and Behavior
Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. Prerequisite: PSYC 100 or consent of instructor. (4 units)

334. Addiction and Recovery
Research and theories related to the psychological, behavioral and physiological basis of addiction and recovery. A variety of common addictive disorders will be considered including eating, smoking, gambling, work, sex and drugs. Prerequisite: PSYC 100 or consent of instructor. (4 units)

339. Human Psychophysiology
An examination of the human psychophysiological literature with emphasis on research findings, clinical applications and theory related to the analysis of the relationships between bodily processes, psychological states and behavior. Prerequisite: PSYC 100 or consent of instructor. (4 units)

340. Stereotyping, Prejudice, and Discrimination
Psychological underpinnings of stereotyping, prejudice, and discrimination are examined. Implicit and explicit attitudes of bias such as sexism, racism, and homophobia, and the effects of these attitudes on the self and health, and interventions that reduce attitudes are studied. Prerequisite: PSYC 100 or consent of instructor. (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, or PSYC 201. (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 363 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)
368. MARC Seminar I
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. (Also offered as NSCI 368 and SSCI 368. Students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved. (2 units)

370. Topics in Psychology
Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: PSYC 100. (2 units)

372. Psychology of Death and Dying
A review of current theory and research on the psychology of grief, death and dying. (Also offered as HD 372. Students may not receive credit for both.) Prerequisite: PSYC 201 or equivalent. (4 units)

375. Seminar in Psychology
Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change. Prerequisite: PSYC 100. (4 units)

377. Tests and Measurements
Administration of psychological tests and scales; interpretation and use of the data which they yield. Prerequisites: PSYC 100 and 210. (4 units)

381. Forensic Psychology
Major issues relevant to the field of forensic psychology. Current research and theory in psychology applicable to the understanding and practice of forensic science in areas including law enforcement, criminal justice, and human services, such as child and adult protective services. Formerly a topic under PSYC 375. Prerequisite: PSYC 100. (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. Includes a practicum in administering and interpreting selected developmental screening tests. Four hours lecture and three hours practicum. (Also offered as HD 400. Students may not receive credit for both.) Materials fee required. Prerequisites: one of the following: HD 240, 280, PSYC 201 or 240; and one of the following: HD 245, 246 or 247. (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. Materials fee required. Prerequisites: PSYC 210 or SCM 210; 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. Materials fee required. Prerequisites: PSYC 201 and 311 or consent of instructor. (6 units)

432. Experimental Psychology: Clinical
Empirical studies in clinical psychology. Study options include experimen-mental psychopathology, adaptation and coping, health promotion, anxiety/stress, mood/emotion and cultural factors in diagnosis and treatment. Four hours lecture and six hours laboratory. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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)

468. MARC Seminar II
A selected examination of original research articles in behavioral and biomedical sciences focusing on improving scientific writing skills, shaping long-term research projects, and the development of research funding proposals. (Also offered as NSCI 468 and SSCI 468. Students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved. Prerequisite: NSCI 368, PSYC 368 or SSCI 368. (2 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 six 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)
E. Ethical Issues in Organizations (2 units)
F. Diversity in Organizations (2 units)
G. Legal Issues for Organizational Professionals (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 require-ments 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. (2-4 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)
328 / Psychology

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. (Also offered as HD 597. Students may not receive credit for both.) 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. I. (Also offered as HD 598A. Students may not receive credit for both.) Prerequisites: PSYC 597 and consent of department.
(2 units)
B. II. (Also offered as HD 598B. Students may not receive credit for both.) Prerequisites: PSYC 598A and consent of department.
(2 units)
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 74. The Master of Public Administration can be found on Page 527. 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

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. Prerequisites: PA 380 and the upper-division writing requirement. (4 units)

463. Governmental Budgeting
Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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, the upper-division writing requirement, PA 307, 315, 380, 462, 463 and 472, or consent of instructor. (4 units)

501. Administrative Leadership
Theory and practice of leading public sector organizations. Topics include leader traits, skills, styles, behaviors, development and evaluation. Formerly a topic under PA 590. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (4 units)

521. Principles of Planning
Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. Prerequisite: the upper-division writing requirement. (4 units)

540. Introduction to Tribal Management and Governance
Roles, responsibilities and structure of tribal governments. The historical and legal underpinnings of the inter-governmental relations between the U.S. government and Indian tribes. Also explores relevant organization and management theories, concepts and tools as applied to the management of tribal governments. Formerly a topic under PA 590. (4 units)
330 / Public Administration

542. Tribal Government Gaming and Economic Development
The historical and legal foundations and practices of tribal government gaming in the United States with particular attention focused on California. Includes an analysis of tribal governance, economic development, social and economic impacts of tribal government gaming. Formerly a topic under PA 590. (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. Prerequisite: the upper-division writing requirement. (4 units)
B. Data Base Management. Prerequisite: the upper-division writing requirement. (4 units)
C. Spread Sheet. Prerequisite: the upper-division writing requirement. (4 units)
D. Communication. Prerequisite: the upper-division writing requirement. (4 units)
E. Networking (4 units)
F. Special Problems. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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 468. Students may not receive credit for both.) Prerequisite: ACCT 211 and the upper-division writing requirement. (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)
3. SSCI 499. Senior Seminar (2)

2. ANTH 102. Introduction to Anthropology: Culture and Evolution (4)

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)

Primary Field (30 units, Secondary Field 16 units)

Primary Field (30 units):
1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. SSCI 499. Senior Seminar (2)
4. Four units chosen from:
   ANTH 300. Archaeology (4)
   ANTH 302. African Archaeology (4)
   ANTH 303. Prehistory of the Middle East and Europe (4)
   ANTH 305. North American Prehistory (4)
   ANTH 306. Aztecs, Maya and Their Predecessors (4)
   ANTH 307. Incas and Their Predecessors (4)
   ANTH 312. Historical Archaeology (4)
   ANTH 315. Archaeology of the Southwest and California (4)
   ANTH 323. Native North American Art (4)
   ANTH 324. Pre-Columbian Art (4)

5. Four units chosen from:
   ANTH 325. Human Biological Variation and the Concept of Race (4)
   ANTH 326. Human Origins (4)
   ANTH 327. Primate Evolution and Ecology (4)
   ANTH 328. Forensic Anthropology and Crime (4)

6. Four units chosen from:
   ANTH 351. Indians of North America (4)
   ANTH 352. Indians of the Southwest (4)
   ANTH 354. Cultures of Mexico and Central America (4)
   ANTH 356. Cultures of South America (4)
   ANTH 357. African Societies (4)
   ANTH 358. Peoples of the Middle East (4)
   ANTH 360. Peoples of Australia (4)
   ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
   ANTH 362. Peoples of Asia (4)
   ANTH 365. Asian American Cultures (4)

7. Eight units chosen from:
   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)
   ANTH 375. Museum Methods (4)
   ANTH 380. Gender and Language (4)
   ANTH 388. Language and Culture (4)
   ANTH 466. Anthropology of Health, Illness and Healing (4)
   ANTH 470. Globalization and Culture (4)
   ANTH 472. Colonial and Postcolonial Anthropology (4)
   ANTH 475. Cultural Ecology (4)
   ANTH 480. Magic, Religion and Science (4)
   ANTH 485. Applied Anthropology and Social Policy (4)
   ANTH 492. Economic Anthropology (4)
   ANTH 493. Urban Anthropology (4)
   ANTH 500. Great Ideas in Anthropology (4)

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. 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 320. Archaeological Survey and Excavation (5)
3.  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 Lesbian, Gay, Bisexual, 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)

7.  Eight units of additional upper-division economics course work.

Secondary Field (16 units):
1.  ECON 200.  Principles of Microeconomics (4)
2.  ECON 202.  Principles of Macroeconomics (4)
3.  Eight units of additional upper-division economics course work.

Ethnic Studies
(Primary Field 30 units, Secondary Field 16 units)

Note:  No course can be used in a primary or secondary field which has been used in any other part of the Social Science major.

Primary Field (30 units)
1.  ES 100.  Ethnicity and Race in America (4)
2.  ES 300.  Research Methods in Ethnic Studies (4)
3.  ES 394.  Topics in Ethnic Studies (4)
4.  SSCI 499.  Senior Seminar (2)
5.  Sixteen units chosen from:
   ANTH 306.  Aztecs, Maya, and Their Predecessors (4)
   ANTH 307.  Incas and Their Predecessors (4)
   ANTH 323.  Native North American Art (4)
   ANTH 325.  Human Biological Variation and the Concept of Race (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)
   ANTH 351.  Indians of North America (4)
   ANTH 352.  Indians of the Southwest (4)
   ANTH 354.  Cultures of Mexico and Central America (4)
   ANTH 356.  Cultures of South America (4)
   ANTH 357.  African Societies (4)
   ANTH 358.  Peoples of the Middle East (4)
   ANTH 360.  Peoples of Australia (4)
   ANTH 361.  Peoples of Micronesia, Melanesia and Polynesia (4)
   ANTH 362.  Peoples of Asia (4)
   ANTH 365.  Asian American Cultures (4)
   ANTH 375.  Museum Methods (4)
   ANTH 376.  Internship in Applied Cultural Anthropology (2-5)
   ANTH 377.  Internship in Archaeology (2-5)
   ANTH 378.  Magic, Religion and Science (4)
   ANTH 379.  Internship in Archaeology (2-5)
   ANTH 380.  Gender and Language (4)
   ANTH 388.  Language and Culture (4)
   ANTH 390.  Selected Topics in Anthropology (4)
   ANTH 391.  Selected Topics in Anthropology (2)

3.  Eight units of additional upper-division economics course work.

Secondary Field (16 units):
1.  ECON 200.  Principles of Microeconomics (4)
2.  ECON 202.  Principles of Macroeconomics (4)
3.  Eight units of additional upper-division economics course work.

Economics
(Primary Field 30 units, Secondary Field 16 units)

Primary Field (30 units):
1.  ECON 200.  Principles of Microeconomics (4)
2.  ECON 202.  Principles of Macroeconomics (4)
3.  ECON 300.  History of Economic Thought (4)
4.  SSCI 499.  Senior Seminar (2)
5.  Four units chosen 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)
   ECON 520.  Social Economics (4)

Secondary Field (16 units):
1.  ES 100.  Ethnicity and Race in America (4)
2.  ES 394.  Topics in Ethnic Studies (4)
3.  Eight units chosen from:
   ANTH 306.  Aztecs, Maya, and Their Predecessors (4)
   ANTH 307.  Incas and Their Predecessors (4)
Primary Field (31 units):
1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 420. Geography of Economic Activity (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units of upper-division geography course work, except GEOG 300 or 311. Also, no more than eight of these sixteen 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, except GEOG 300 or 311. Also, only four of these eight units of upper-division elective course work can be an area study.

Primary Field (30 units):
1. HIST 200. United States History to 1877 (4)
   or
   Eight units chosen from:
   HIST 350. The American Colonies, 1607-1783 (4)
   HIST 351. The Evolution of American Democracy, 1783-1840 (4)
   HIST 354. Civil War and Reconstruction (4)
2. HIST 201. United States History, 1877 to the Present (4)
   or
   Eight units chosen from:
   HIST 356. The United States, 1877-1917 (4)
   HIST 357. The United States, 1917-1945 (4)
   HIST 359. The United States, 1945-1980 (4)
3. HIST 305. Ancient and Medieval Europe (4)
   or
   Eight units as follows:
   HIST 400. Early Medieval Europe (4)
   HIST 401. Late Medieval Europe (4)
4. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
   or
   Eight units as follows:
   HIST 402. Renaissance and Reformation (4)
   HIST 403. The Age of Absolutism and Enlightenment (4)
5. HIST 307. Modern Europe, 1815 to the Present (4)
   or
   Eight units as follows:
   HIST 503. Europe Since 1945 (4)
   HIST 535. Studies in European National History (4)
6. SSCI 499. Senior Seminar (2)
7. Eight units of upper-division history course work.

Secondary Field (16 units):
1. Eight units of upper-division history course work and either Group 1 or 2 below:

   Group 1:
   1. HIST 200. United States History to 1877 (4)
   or
   Eight units chosen from:
   HIST 350. The American Colonies, 1607-1783 (4)
   HIST 351. The Evolution of American Democracy, 1783-1840 (4)
   HIST 354. Civil War and Reconstruction (4)
2. HIST 201. United States History, 1877 to the Present (4)
   or
   Eight units chosen from:
   HIST 356. The United States, 1877-1917 (4)
   HIST 357. The United States, 1917-1945 (4)
   HIST 359. The United States, 1945-1980 (4)

   Group 2:
   1. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
   or
   Eight units as follows:
   HIST 402. Renaissance and Reformation (4)
   HIST 403. The Age of Absolutism and Enlightenment (4)
2. HIST 307. Modern Europe, 1815 to the Present (4)
   or
   Eight units chosen from:
   HIST 503. Europe Since 1945 (4)
   HIST 535. Studies in European National History (4)

Political Science
(Primary Field 30 units, Secondary Field 16 units)
Primary Field (30 units):
1. PSCI 203. American Government (4)
2. PSCI 204. International Relations (4)
3. SSCI 499. Senior Seminar (2)
4. Twenty units of upper-division course work with at least four units from each of the following five fields:

   American Government and Politics
   Four units chosen from:
   PSCI 320. The Legislative Process (4)
   PSCI 326. Political Parties and Interest Groups (4)
   PSCI 431. The American Presidency (4)
   PSCI 528. Formulation of Public Policy (4)

   Comparative Government
   Four units chosen from:
   PSCI 300. Western Political Systems (4)
   PSCI 304. Communist Political Systems (4)
   PSCI 306. Developing Political Systems (4)
International Relations
Four units chosen from:
PSCI 325. American Foreign Policy (4)
PSCI 400. International Politics (4)
PSCI 484. National Security Policy (4)
PSCI 500. International Law (4)
PSCI 510. International Organization (4)

Political Theory
Four units chosen from:
PSCI 310. Classical Political Thought (4)
PSCI 311. Foundations of Modern Political Thought (4)
PSCI 313. Modern Political Thought (4)

Public Law
Four units chosen from:
PSCI 328. Judicial Process (4)
PSCI 410. American Constitutional Law (4)
PSCI 411. The Bill of Rights (4)

Secondary Field (16 units):
1. PSCI 204. International Relations (4)
2. Twelve units of upper-division course work, four units chosen from three of the five fields listed below:

American Government and Politics
Four units chosen from:
PSCI 320. The Legislative Process (4)
PSCI 326. Political Parties and Interest Groups (4)
PSCI 431. The American Presidency (4)
PSCI 528. Formulation of Public Policy (4)

Comparative Government
Four units chosen from:
PSCI 300. Western Political Systems (4)
PSCI 304. Communist Political Systems (4)
PSCI 306. Developing Political Systems (4)

International Relations
Four units chosen from:
PSCI 325. American Foreign Policy (4)
PSCI 400. International Politics (4)
PSCI 484. National Security Policy (4)
PSCI 500. International Law (4)
PSCI 510. International Organization (4)

Psychology
(Primary Field 31 units, Secondary Field 16 units)
Primary Field (31 units):
1. PSYC 100. Introduction to Psychology (4)
2. PSYC 210. Psychological Statistics (5)
3. SSCI 499. Senior Seminar (2)
4. Eight units chosen from:
   PSYC 201. Developmental Psychology (4)
   PSYC 382. Psychology of Social Behavior (4)
   PSYC 385. Personality (4)
   PSYC 390. Abnormal Psychology (4)
5. Four units chosen from:
   PSYC 360. Cognitive Psychology (4)
   PSYC 362. Learning and Motivation (4)
   PSYC 363. Biological Psychology (4)
   PSYC 364. Perception (4)
6. Four units chosen from:
   PSYC 315. Communication Processes (5)
   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)
7. Four units of upper-division psychology electives.

Secondary Field (16 units):
1. PSYC 100. Introduction to Psychology (4)
2. Four units chosen from:
   PSYC 201. Developmental Psychology (4)
   PSYC 382. Psychology of Social Behavior (4)
   PSYC 385. Personality (4)
   PSYC 390. Abnormal Psychology (4)
3. Four units chosen from:
   PSYC 360. Cognitive Psychology (4)
   PSYC 362. Learning and Motivation (4)
   PSYC 363. Biological Psychology (4)
   PSYC 364. Perception (4)
4. Four units chosen from:
   PSYC 315. Communication Processes (5)
   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 31 units, Secondary Field 16 units)
Primary Field (31 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. SSCI 499. Senior Seminar (2)
5. 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.

Women's Studies
(Primary Field 30 units, Secondary Field 16 units)
Note: No course can be used in a primary or secondary field which has been used in any other part of the Social Science major.

Primary Field (30 units)
1. GSS 100. Introduction to Women's Studies (4)
2. GSS 420. Feminist Theory (4)
3. GSS 425. Women as Agents of Social Change (4)
4. SSCI 499. Senior Seminar (2)
5. Sixteen units chosen from:
   ANTH 333. Sex and Gender in Cross-Cultural 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)
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 99-100 units needed for the core history program.

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, CE-102.

### Requirements for the B.A. in Social Sciences - Credential Track:

**Lower-division requirements (45 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. Four units chosen from:
   - ECON 200. Principles of Microeconomics (4)
   - ECON 202. Principles of Macroeconomics (4)
3. Four units chosen from:
   - GEOG 100. Introduction to Human Geography (4)
   - GEOG 103. Physical Geography (5)
4. Four units chosen from:
   - HIST 142. World Civilizations II, the Civilizations of the East and West (4)
   - HIST 144. World Civilizations III, the Expansion of Europe (4)
5. Four units chosen from:
   - HIST 200. United States History to 1877 (4)
   - HIST 201. United States History, 1877 to the Present (4)

**Upper-division requirements (50 units)**

1. Four units chosen from:
   - HIST 301. History of Ancient Greece (4)
   - HIST 321. History of Rome (4)
2. Four units chosen from:
   - HIST 370. History of California (4)
   - HIST 382. Modern Europe, 1815 to the Present (4)
3. Four units chosen from:
   - HIST 383. Classical Islamic Civilization (4)
   - HIST 384. Modern Middle East (4)
4. Four units chosen from:
   - HIST 385. Africa to 1500 (4)
   - HIST 386. Africa 1500 to 1870 (4)
5. Eight units chosen from:
   - HIST 387. Africa 1870 to Present (4)
   - HIST 388. Medieval China (4)

**B.A. IN SOCIAL SCIENCES - CREDENTIAL TRACK**

**Requirements (99-100 units)**

**Total units required for graduation: 180**

Students who wish to teach social science subjects in California's secondary schools will have to be classified as "highly qualified" teachers as required by federal No Child Left Behind guidelines. In order to meet this qualification they will have to pass the California Subject Examination for Teachers (CSET), which encompasses knowledge and understanding primarily of history, but also geography, economics, and political science. Passing this exam means that the prospective teacher is considered to be "highly qualified" in each of these four subject areas. One effective way to be prepared to pass the exam is to complete the B.A. in Social Sciences, Credential Track. 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 disciplines of geography, economics, or political science. Any of these options would add 32-37 units to the 99-100 units needed for the core history program.

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, CE-102.
ECON 372. Business Cycles (4)
ECON 360. Economics of the Environment (4)

6. 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)
   - HIST 357. The United States, 1917-1945 (4)
   - HIST 359. The United States, 1945-1980 (4)
   - HIST 350. Constitutional History of the United States (4)
   - HIST 356. Foreign Relations of the United States (4)

7. Four units chosen from:
   - HIST 341. African-American History, 1865-Present (4)
   - HIST 342. American Indian History (4)
   - HIST 344. Women in U.S. History, 1620-1865 (4)
   - HIST 345. Women in U.S. History, 1865-Present (4)
   - HIST 346. Women in the Black Freedom Movement (4)
   - HIST 371. California Indian History (4)
   - HIST 391. Chicano History (4)
   - HIST 541. U.S. Citizenship and Law (4)
   - HIST 565. Immigration and Ethnic American History (4)

8. Four units chosen from:
   - 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)

9. Four units chosen from:
   - PSCI 300. The Legislative Process (4)
   - PSCI 304. The Presidency (4)
   - PSCI 305. Interest Groups (4)
   - PSCI 306. The American Presidency (4)
   - PSCI 308. Formulation of Public Policy (4)
   - PSCI 499. Senior Seminar (2)

10. 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)

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)

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. Tools of Economic Analysis (4)
2. ECON 350. History of Economic Thought (4)
3. ECON 351. Economics in the Classroom (4)
4. Four units chosen from:
   - 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 Transgendered People (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)
   - ECON 390. Selected Topics in Economics (4)
   - ECON 410. Money and Banking (4)
   - ECON 430. International Economics (4)
   - ECON 475. Public Finance (4)


Geography Option (32 units)

1. GEOG 312. Geography of the Developing World (4)
2. GEOG 313. Geography of the Developed World (4)
3. GEOG 320. Geography of Social Issues (4)
4. GEOG 322. United States and Mexican Border Issues (4)
5. GEOG 323. North America (4)
6. GEOG 350. Conservation and Natural Resources (4)
7. GEOG 420. Geography of Economic Activity (4)
8. Four units chosen from:
    - GEOG 415. Urban Planning and Land Development (4)
    - GEOG 440. Understanding the City (4)

Political Science Option (36 units)

1. PSCI 204. International Relations (4)
2. PSCI 314. American Political Thought (4)
3. Four units chosen from:
   - PSCI 300. Western Political Systems (4)
   - PSCI 304. Communist Political Systems (4)
   - PSCI 306. Developing Political Systems (4)
   - PSCI 308. Government and Politics of the Middle East (4)
4. Four 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)
5. Four units chosen from:
   - PSCI 328. Judicial Processes (4)
   - PSCI 410. American Constitutional Law (4)
   - PSCI 411. The Bill of Rights (4)
   - PSCI 412. Civil Rights (4)
6. Four units chosen from:
   - PSCI 325. American Foreign Policy (4)
   - PSCI 400. International Politics (4)
   - PSCI 500. International Law (4)
   - PSCI 510. International Organization (4)
7. Eight units 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)
8. Four units of upper-division Political Science courses.

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)
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. Graded A, B, C/no credit. Prerequisites: satisfaction of the GE written communication (A1) requirement 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. Graded Credit/no credit. Prerequisite: senior standing. (2 units)

515. Model United Nations
An analysis of the role of the United Nations in world politics to prepare students for the national Model United Nations competition. May be repeated for credit. A total of eight units may be applied towards graduation. Formerly PSCI 515. (4 units)

516. Model Arab League
An analysis of the role of the Arab League in world politics to prepare students for the national Model Arab League competition. May be repeated for credit. A total of eight units may be applied towards graduation. (4 units)

590. Seminar in the Social Sciences
An intensive study of various multidisciplinary issues within the social sciences. May be repeated for credit as topics change. A total of eight units may be applied toward graduation. (4 units)
SOCIAL WORK
Accredited by the Council on Social Work Education

School of Social Work
Social and Behavioral Sciences Building, Room 423
(909) 537-5501  socialwork.csus.edu

Bachelor of Arts
Social Work

Master of Social Work
(Degree requirements can be found on Page 544.)

FACULTY: Janet Chang, Thomas Davis, Ray Liles, Carolyn McAllister, Rosemary McCaslin, Teresa Morris, Herb Shon, Laurie Smith (Director), Rachel Strydom, Stanley Taylor

B.A. IN SOCIAL WORK
Requirements (74 units)
Total units required for graduation: 180

The School of Social Work offers courses leading to the Bachelor of Arts in Social Work. This degree prepares baccalaureate students for generallist 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 program is accredited by the Council on Social Work Education, the national accrediting body for social work programs. The program is intensive and exciting and applies to a wide variety of social work client populations.

Students must apply to the School of Social Work for admission into the B.A. in Social Work.

Admission Requirements
1. Completion of application packet including personal statement of commitment to the social work profession, two references, and transcripts; (Contact the School of Social Work for more information.)
2. Completion of all lower division General Education requirements with an overall grade point average of 2.0 ("C") or better;
3. 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 104A. Stretch Composition III
   ENG 104B. Stretch Composition III for Multilingual Students
   ENG 106. Accelerated Stretch Composition II
   ENG 107. Advanced First-Year Composition

Basic Skills in Oral Communication (A2)
1. COMM 120. Oral Communication

Basic Skills in Mathematics (A3)
1. One of the following:
   MATH 110. College Algebra
   MATH 115. The Ideas of Mathematics
   MATH 120. Pre-Calculus Mathematics
   MATH 192. Methods of Calculus
   MATH 211. Basic Concepts of Calculus

Basic Skills in Critical Thinking (A4)
1. One of the following:
   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

Humanities Breadth Area (C3)
1. SPAN 103. College Spanish III

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. in Social Work:
1. SW 200. Introduction to Social Work
2. One of the following:
   ECON 250. Statistics for Economists
   PSYC 210. Psychological Statistics
   SCM 210. Applied Business Statistics
3. CJUS 101. Introduction to the Criminal Justice System

School Regulations
1. Students must attain grades of "C" or better in all courses required for the major from the department in order to progress in the program.

Requirements for the B.A. in Social Work:
Upper-division requirements (66 units)
1. Four units chosen from the following (which also meets the Multicultural/Gender Requirement (G1)
   HUM 340. Perspectives on Gender (4)
   NSCI 325. Perspectives on Society (4)
   SSCI 316. Race and Racism (4)
   SSCI 325. Perspectives on Gender (4)
   SSCI 350. Roots of Modern Racism in America (4)
2. Four units chosen from:
   PSYC 390. Abnormal Psychology (4)
   PSYC 391. Psychopathology of Childhood (4)
3. Four units chosen from:
   PSYC 382. Psychology of Social Behavior (4)
   SOC 339. Socialization (4)
   SOC 360. Social Psychology (4)
4. Four units chosen from:
   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. Four units chosen from:
    SW 320. Child Welfare Services (4)
    SW 325. Social Work Interventions in Substance Abuse (4)
    SW 590. Special Topics (4)
11. SW 400A. Social Work Practice: Individuals (4)
12. SW 400B. Social Work Practice: Groups (4)
13. SW 400C. Social Work Practice: Organizations and Communities (4)
14. SW 401A. Field Work I (4)
15. SW 401B. Field Work II (4)
16. SW 401C. Field Work III (4)

Discipline requirements (8 units)
Courses taken to satisfy upper-division requirements cannot count toward the eight units for the discipline requirement.

1. Eight units in one of the following disciplines
   Criminal Justice
   CJUS 354. Victimization (4)
   CJUS 370. Law and the Courts (4)
   CJUS 460. Alcohol, Drugs and the Criminal Justice System (4)
COURSE OFFERINGS IN
SOCIAL WORK (SW)

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)

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 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: SW 300B and 302B. (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)

320. Child Welfare Services
Public child welfare services and issues from a beginning generalist perspective. Prepares social work students for beginning level evidence-based, culturally competent, family-focused, strength-based, and outcome-oriented child welfare practice. Prerequisite: SW 300B and 302B. (4 units)

325. Social Work Interventions in Substance Abuse
A comprehensive and systems-based examination of substance abuse and dependence. Prepares students with beginning skills for effective substance abuse intervention. Formerly a topic under SW 590. Prerequisites: SW 300B and 302B. (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. Prerequisite: SW 301. (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. Prerequisite: SW 400A. (4 units)

590. Special Topics
Special topics in social work. May be repeated for credit with consent of instructor as topics change. Prerequisite: admission to the B.A. program or consent of instructor. (4 units)

595. Independent Study
Special topics involving library and/or field research. May be repeated for credit. Prerequisites: SW 301 and consent of instructor. (1-4 units)

597. Social Work Honors Project
Original in-depth research in an area of social work practice. Prerequisites: SW 301 and consent of instructor. (4 units)
SOCIOLOGY

Department of Sociology
Social and Behavioral Sciences Building, Room 327
(909) 537-5541 sociology.csusb.edu

Bachelor of Arts
Sociology
Sociology - Social Service

Minor
Sociology

Certificate Programs
Gerontology
Social Services

FACULTY: Zeng-Yin Chen, David Decker (Emeritus), James Fenelon, John Heeren (Emeritus), Patricia Little, Dale Lund (Chair), Marcia Marx, Tom Meisenhelder (Emeritus), Randi Miller (Emeritus), Julian Montoro-Rodriguez, José Muñoz, 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 services 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 (see Addendum for program changes)

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)
7. Thirty-six additional units in sociology, 32 of which must be upper-division. 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 432. Political Sociology (4)
SOC 450. White Collar Crime (4)
SOC 484. Social Casework (4)

Community, Institutions and Social Processes
SOC 330. 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 355. Medical Sociology (4)
SOC 360. Social Psychology (4)
SOC 363. Sociology of Mass Media (4)
SOC 380. Sociology of Religion (4)
SOC 418. Sociology of Social Welfare (4)
SOC 430. Urban Sociology (4)
SOC 432. Political Sociology (4)
SOC 434. Community Organization (4)
SOC 436. Group Dynamics (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.

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)
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)

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:
   SOC 340. Sociology of the Family (4)
   SOC 341. Marriage and Family Among Blacks (4)
   SOC 342. The Chicano Family (4)
3. Four units chosen from:
   SOC 410. Sociology of Race and Ethnicity (4)
   SOC 440. Social Class (4)
   SOC 441. Black Social Stratification (4)
   SOC 442. Chicano Social Stratification (4)
   SOC 444. Sociology of Gender (4)

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)
   SOC 355. Medical Sociology (4)
   SOC 356. Sociology of Mental Illness (4)
   SOC 540. Sociology of Education (4)

   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.

   SOC 590. Seminar in Sociology (4)

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;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior honors project (SOC 597) approved in advance by the department.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Gerontology

Certificate Requirements (28 units)

1. HSCI 423. Health and Wellness of Older Adults (4)
2. PSYC 329. Psychology of Adulthood and Aging (4)
3. SOC 330. Social Gerontology (4)
4. A minimum of sixteen units of upper-division elective courses, chosen from the following courses with the approval of an academic advisor. Internship or practicum experience is highly recommended, though not required; and it may be substituted for an upper-division elective course in the certificate.
   ANTH 331. Anthropology of Human Development (4)
   ANTH 332. Cross-Cultural Perspectives on Aging (4)
   ANTH 466. Anthropology of Health, Illness and Healing (4)
   ANTH 578. Internship in Applied Cultural Anthropology (2-5)
   BIOL 306. Human Heredity and Development (4)
   BIOL 314. Biology of Human Sexuality (4)
   HSCI 310. Health and Human Sexuality (4)
   HSCI 342. Nutrition for Your Health (4)
   HSCI 367. Human Disease Mechanism (4)
   HSCI 399. Community Service Project (1-2)
   HSCI 550. Health Aspects of Death and Dying (4)
   KINE 360. Physical Activity and Aging (2)
   PSYC 540. Work, Retirement and Leisure (4)
   PSYC 575. Internship in Psychology (4)
   SOC 340. Sociology of the Family (4)
   SOC 355. Medical Sociology (4)
   SOC 434. Community Organization (4)
   SOC 575. Internship in Sociology (4)
   SOC 590. Seminar in Sociology: Aging (4)

Certificate in Social Services

Certificate Requirements (32 units)

1. SOC 100. The Study of Society (4)
2. SOC 339. Socialization (4)
3. SOC 418. Sociology of Social Welfare (4)
4. SOC 434. Community Organization (4)
5. SOC 436. Group Dynamics (4)
6. SOC 484. Social Casework (4)
7. SOC 575. Internship in Sociology (4) for a total of (8)

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) (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)*

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

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. Prerequisites: SOC 100 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 or equivalent. *(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. *(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 state 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)*

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)*

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. (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)

432. Political Sociology
Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. (4 units)

434. Community Organization
Programs of action, operative and proposed, for the organization of the community and the solution of its problems. (4 units)

436. Group Dynamics
Dynamics of primary group relationships, including psychotherapy groups. (4 units)

440. Social Class
Study of social class systems with particular reference to race, ethnicity and gender. (4 units)

441. Black Social Stratification
Caste in America, comparison of black and white stratification, black social mobility. (4 units)

442. Chicano Social Stratification
Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities. (4 units)

444. Sociology of Gender
Social inequality, including class and racial/ethnic variations in sex-role organization, in the roles of women and men in contemporary U.S. society. (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)
SPANISH

Department of World Languages and Literatures
University Hall, Room 314
(909) 537-5847 flan.csusb.edu

Bachelor of Arts
Spanish
Business Track
Communication Track
Hispanic Cultural Studies Track
Hispanic Literature, Language, and Civilization Track

Teaching Credential Program
Spanish

Certificate Programs
Bilingual/Cross-Cultural Studies: Spanish/English
Spanish for Public Services

Master of Arts
Spanish
(Degree requirements can be found on Page 548.)

COORDINATOR: Arturo Fernández-Gibert

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 103 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 taking:

SPAN 103. College Spanish III (for those who had two years of high school Spanish)

For those advanced students of Spanish, one of the following courses would be an appropriate course to satisfy the general education requirement:

SPAN 201. Intermediate Spanish I
SPAN 202. Intermediate Spanish II
SPAN 203. Intermediate Spanish III

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 - BUSINESS TRACK

Requirements (74 units)
Total units required for graduation: 180

Requirements for the B.A. in Spanish - Business Track:

Language (24 units)
1. Proficiency in Spanish equal to that of 203. 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 316D. Spanish for the Professions: Business (4)
5. SPAN 402. Advanced Composition (4)
6. Four units chosen from:
   SPAN 321. Spanish in the United States (4)
   SPAN 415. Comparative Linguistics: English/Spanish (4)
   SPAN 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics (4)
7. Four units chosen from:
   SPAN 322. Origin and Contemporary Role of Hispanic Dialects (4)
   SPAN 401. Phonetics (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 Ages to the Seventeenth Century (4)
   SPAN 372. Modern Peninsular Literature (4)
   SPAN 373. Modern Latin American Literature (4)

Civilization (8 units)
1. HUM 335. The Origin and Contemporary Role of Latino Culture (4)
2. Four units chosen from:
   SPAN 410. Spanish Peninsular Civilization (4)
   SPAN 412. Latin American Civilization (4)

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)
Electives (4 units)
1. Four units chosen from any upper-division Spanish courses.

Assessments (2 units)
1. SPAN 295. Intermediate Skills Assessment (1)
2. SPAN 496. Senior Assessment (1)

Business (24 units)
1. ACCT 211. Introductory Accounting I (4)
2. IST 101. Introduction to Information Technology (4)
3. MGMT 302. Management and Organizational Behavior (4)
4. MKTG 305. Marketing Principles (4)
5. Eight upper-division units chosen from a specific area in ACCT, IST, MGMT or MKTG.

B.A. IN SPANISH -
COMMUNICATION STUDIES TRACK

Requirements (74 units)
Total units required for graduation: 180

Requirements for the B.A. in Spanish - Communication Studies Track:

Language (24 units)
1. Proficiency in Spanish equal to that of 201. 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. SC 361A. Spanish for the Professions: Communication (4)
5. SPAN 402. Advanced Composition (4)
6. Four units chosen from:
   - SPAN 321. Spanish in the United States (4)
   - SPAN 415. Comparative Linguistics: English/Spanish (4)
   - SPAN 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics (4)
7. Four units chosen from:
   - SPAN 322. Origin and Contemporary Role of Hispanic Dialects (4)
   - SPAN 401. Phonetics (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 Ages to the Seventeenth Century (4)
   - SPAN 372. Modern Peninsular Literature (4)
   - SPAN 373. Modern Latin American Literature (4)
   - SPAN 435. Chicano Literature in Spanish (4)

Civilization (8 units)
1. HUM 335. The Origin and Contemporary Role of Latino Culture (4)
2. Four units chosen from:
   - SPAN 410. Spanish Peninsular Civilization (4)
   - SPAN 412. Latin American Civilization (4)

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)

Electives (4 units)
1. Four units chosen from any upper-division Spanish courses.

Assessments (2 units)
1. SPAN 295. Intermediate Skills Assessment (1)
2. SPAN 496. Senior Assessment (1)

Communication Studies (24 units)
1. COMM 200. Introduction to Communication Studies (4)
2. COMM 304. Intercultural Communication (4)
3. Electives (16 units)
   - Sixteen units chosen from the following courses:
     - Human Communication
     - COMM 225. Fundamentals of Interpersonal Communication (4)
     - COMM 421. Organizational Communication (4)
     - COMM 422. Communication and Conflict (4)
     - Intercultural Communication
     - COMM 302. Communication, Language and Culture (4)
     - COMM 411. Gender and Communication (4)
     - COMM 580. Culture and Ethnicity in Language (4)
     - Mass Communication
     - COMM 245. Introduction to TV and Video Production (4)
     - COMM 409. Latina/os, Media and Culture (4)
     - COMM 415. Advertising as Social Communication (4)
     - COMM 471. International Communication (4)
     - Public Relations
     - COM 311. Business and Professional Communication (4)
     - COMM 341. Public Relations Theory and Principles (4)
     - Argumentation and Rhetoric
     - COMM 305. Critical Approaches to Communication (4)
     - COMM 312. Persuasion (4)

B.A. IN SPANISH - HISPANIC CULTURAL STUDIES TRACK

Requirements (74 units)
Total units required for graduation: 180

Requirements for the B.A. in Spanish - Cultural Studies Track:

Language (28 units)
1. Proficiency in Spanish equal to that of 203. 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 316A. Spanish for the Professions: Communication (4)
5. SPAN 402. Advanced Conversation (4)
6. Four units chosen from:
   - SPAN 321. Spanish in the United States (4)
   - SPAN 415. Comparative Linguistics: English/Spanish (4)
   - SPAN 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics (4)
7. Four units chosen from:
   - SPAN 322. Origin and Contemporary Role of Hispanic Dialects (4)
   - SPAN 401. Phonetics (4)

Electives (4 units)
1. Four units chosen from any upper-division Spanish courses.

Assessments (2 units)
1. SPAN 295. Intermediate Skills Assessment (1)
2. SPAN 496. Senior Assessment (1)

Communication Studies (24 units)
1. COMM 200. Introduction to Communication Studies (4)
2. COMM 304. Intercultural Communication (4)
3. Electives (16 units)
   - Sixteen units chosen from the following courses:
     - Human Communication
     - COMM 225. Fundamentals of Interpersonal Communication (4)
     - COMM 421. Organizational Communication (4)
     - COMM 422. Communication and Conflict (4)
     - Intercultural Communication
     - COMM 302. Communication, Language and Culture (4)
     - COMM 411. Gender and Communication (4)
     - COMM 580. Culture and Ethnicity in Language (4)
     - Mass Communication
     - COMM 245. Introduction to TV and Video Production (4)
     - COMM 409. Latina/os, Media and Culture (4)
     - COMM 415. Advertising as Social Communication (4)
     - COMM 471. International Communication (4)
     - Public Relations
     - COM 311. Business and Professional Communication (4)
     - COMM 341. Public Relations Theory and Principles (4)
     - Argumentation and Rhetoric
     - COMM 305. Critical Approaches to Communication (4)
     - COMM 312. Persuasion (4)
8. Four units chosen from:
   SPAN 322. Origin and Contemporary Role of Hispanic Dialects (4)
   SPAN 401. Phonetics (4)

Literature (24 units)
1. SPAN 318. Techniques of Literary Study and Analysis (4)
2. Twelve units 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)
   SPAN 435. Chicano Literature in Spanish (4)
3. Eight 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)
   SPAN 517. Seminar in Hispanic Linguistics (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)
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)

Electives (4 units)
1. Four units chosen from any upper-division Spanish courses.

Assessments (2 units)
1. SPAN 295. Intermediate Skills Assessment (1)
2. SPAN 496. Senior Assessment (1)

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 (32 units)
1. Proficiency in Spanish equal to that of 203. 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. FLAN 350. Language Acquisition and Early Field Experience for Future Teachers (4)
3. SPAN 302. Theory and Practice in Composition (4)
4. SPAN 314. Advanced Conversation (4)
5. SPAN 401. Phonetics (4)
6. SPAN 402. Advanced Composition (4)
7. SPAN 415. Comparative Linguistics: Spanish/English (4)
8. SPAN 416. Advanced Study of Semantics, Pragmatics, and Sociolinguistics (4)

9. 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 (28 units)
1. SPAN 318. Techniques of Literary Study and Analysis (4)
2. Twelve units 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)
   SPAN 435. Chicano Literature in Spanish (4)
   SPAN 515. Seminar in Spanish Peninsular Literature, Culture, or Film (4)
   SPAN 516. Seminar in Spanish American Literature, Culture, or Film (4)
   SPAN 517. Seminar in Hispanic Linguistics: Grammar (4)
   SPAN 517B. Seminar in Hispanic Linguistics: Dialectology (4)
   SPAN 517C. Seminar in Hispanic Linguistics: Language in Society (4)
   SPAN 517D. Seminar in Hispanic Linguistics: Teaching Methodology (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)
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)

Electives (4 units)
1. Four units chosen from any upper-division Spanish courses.

Assessments (2 units)
1. SPAN 295. Intermediate Skills Assessment (1)
2. SPAN 496. Senior Assessment (1)
ANTH 356. Cultures of South America (4)

ANTH 354. Cultures of Mexico and Central America (4)

4. Twelve units chosen from:
   - SPAN 415. Comparative Linguistics: Spanish/English (4)
   - ART 329. Chicano Art (4)
   - ART 328. Mexican Art (4)
   - SPAN 449. Literature of the Indigenous Peoples of Spanish America (4)
   - HUM 450. Aspects of Chicana/o Culture (4)

3. Eight units chosen from:
   - SPAN 318. Techniques of Literary Study and Analysis (4)
   - SPAN 203. Intermediate Spanish III (4)
   - SPAN 316A. Spanish for the Professions: Medicine (4)
   - SPAN 316B. Spanish for the Professions: Law Enforcement (4)

Lower-division requirements (4 units)

Certificate Requirements (2 units)

- SPAN 496. Advanced Spanish (4)
- SPAN 497. Advanced Spanish Literature (4)
- SPAN 498. Advanced Spanish Language and Literature (4)
- SPAN 499. Independent Study (1-4 units)

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. Five units chosen 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)

6. SPAN 415. Comparative Linguistics: Spanish/English (4)

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.
   Qualifying 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Bilingual/Cross-Cultural Studies: Spanish/English

Certificate Requirements (32 units)

Lower-division requirements (4 units)
   - SPAN 203. Intermediate Spanish III (4)

Upper-division requirements (28 units)
   - COMM 304. Intercultural Communication (4)
   - 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)

COURSE OFFERINGS IN SPANISH (SPAN)

Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate (see Page 51 for definition of this grade.) Effective times and places of examinations are announced by the departments concerned, students should make arrangements with the department office or coordinator well in advance.

LOWER DIVISION

Courses at the 101, 102 and 103 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. (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. (4 units)

103. College Spanish III
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. Formerly SPAN 150. (GE=C3) (4 units)

201. Intermediate Spanish I
First course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures. (GE=C3) Prerequisite: SPAN 103 or equivalent. (4 units)

202. Intermediate Spanish II
Second course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures. (GE=C3) Prerequisite: SPAN 201 or equivalent. (4 units)

203. Intermediate Spanish III
Third course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures. (GE=C3) Prerequisite: SPAN 202 or equivalent. (4 units)

214. Conversation
Practice of oral Spanish stressing the discussion of current topics, panel discussions, debates, and oral presentations for students who have formally learned the language in a classroom setting and not in a Spanish-speaking environment (outside the classroom). (GE=C3) Prerequisite: SPAN 201 or equivalent. (4 units)

290. Spanish and Latin American Literature in English
Introduction to Hispanic literature read in English translation. (GE=C3) (4 units)

295. Intermediate Skills 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 upper-division courses in Spanish (excluding SPAN 435). A student who fails SPAN 295 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. Formerly SPAN 395. Graded credit/no credit. (1 unit)

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. Graded A, B, C/no credit. Prerequisites: SPAN 203 and 295 or equivalent. (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 295 and 302.
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 295 and 302. (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 295 and 302.
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 295 and 302. (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 295 and 302. (4 units)

321. Spanish in the United States
Intensive study of contemporary spoken and written Spanish in the United States, including analysis of forms and functions within selected social, political and educational contexts. Prerequisites: SPAN 295 and 302. (4 units)

322. Origin and Contemporary Role of Hispanic Dialects
History and description of existing Spanish dialects in Spain, North America, the Caribbean, Central and South America. Emphasis on forms, sound systems and functional meanings in various social contexts. Prerequisites: SPAN 295 and 302. (4 units)

370. Literature of the Conquest
Readings from Latin American literature from the fifteenth through the seventeenth centuries. Prerequisites: SPAN 295, 302, and 318. (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 295, 302, and 318. (4 units)

372. Modern Peninsular Literature
Readings in Spanish peninsular literature from the eighteenth century to the present. Prerequisites: SPAN 295, 302, and 318. (4 units)

373. Modern Latin American Literature
Readings in Latin American literature from the eighteenth century to the present. Prerequisites: SPAN 295, 302, and 318. (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 295 and 302.
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)

398. Survey of Classical and Contemporary Hispanic Films
Analysis of selected classical and contemporary Hispanic films from production of major studios to avant-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. Three hours lecture and two hours activity. Prerequisites: SPAN 295 and 302, or consent of instructor.
A. Films from Spain. Class conducted in Spanish and films in Spanish. (4 units)
B. Films from Latin America. Class conducted in Spanish and films in Spanish. (4 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. (4 units)
D. Films from Spain and Latin America. Class conducted in Spanish with films screened from Spain and Latin America. (4 units)
E. Significant Director or Theme of Hispanic Film. Class conducted in Spanish with films from Spain, Latin America and United States. (4 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 295 and 302 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 295 and 302. (4 units)

402. Advanced Composition
Advanced expository writing in Spanish, including documented research reports and analytical papers. Revision and rewriting will be required. May be repeated for credit. Prerequisites: SPAN 295 and 302 with a grade of "C" or better. (4 units)

403. 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 295 and 302. (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 295, 302, 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 295, 302, and 402. (4 units)

435. Chicoano Literature in Spanish
Literary analysis of selected works by Chicoano writers with a special emphasis on historical and contemporary issues. Prerequisite: ability to read and write at the SPAN 103 or 115 level. (4 units)

440. Mexican Literature
Survey of the development of Mexican literature from 1520 to the present. Prerequisites: SPAN 295, 302, 318, 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 295, 302, 318 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 295, 302, 318 and one class from the 370 series. (4 units)

445. The Narrative of Spanish America
Survey of the narrative of Spanish America from the sixteenth century to the present. Prerequisites: SPAN 295, 302, 318, 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 295, 302, 318, 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 295, 302, 318, 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 295, 302, 318, 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 295, 302, 318 and one class from the SPAN 370 series. (4 units)

465. 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. Prerequisites: SPAN 295 and senior standing. (1 unit)
350 / Spanish

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 295, 302, 318; and 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 295, 302, 318; 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)

517. Seminar in Hispanic Linguistics
Advanced study of Spanish language and linguistics. May be repeated as topics change. Prerequisites: SPAN 295, 302, 415, and 416.
A. Grammar (4 units)
B. Dialectology (4 units)
C. Language in Society (4 units)
D. Teaching Methodology (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 295 and 302. (1-8 units)
SPECIAL MAJOR

Office of the Associate Vice President of Undergraduate Studies

University Hall, Room 368
(909) 537-5032 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-designed 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 Associate Vice President 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 Associate Vice President 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 Associate Vice President 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.
2. The minimum requirements for a Special Major will be 40 units of carefully structured upper-division work in two or more fields. Additional units beyond the minimum may be required by the faculty 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.
6. A culminating experience (project, research paper, or other written documentation) and verification of accomplishment of project is required. Up to four units of credit for this may be built into the requirements of the major.

Application Process:

1. Determine the feasibility of pursuing a Special Major by reviewing the requirements and examining available programs and majors to see if the proposed major could be met though any of these. Explore the resources of the campus needed for a Special Major in terms of course offerings, library resources, facilities, and faculty expertise.
2. Develop a statement of goals and objectives and the interdisciplinary program proposal which specifically addresses the following: What is the purpose or focus of this specially designed major? What skills does the student already have? What additional knowledge is needed? What is the best way to reach the goal? What is the student's career objective? Are there plans for advanced training and study?
3. Consult with the Associate Vice President 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 Associate Vice President 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 Associate Vice President 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.
7. 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 Associate Vice President 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. Hasty done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal.)

10. In some cases, the University Curriculum Committee may invite students and/or their faculty advisor to discuss the proposal with the committee, especially where clarification or changes are requested.

11. The Associate Vice President 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 Associate Vice President of Undergraduate Studies.

13. Upon approval of the Special Major proposal, the student may formally declare a Special Major. At graduation, the diploma will show only a B.A. with Special Major, but the transcript will reflect the nature or title of the special interdisciplinary study in this fashion: B.A. with Special Major in (subject area).

**B.A. IN SPECIAL MAJOR:**

**ADVERTISING MANAGEMENT**

**Requirements (84 units)**

**Total units required for graduation: 180**

**Requirements for the B.A. in Special Major - Advertising Management:**

**Lower-division requirements (24 units)**

1. ACCT 211. Introductory Accounting I (4)
2. ART 120. Introduction to Two Dimensional Design (4)
3. ART 223. Art History: Renaissance to the Present (4)
4. ART 232. Principles of Design Management (4)
5. ART 238. Production of Visual Information Design (4)
6. Four units chosen from:
   - ECON 200. Principles of Microeconomics (4)
   - ECON 202. Principles of Macroeconomics (4)
   - MGMT 100. Introduction to Business and Public Administration (4)

**Upper-division requirements (54 units)**

1. ART 333. History of Graphic Design (4)
2. ART 342. Graphic Design I (5)
3. ART 343. Graphic Design II (5)
4. MGMT 302. Management and Organizational Behavior (4)
5. MKTG 305. Marketing Principles (4)
SUPPLY CHAIN MANAGEMENT

Department of Information and Decision Sciences
Jack Brown Hall, Room 460
(909) 537-5723 / ids.csusb.edu

FACULTY: Anand Bhatia (Emeritus), Harold Dyck, Kamvar Farahbod, Barbara Sirotnik, Walt Stewart, Jay Varzandeh, Jake Zhu (Chair)

The university offers a concentration in supply chain and transportation 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 74 and the Master of Business Administration on Page 387. 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

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 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)

305. Enterprise Resource Planning
Foundation for enterprise resource planning and implementation, including supply chain and transportation management modeling and operations planning. Configuration and application of an enterprise system. Formerly SCM 205. (Also offered as IST 305. Students may not receive credit for both.) Prerequisite: SCM 304 or consent of instructor. (4 units)

350. Decision Making in Supply Chain and Transportation Management
Decision making process used by supply chain and transportation managers. Different perspectives of individual and organizational decision making, and analysis and interpretation of data to make effective decisions. 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. (Also offered as IST 405. Students may not receive credit for both.) Prerequisites: SCM 304 and 305. (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)

445. International Logistics
Logistics management involving goods and services in different countries. International business environment, international transportation, intermediaries, import/export regulations, payment and risks, and cultural differences of the global supply chain. 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 in supply chain and transportation management from a total quality management perspective. Topics include quality planning, statistical quality control, quality design and measurement, and management of six sigma quality and inspection. Formerly OM 480. Prerequisite: SCM 304. (4 units)

490. Strategic Management in Supply Chain and Transportation
Development, implementation and integration of strategies in supply chain and transportation management. Capstone course for the fields of supply chain and transportation management. Includes case studies and use of current technology. Prerequisites: the upper-division writing requirement and completion of all other courses in concentration program or consent of instructor. (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. Prerequisite: the upper-division writing requirement. (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, the upper-division writing requirement, 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 theatre.csusb.edu

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
Film Studies (See Page 137.)
Script Writing
Theatre Arts

Certificate Program
Puppetry
Theatre for Youth

Master of Arts
Theatre Arts
(Degree requirements can be found on Page 551.)

FACULTY: Carol Damgen, Michelle Ebert, Kathryn Ervin, Andre Harrington, Lee Lyons (Emeritus), Margaret Perry (Chair), William Peterson, Thomas Provenzano, Johanna Smith, Terry 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.

The Theatre Arts Department produces five major plays during the academic year. The department also presents several student directed/design 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 five 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 357.

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 (24 units)
1. TA 235. Fundamentals of Stage Design (4)
2. Two units chosen from:
   DAN 200. Studies in Dance (2)
   TA 245. Beginning Theatre Movement (2)
   TA 253. Voice for the Stage (2)
3. TA 240. Improvisation (3)
4. TA 251. Acting I: Games and Exercises (3)
5. TA 252. Acting II: Creating a Role (3)
6. 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 (40 units)
1. TA 302A. Analysis of Drama (4)
2. TA 331. Theatre Management (4)
3. TA 346. Directing I (3)
4. TA 361. Theatre History I: Origins Through Medieval (4)
5. TA 362. Theatre History II: Renaissance Through Eighteenth Century (4)
6. TA 363. Theatre History III: Nineteenth Century to the Present (4)
7. 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)
   TA 320G. Performance Practicum: Puppetry (2)
8. Eight units chosen from:
   TA 321A. Technical Practicum (1)
   TA 321B. Technical Practicum (2)

9. Eight units chosen from:
   TA 401. History of Musical Theatre (4)
   TA 423. Studies in Dramatic Literature (2)
   TA 450. Classical Drama (4)
   TA 451. Mystery to Melodrama (4)
   TA 455. Modern Drama I (4)
   TA 456. Modern Drama II (4)
   TA 457. Theatre of the Avant-Garde (4)
   TA 458. Theatre for Youth: History and Literature (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 U.S. Latina/o Theatre (4)
   TA 475. Shakespeare I (4)
   TA 476. Shakespeare II (4)
   TA 505. Criticism of Theatre in Performance (4)
10. TA 585. Senior Assessment (1)

Emphases (19 units)

Eighteen units chosen from the following emphases which were not chosen as part of the core:
Theatre Arts / 355

Acting Emphasis

1. Twelve units chosen from the following courses, which were not chosen as part of the lower-division core:
   - DAN 200. Studies in Dance (2)
   - TA 245. Beginning Theatre Movement (2)
   - TA 253. Voice for the Stage (2)
   - TA 345. Advanced Voice and Movement (2)
2. Twelve units chosen from:
   - 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 357. Acting for the Camera (3)
   - 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)
   - 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: North American (2)
   - DAN 310C. World Dance Traditions: South and Central American (2)
   - DAN 310D. World Dance Traditions: Asian (2)
   - DAN 310E. World Dance Traditions: Mediterranean (2)
2. Seven units chosen from:
   - DAN 355. Dance Notation (3)
   - DAN 360. Dance History (4)
   - DAN 450. Choreography (3)
   - DAN 481. Creative Dance in the Classroom (4)
   - TA 355. Acting VII: Acting Musicals (3)
   - TA 401. History of Musical Theatre (4)
   - TA 483. Asian Theatre (4)

Design/Technical Emphasis

1. TA 130. Computer Applications for Technical Theatre (1) for a total of (2)
2. TA 334. Theatrecrafts (3) for a total of (6)
3. 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 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)
   - TA 338. Design: Scene Design (3)
5. Two units chosen from:
   - TA 321A. Technical Practicum (1)
   - TA 321B. Technical Practicum (2)
   - TA 535. Independent Project (1-4)

Drama Education Emphasis

1. DAN 481. Creative Dance in the Classroom (4)
2. TA 481. Creative Drama in the Classroom (3)

3. Twelve units chosen from:
   - DAN 580. Advanced Creative Dance Methods (4)
   - TA 320B. Performance Practicum: Imagination Players (2)
   - TA 320C. Performance Practicum: Touring Theatre (2)
   - TA 347. Playwriting (4)
   - TA 446. Directing II (3)
   - TA 483. Children's Theatre (4)
   - TA 484. Readers Theatre in the Classroom (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)

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).
1. DAN 300E. Dance Techniques: Musical Theatre (2)
2. Six units chosen from:
   - MUS 206. Class Voice (1)
   - MUS 240. Lower-Division Voice II (1)
   - MUS 302. Music Theatre Production (2)
   - MUS 385. Concert Choir (1)
   - MUS 386. Chamber Singers (1)
   - MUS 387. Opera Theatre I (1)
   - MUS 392. Vocal Jazz (1)
   - MUS 395. Symphonic Choir (1)
   - MUS 396. Reversion Singers (1)
3. TA 355. Acting VII: Acting Musicals (3)
4. TA 401. History of Musical Theatre (4) (cannot be taken as part of upper-division core)
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)
   - DAN 300E. Dance Techniques: Musical Theatre (2)
   - DAN 310A. World Dance Traditions: African (2)
   - DAN 310B. World Dance Traditions: North American (2)
   - DAN 310C. World Dance Traditions: South and Central American (2)
   - DAN 310D. World Dance Traditions: Asian (2)
   - DAN 310E. World Dance Traditions: Mediterranean (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 182), as well as the following:
1. Four units chosen from:
   - COMM 245. Introduction to TV and Video Production (4)
   - CSE 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)
3. Four units chosen from:
   - ENG 306. Expository Writing (4)
   - HUM 306. Expository Writing for the Humanities (4)
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 320G. Performance Practicum: Puppets (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 231. Sound for Stage and Screen (3)
   - TA 232. Lighting for Stage and Screen (3)
   - TA 233. Costume Construction (3)
   - TA 239. Stagecraft (3)
   - TA 346. Directing I (3)

Dance Emphasis
1. Ten units chosen from:
   - DAN 200A. Studies in Dance: Jazz (2)
   - DAN 200B. Studies in Dance: Modern (2)
   - DAN 200C. Studies in Dance: Tap (2)
   - DAN 200D. Studies in Dance: Ballet (2)
   - DAN 300A. Dance Techniques: Jazz (2)
   - DAN 300B. Dance Techniques: Modern (2)
   - DAN 300C. Dance Techniques: Tap (2)
   - DAN 300D. Dance Techniques: Ballet (2)
   - DAN 300E. Dance Techniques: Musical Theatre (2)
   - 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 chosen 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)
1. TA 235. Fundamentals of Stage Design (4)
2. Six units chosen from:
   - 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)
3. Eight units chosen from:
   - 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 333. Theatrecrafts (3)
   - TA 337. Design: Costume Design (3)
   - TA 338. Design: Scene Design (3)
   - TA 535. Independent Project (1-4)

Drama Education Emphasis
1. DAN 481. Creative Dance in the Classroom (4)
2. TA 481. Creative Drama in the Classroom (3)
3. Eleven units chosen from:
   - 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: Main Stage (2)
   - TA 320C. Performance Practicum: Touring Theatre (2)
   - TA 321A. Technical Practicum (1)
   - TA 321B. Technical Practicum (2)
   - TA 385. Acting for Non-Majors (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)

Dramatic Literature Emphasis
1. Eight units chosen from:
   - TA 302B. Analysis and Writing of Drama (4)
   - TA 347. Playwriting (4)
   - TA 505. Criticism of Theatre in Performance (4)
2. Eight units chosen from:
   - TA 423. Studies in Dramatic Literature (2)
   - TA 450. Classical Drama (4)
   - TA 451. Mystery to Melodrama (4)
   - TA 463. Asian Theatre (4)
   - TA 475. Shakespeare I (4)
   - TA 476. Shakespeare II (4)
3. A minimum of two units chosen from:
   - TA 423. Studies in Dramatic Literature (2)
   - TA 401. Musical Theatre (4)
   - TA 455. Modern Drama I (4)
   - TA 456. Modern Drama II (4)
   - TA 457. Theatre and the Avant-Garde (4)
   - TA 461. American Drama (4)
   - TA 462. African American Theatre and Drama (4)
   - TA 464. Theatre of the Post-Colonial World (4)
   - TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)

Puppetry Emphasis
1. TA 334. Theatrecrafts (3) when the topic is puppetry
2. TA 356. Puppetry (3)
3. TA 358. Puppetry for the Camera (3)
4. TA 526. Puppetry Workshop (3)
5. Six units chosen from:
   - TA 233. Costume Construction (3)
   - TA 235. Fundamentals of Stage Design (4)
   - TA 240. Improvisation (3)
   - TA 253. Voice for the Stage (2)
   - TA 346. Directing I (3)
   - TA 351. Acting Ill: Scene Study (3)
   - TA 458. Theatre for Youth: History and Literature (4)
   - TA 486. Puppetry in the Classroom (4)

Certificate Programs
Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Puppetry
Certificate Requirements (32 units)
1. TA 334. Theatrecrafts (3) when the topic is puppetry
2. TA 356. Puppetry (3)
3. TA 358. Puppetry for the Camera (3)
4. TA 458. Theatre for Youth: History and Literature (4)
5. TA 526. Puppetry Workshop (3)
6. Four units chosen from:
   - TA 233. Costume Construction (3)
   - TA 235. Fundamentals of Stage Design (4)
   - TA 321A. Technical Practicum (1)
   - TA 321B. Technical Practicum (2)
   - TA 385. Acting for Non-Majors (4)
   - TA 483. Children's Theatre (4)
   - TA 484. Readers Theatre in the Classroom (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)
7. Twelve units chosen from:
   - TA 240. Improvisation (3)
   - TA 253. Voice for the Stage (2)
   - TA 351. Acting Ill: Scene Study (3)
   - TA 346. Directing I (3)
   - TA 484. Readers Theatre in the Classroom (3)
   - TA 486. Puppetry in the Classroom (4)

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 483. 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)
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)

131. Makeup for Stage and Screen
Theory and application of makeup for theatre, television and film. (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: satisfaction of the GE written communication (A1) requirement 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)

223. Audition/Interview Preparation
Students select and prepare material for acting auditions and technical interviews, both for inter-college competition and professional theatre/film work. Two hours activity. (1 unit)

225. Festival Production
Remounting and reconfiguring University production for touring to national and international festivals and venues. Two hours activity. (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. (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. (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. (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. (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. (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. (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 theatre making. Students will authentically experience this process as production crew or audience members. (GE=C1) (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: satisfaction of the GE written communication (A1) requirement. (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. Puppetry students gain touring experience in the performance of puppetry. 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)
D. Special Projects (admission by audition only) (2 units)
E. Dance Performance (admission by audition only) (2 units)
F. Puppetry 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 minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. May be repeated for credit.
A. (1 unit)
B. (2 units)

331. Theatre Management
Survey of fine arts management principles as they apply to theatre. Prerequisite: junior standing or consent of instructor. (4 units)

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. Prerequisites: TA 231 and 235 or consent of instructor. (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. Prerequisite: TA 235 or consent of instructor. (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. Prerequisites: TA 233 and 235 or consent of instructor. (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. Prerequisites: TA 235 and 239 or consent of instructor. (3 units)

345. Advanced Voice and Movement
Advanced theory and practice of voice and movement techniques for the actor. Prerequisites: TA 245 and 253 or consent of instructor. (2 units)

346. Directing I
Fundamentals of play directing through theory and practice. Prerequisites: TA 235 and 252 or consent of instructor. (3 units)

347. Playwriting
Fundamentals of play development, including plot, character, structure, and theme. Classroom exercises will culminate in students creating their own dramatic scenes and short plays. (Also offered as ENG 347.) 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. At the close of this course students will be placed in advanced acting courses by departmental examination. 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. Prerequisite: 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)

356. Puppetry
Survey of the field of puppetry, including an overview of puppet forms and practitioners from an international perspective. Includes an introduction to puppet design, construction, and manipulation. Six hours activity. (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)

358. Puppetry for the Camera
Study and application of puppeteering techniques unique to film and video. Six hours activity. Prerequisite: TA 356 or 486. (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. Prerequisite: junior standing or consent of instructor. (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. Prerequisite: junior standing or consent of instructor. (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. Prerequisite: junior standing or consent of instructor. (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)

423. Studies in Dramatic Literature
Intensive study of a selected topic in dramatic literature within historical and/or cultural contexts. May be repeated as topics change. (2 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. (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. (4 units)

456. Modern Drama II
European, British and American anti-realism. (4 units)

457. Theatre of the Avant-Garde
Exploration and analysis of performance traditions from Dada to performance art. (4 units)

458. Theatre for Youth: History and Literature
Exploration and analysis of the history and literature of performance for young audiences, from its origins to current trends. (4 units)

461. American Drama
Survey of the American theatre and its drama (Dunlap to O'edets) as they reflect the changing patterns of American society. (4 units)

462. African-American Theatre and Drama
A survey of the African-American theatre from its African origins in the oral tradition through contemporary trends, including issues of politics, race and gender in terms of the American theatre in general. Emphasis on African-American playwrights, companies and performers within their social and historical contexts. (GE=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
Overview of the uses of puppets as interdisciplinary teaching tools in the elementary classroom. Emphasis on lesson planning and performance techniques for teachers. 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)

526. Puppetry Workshop
Advanced study of a selected puppetry topic, including but not limited to: puppet design, puppet construction, puppetry performance, directing puppetry, and international puppet traditions. May be repeated for credit. Six hours activity. Prerequisite: TA 356 or 486. (3 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. (1-4 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. (1-6 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. Prerequisite: consent of internship coordinator. (1-6 units)

579. Theatre in the Elementary Classroom
Integrating aesthetic perception with creative expression in the elementary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within an elementary school classroom under the supervision of course instructor and classroom teacher. Prerequisite: TA 481 or 484 or consent of instructor. (4 units)

580. Advanced Creative Drama in the Classroom
Advanced methods of teaching across the curriculum using process-oriented creative drama techniques. Course concentrates on fostering imagination and self-expression through pantomime, improvisation and play making. Course includes developing creative drama/educational units and lesson plans as well as practical experience in an educational setting. Requires a six hour field component including observation and participation in teaching at an approved setting. Prerequisite: TA 481. (4 units)

581. Theatre in the Secondary Classroom
Integrating aesthetic perception with creative expression in the secondary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within a secondary school classroom under the supervision of course instructor and classroom teacher. Prerequisites: TA 302 or ENG 302, and TA 481 or 484. (4 units)

585. Senior Assessment
Student preparation of portfolio and self-critiques of artistic/research projects which document academic progress. Formal presentation of this collected material to be evaluated by peers and faculty. Two hours activity. Graded credit/no credit. Prerequisite: senior status; must be taken in winter quarter immediately prior to graduation. (1 unit)

COURSE OFFERINGS IN DANCE (DAN)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DAN 200</td>
<td>Studies in Dance</td>
<td>2</td>
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<tr>
<td>DAN 300</td>
<td>Dance Techniques</td>
<td>2</td>
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<td>DAN 310</td>
<td>World Dance Traditions</td>
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<td>DAN 355</td>
<td>Dance Notation</td>
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<td>DAN 360</td>
<td>Dance History</td>
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<td>DAN 450</td>
<td>Choreography</td>
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<td>DAN 481</td>
<td>Creative Dance in the Classroom</td>
<td>4</td>
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<tr>
<td>DAN 580</td>
<td>Advanced Creative Dance Methods</td>
<td>4</td>
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</tbody>
</table>

See Page 158 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 expository writing, oral communication, critical thinking, and philosophy;
• 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 104A. Language and Meaning: Critical Thinking (4)
2. HON 104B. Language and Meaning: Introduction to Philosophy (4)
3. HON 104C. Language and Meaning: Oral Communication (4)
4. HON 105A. Honors Colloquium (1)
5. HON 105B. Honors Colloquium (1)
6. HON 105C. Honors Colloquium (1)
7. HON 205A. Honors Seminar (1)
8. HON 205B. Honors Seminar (1)
9. HON 205C. Honors Seminar (1)
10. A senior project in a department (4)
11. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as sophomores (23 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as juniors (15 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Eight additional upper-division units chosen from honors-designated courses.

COURSE OFFERINGS IN UNIVERSITY HONORS (HON)

Lower Division

104. Language and Meaning
An integrated course in the Honors Program meeting General Education requirements for basic skills in critical thinking, philosophy and oral communication. Emphasizes using the various basic skills in the process of exploring specific current issues. Prerequisite: acceptance into the Honors Program.
A. Critical Thinking (GE=C4) (4 units)
B. Introduction to Philosophy (GE=A4) (4 units)
C. Oral Communication (GE=A2) (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. Graded A, B, C/no credit. Prerequisites: acceptance into the Honors Program, satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit. (GE=F1) 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 Associate Vice President of Undergraduate Studies
University Hall, Room 368
(909) 537-5032  www.ugs.csusb.edu

The Office of the Associate Vice President 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 104 (2 units)
B. English 106 (2 units)
C. English 107 (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. (1-2 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)

200. Sophomore Year Success Seminar
Learn to maximize use of university resources, prepare for postbaccalaureate work and facilitate graduation. Explores the subject matter of university success and overcoming the challenges of career and life decision adjustments. Graded A, B, C/no credit. (2 units)
GRADUATE DEGREE PROGRAMS

Office of Graduate Studies
Chaparral Hall, Room 123
(909) 537-5058 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, a doctorate, 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 66) 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:

- Accountancy, M.S.
- Art, M.A.
- Biology, M.S.
- Business Administration, M.B.A.
- Child Development, M.A.
- Communication Studies, M.A.
- Computer Science, M.S.
- Counseling and Guidance, M.S.
- Criminal Justice, M.A.
- Earth and Environmental Sciences, M.S.
- Education, M.A.
- Educational Administration, M.A.
- English Composition, M.A.
- General Experimental Psychology, 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.S.
- Public Administration, M.P.A.
- Public Health, M.P.H.
- Rehabilitation Counseling, M.A.
- Science, Technology, Engineering and Mathematics Education, M.S.
- Social Sciences, M.A.
- Social Work, M.S.W.
- Spanish, M.A.
- Theatre Arts, M.A.

The university offers the following graduate programs culminating in a fine arts degree:

- Creative Writing, M.F.A.

The university offers the following graduate programs culminating in a doctorate degree:

- Educational Leadership, Ed.D.

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 Master of Science in Accountancy prepares students for a wide range of employment opportunities in public accounting, industry and finance, government and nonprofit organizations. The program is designed to produce individuals who are qualified with knowledge and skills in Professional Accounting and Accounting Information Systems.

The M.A. in Art provides for further study in one or more of ten studio areas and investigates issues in contemporary art. The M.F.A. in Studio Art and Design provides advanced study and practice in preparation for professional careers in studio art and design or teaching in higher education. The M.F.A. in Studio Art and Design The Master of Fine Arts in Studio Art and Design provides rigorous study for students with a strong direction and focus in art and/or design and a high level of technical proficiency. The programs are offered in the Visual Arts Center, which includes the Robert and Francis Fullerton Museum of Art.

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 Collegiate 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 Child Development provides students with a program of study in a variety of areas in human development and psychology that pertain to the study and research on children. Utilizing an interdisciplinary and applied focus, students will take courses in infant, child and adolescent development; families and parenting; cognitive and language development; applications of developmental theory; and research methods.

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.
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Graduate Programs
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 Master of Science in Earth and 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.A. in Education offers options in bilingual/crosscultural education; career and technical education; correctional and alternative education; curriculum and instruction; environmental education; holistic and integrative education; instructional technology; kinesiology; reading/language arts; science education, special education; and teaching English to speakers of other languages. The College of Education also offers credential programs designed to prepare students to teach in a variety of settings. In addition to the multiple, single and designated subjects credentials, specialist and services credential programs also are available.

The Educational Administration M.A. program prepares individuals to assume leadership roles in school administration, school business management, curriculum development, and supervision of personnel and instruction.

The English Department offers an M.A. in English Composition. There are three concentrations available. The English Composition Program is designed for individuals interested in pursuing studies in the teaching of composition and will also benefit those who need expertise as writers of grants, interpreters of public policy, editors and others interested especially in nonfiction prose. The option in English Literature allows students an option to focus on advanced studies in literature as well as composition. The option in Applied Linguistics and Teaching English as a Second Language prepares students for teaching in high school and college ESL programs. The Master of Fine Arts (M.F.A.) in Creative Writing is a two-year program with concentrations in the genres of poetry and fiction writing. The primary objective of the program is to offer students advanced studies in the writing of poetry and fiction that includes instruction in the history and methodologies associated with the student's discipline, training in literature and language, and extensive practice in a workshop atmosphere that closely examines student work by peers and faculty.

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 General Experimental Psychology.

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 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 M.S. in Science, Technology, Engineering, and Mathematics Education (STEM) includes major foundations for our nation and global economy. It is recognized at the international, national and state level that Science, Technology, Engineering, and Mathematics (STEM) Education is a synergistic approach for preparing learners in 21st century environments.

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.

The Doctor of Education (Ed.D.) in Educational Leadership is a rigorous doctoral program directed specifically towards current and emerging leaders in PreK – 12 and community college to provide expertise in these specific areas and emphasize the need for theory and practice, ethical leadership, personal balance, the utilization of technology and mentoring components. Its mission is to add the expert leadership base in the public schools and community colleges by preparing reflective practitioners through rigorous study and application.

Detailed requirements of each program are listed by department and or degree 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 to postbaccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.

Specifically, a student shall 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 shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) 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. In unusual circumstances, a campus may make exceptions to these criteria.

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 coordinator of the appropriate master's program or if there is no specific graduate degree in mind, to the Dean of Graduate Studies. Applicants who do not possess the requisite grade point average for admission to a master's degree program may submit test scores for the GRE, GMAT or MAT.

Categories of Admission

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:

Students who meet the minimum requirements for postbaccalaureate studies may be considered for admission in one of the four following categories:

- **Postbaccalaureate Unclassified.** To enroll in undergraduate courses as preparation for advanced degree programs to enroll in graduate courses for professional or personal growth, applicants must be admitted as postbaccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as postbaccalaureate unclassified students. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program; or

- **Postbaccalaureate Classified.** e.g. admission to an education credential program. Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

- **Graduate Conditionally Classified.** Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or

- **Graduate Classified.** To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

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 ex-

amination is completed. See Culminating Experience: Exam, Thesis or Project, Page 370 for further explanation.

These and other CSU admissions requirements are subject to change as policies are revised and laws and amended. The CSU website www.calstate.edu and the CSU admissions portal www.csumentor.edu are good sources of the most up-to-date information.

Admission of Graduates with Three-Year Baccalaureate Degrees from Foreign Universities

An applicant who has earned a three-year bachelor's degree from an institution outside of the USA is eligible to apply for admission. The institution must be licensed and/or accredited in its home nation to award diplomas or degrees. Admission is subject to departmental review.

Graduate and Postbaccalaureate English Language 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 higher scores. Several CSU campuses may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS), and the International Test of English Proficiency (ITEP).

Admissions Procedures

1. All graduate and postbaccalaureate applicants (e.g., joint Ph.D. and Ed.D. applicants, master's degree applicants, those seeking educational credentials or certificates, and where permitted, holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and postbaccalaureate admission materials at www.csumentor.edu. Applicants seeking a second bachelor's degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the $55 nonrefundable application fee. Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of www.csumentor.edu are expected unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available on the World Wide Web at www.csumentor.edu. Application forms may also be obtained from the Graduate Studies Office or the Admissions Office of any California State University campus.

2. Former graduate students of the university must apply for readmission if: a) they have been absent for more than one quarter 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 one quarter must again pay the $55 application fee.
368 / Graduate Programs

Requirements for a Master's Degree Program

The following standards apply to all master's degree approved graduate programs:

1. 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).

2. 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.

4. The program must follow the department curriculum in effect at the time the student is officially admitted (classified) in the major program or at the time the program is filed with the program graduate coordinator. Recommendations for any substitutions to the program must be approved in writing by the advisor and attached to the program.

5. All courses taken to satisfy the requirements for the degree must be completed with a minimum grade point average of 3.0 ("B") or better, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.

6. The program must include only courses with grades of "C" (2.0) or better. (Grades of "C-") (1.7) or less cannot be used.)

7. The program may not include more than 12 quarter units of work taken in unclassified status or before classified status was attained.

8. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree. Some programs must be completed within a five-year period. (See specific program requirements.)

9. Courses numbered 100 to 299 and in the 1000 to 9999 series cannot be applied toward a master's degree. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.

10. A course taken at another college with a grade such as CR, S, or P cannot be accepted on a master's degree study plan unless such a course with such a grade is accepted by that college or university toward a graduate degree.

11. Graduate Entrance Writing Requirement. Graduate students will be required to pass (or to have passed) the upper-division writing requirement before being fully classified into a graduate program, unless an earlier completion is specified for a particular program. This requirement can be satisfied through one of the following:

   1. Completion, with a grade of "B" (3.0) or better, within seven years prior to acceptance into the program of one of the following courses: EDUC 306, ENG 306, HON 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 (all graduate and post-baccalaureate students, regardless of citizenship, whose preparatory education was principally in a language other than English and have a minimum score of 550 on the TOEFL, or a minimum score of 213 on the Computer Based TOEFL, who fail to achieve a grade of "B" (3.0) or higher in one of the 306 courses will be required to retake any 306 class.)

   2. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university within seven years prior to acceptance into the program. The course must be approved by the Graduate Studies Office.

   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, University Hall, Room 368, (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 postbaccalaureate 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. Contact the Dean of Graduate Studies for format. All petitions for readmission must be submitted to the graduate coordinator according to the following schedule:

<table>
<thead>
<tr>
<th>Petition for:</th>
<th>Petition on file on or before:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>August 1</td>
</tr>
<tr>
<td>Winter</td>
<td>November 1</td>
</tr>
<tr>
<td>Spring</td>
<td>February 1</td>
</tr>
<tr>
<td>Summer</td>
<td>May 1</td>
</tr>
</tbody>
</table>

**Admission by Special Action and Probationary Status**

An applicant who does not meet university requirements for admission may be admitted by special action by the graduate coordinator of the program the student wishes to enter, or if unsure, by the Dean of Graduate Studies. Such admission may be in a probationary status, if in the opinion of the graduate coordinator, the student is likely to succeed in the program.

Ordinarily, consideration for probationary status is granted only to mature applicants who, while their total college record does not meet the admission requirements, have demonstrated sufficient ability through recent academic work or other means.

Students admitted on probationary status are subject to the probation and disqualification regulations as stated on Page 52. 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, CH-123.

**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 373).

**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 once “Late Registration” begins, 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**

[studentaffairs.csusb.edu/policies.html](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 Change of Program form in order to change master's programs and concentrations/options/tracks within a program. Requests to obtain this form should be directed to the Office of Graduate Admissions, CH-123.

### 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.

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 for Graduate Candidacy Standing) 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 and 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 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 for Graduate Candidacy Standing) in their major discipline until their degree is granted. Earned units are not degree-applicable nor will they qualify for financial aid. This is a variable unit course, see Page 43 for fee schedule.

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. Graduate students may file the Grad Check by the deadline without being advanced to candidacy, but the Grad Check cannot be completed until the advancement is received in the Office of Records, Registration and Evaluations.

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 refrilled.

### 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 2012/2013

- Summer 2012/2013, prospective December 2012/2013 and March 2013/2014 candidates are eligible to participate in the December 2012/2013 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 October.
- June 2013/2014

#### June 2013/2014

- December 2012/2013, March 2013/2014 and prospective June and September 2013/2014 candidates are eligible to participate in the June 2013/2014 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 wish-
ing to participate in the commencement ceremony will be required to pay a non-refundable commencement fee of $35.

Palm Desert Campus

The Palm Desert Campus holds one commencement exercise in June. In order for all eligible students to obtain information, the deadline to file a grad check and be included in the Commencement Program is the last working day in April. The non-refundable 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 and Doctoral Students

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

Credential Students 2013/2014

Students completing a Multiple Subject, Single Subject, Education Specialist Basic credential, or Designated Subjects credential during September 2012/2013 through August 2013/2014 are eligible to participate in a Credential Recognition Ceremony rather than commencement. The Credential Recognition Ceremony on the San Bernardino campus will be held in June 2013/2014. Specific information can be obtained in the College of Education, Associate Dean's Office, CE-335, (909) 537-5290. The Credential Recognition Ceremony in the Palm Desert Campus will be held in May 2013/2014. Specific information can be obtained from the Palm Desert Campus College of Education Office at (760) 341-2883.

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.

PhD 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 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 pursuing a degree or credential at the postbaccalaureate level are limited up to a maximum of nine quarters. Read more about financial aid policy and procedures on the Financial Aid website at finaid.csusb.edu.

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 600-level courses require prerequisites and are open only to students classified in a master's program.

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 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 the Dean of Graduate Studies, CH-123, (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 first 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.

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 one quarter 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 Evaluations, 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.

- **Visa Students.** Visa students must be registered as full-time students except, when after one quarter 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.

### 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).

Enrollment Verification

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

- Full time: 12 weighted units determined as follows:
  - 500-, 600-, and 700-level course weighted at 1.5 units
  - 300- and 400-level course weighted at 1.0 units
  - 100-200 no certification unless course is stated condition for admission to a graduate program

- 3/4 time: 9.0 to 11.5 weighted units as determined above

- 1/2 time: 6.0 to 8.5 weighted units as determined above

Veterans Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk. Student enrollment certification is based on the following unit loads:

- Full time: 12 weighted units determined as follows:
  - 500-, 600-, and 700-level course weighted at 1.5 units
  - 300- and 400-level course weighted at 1.0 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. Independent study and self-paced courses will be certified for monthly educational benefits as regular residence courses.
ACCOUNTANCY

Master of Science in Accountancy

Department of Accounting and Finance
Jack Brown Hall, Room 459
(909) 537-5704  msa.csusb.edu

FACULTY: Mohammad Bazaz, Rong Chen (Chair), Janet Courts, John Dorocak, Ron Escobar, Sung-Kyoo Huh, John Jin, Wu-Lung Li, Richard Lillie, Xian “Samantha” Liu, Vishal Munsif

The M.S. in Accountancy prepares students for a wide range of employment opportunities in public accounting, industry and finance, government and nonprofit organizations. The program is designed to produce individuals who are qualified with knowledge and skills in Professional Accounting and Accounting Information Systems. Graduates of the program are prepared to successfully challenge a professional examination for entry into the selected area; committed professional and career development beyond their formal education into highest executive levels of the selected area; capable of becoming leaders who exhibit high standards of ethical conduct within the profession; and prepared for doctoral and research positions.

MASTER OF SCIENCE IN ACCOUNTANCY

Requirements (45 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 bachelor’s degree from an accredited college or university;
2. Submission of an acceptable Graduate Management Admission (GMAT) score unless the GMAT score is waived by the coordinator of the MSA program or the chair of the department based on waiver guidelines set by the department. The following formula shall be used to determine an acceptable GMAT score: (GPA x 200) + GMAT score > or = 1,050, with a minimum 470 GMAT score and 2.75 GPA; GPA is based on the last 90 quarter (60 semester) units and may include postbaccalaureate work;
3. Submission of GMAT score by deadline for that term; if test result is not submitted on time, admission status will be unclassified graduate and grades of 2.0 (“C”) or better in all courses in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the MSA Coordinator or department chair; and grades of 2.0 (“C”) or better in all course work at the university, with a minimum grade point average of 3.0 (“B”), with at least 32 units completed at the university, consistent with the program plan (with a grade point average of 3.0 (“B”));
4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents;
   A. ACCT 503. Financial and Managerial Accounting or equivalent courses;
      ACCT 211. Introductory Accounting I
      ACCT 212. Introductory Accounting II
   B. ECON 503. Economic Analysis or equivalent courses;
      ECON 200. Principles of Microeconomics
      ECON 202. Principles of Macroeconomics
   C. FIN 503. Financial Management Concepts or equivalent courses
      FIN 313. Business Finance
      FIN 314. Corporate Financial Management
   D. ACCT 315. Accounting Information Systems
   E. ACCT 347. Managerial Accounting
   F. ACCT 372. Intermediate Accounting
   G. ACCT 373. Problem Areas in Intermediate Accounting
   H. ACCT 426. Introduction to Taxation
   I. ACCT 440. Financial Statement Auditing
   J. ACCT 574. Reporting Issues in Intermediate Accounting
   K. MGMT 230. Business Law
   L. MGMT 330. Legal Environment of Business

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 MSA Coordinator or department chair for more information.

Competence in the above prerequisite courses may be demonstrated by:
A. Formal completion of the course or its equivalents
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 MSA Coordinator or department chair. (Students requesting waiver of any prerequisite courses must petition the MSA Coordinator or department chair. Inquiries about a challenge examination or substitution for MGMT 306 should be directed to the Dean of Graduate Studies.)

6. Academic motivation and personal qualification demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.S. degree in Accountancy 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 MSA Coordinator or department chair.

Advancement to Candidacy

To be advanced to candidacy, a student must have
1. Achieved classified standing;
2. Completed at least 16 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 (“B”);
3. Completed an approved graduate program plan in consultation with the MSA Coordinator or department chair after achieving conditionally classified or classified status.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 32 units completed at the university;
2. At least 24 quarter units of 600-level course work;
3. At least 20 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective option as outlined in the curriculum section;
5. A grade point average of 3.0 (“B”) or better in all course work taken after admission to conditionally classified or classified status, and grades of 2.0 (“C”) or better in all courses in the program;
6. After advancement to candidacy, students must complete one of the following:
   A. ACCT 998. Comprehensive Project (0)
      In consultation with a faculty advisor, completion and defense of a written project before a committee of graduate faculty.
   B. ACCT 999. Comprehensive Examination (0)
      Successful completion of a comprehensive examination 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 their grade point average is below 3.0 ("B");
7. The graduation writing requirement is met upon successful completion of the culminating experience;
8. Any additional general requirements not cited above and listed on Page 368.

A "No credit" (NC) designation will be entered on the student's transcript if they fail the culminating experience requirement. Students who do not receive a passing grade on the culminating experience requirement on the first attempt must petition the MSA Coordinator or department chair for permission to retake the culminating experience requirement. Only students who are in classified status, have been advanced to candidacy, have obtained approval of the MSA Coordinator or department chair, and are not on probation may retake the culminating experience requirement.

Degree Requirements (45 units)
1. ACCT 610. Financial Reporting and Disclosure (4)
2. ACCT 615. Controllership (4)
3. ACCT 620. Internal Auditing and Management Control (4)
4. ACCT 629. Seminar in Tax and Business Decisions (4)
5. ACCT 642. International Accounting (4)
6. Culminating Experience
   To be determined in consultation with the MSA coordinator or department chair.
7. Minimum of 25 units chosen in consultation with the MSA coordinator or department chair.

Professional Accounting Option
- ACCT 536. Corporate and Partnership Taxation (4)
- ACCT 539. Advanced Accounting (4)
- ACCT 541. Advanced Auditing (4)
- ACCT 544. Accounting Law, Ethics, and Institutions (4)
- ACCT 547. Cost Accounting (4)
- ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
- ACCT 590. Seminar in Accounting (4)
- ACCT 605. Healthcare Accounting and Financial Analysis (4)
- ACCT 625. Seminar in Accounting Information Systems (4)
- ACCT 675. Internship in Accounting (4)
- ACCT 690. Advanced Topics in Accounting (4)
- ACCT 695. Graduate Independent Study (1-4)
- FIN 555. Trade and Business in Asia (4)
- FIN 602. Financial Theory and Corporate Finance (4)
- FIN 622. Entrepreneurial and Venture Finance (4)
- FIN 651. Financial Institutions and Markets (4)
- FIN 653. Investment Analysis and Portfolio Management (4)
- FIN 654. International Finance (4)
- FIN 680. Corporate Financial Strategy (4)

Students may not take more than a total of eight quarter units in any combination of College of Business & Public Administration 590, 675, and 690 courses. The program may not include more than 13 units in transfer credit from other universities. CSUSB 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 SCIENCE IN ACCOUNTANCY
(3:2 PROGRAM OPTION)
Requirements (45 units)
The Master of Science in Accountancy (MSA) 3:2 Option is a 75-77 unit program that is a variant of the regular MSA program. It provides CSUSB accounting students with an accelerated route to a graduate degree, with simultaneous awarding of both bachelor's and master's degrees. The 3:2 Option allows students to earn graduate credit for several elective courses taken during the junior and senior years, effectively decreasing the summed unit requirement for both degrees. The 3:2 Option provides a seamless process whereby students can progress from undergraduate to graduate status.

Admission to the Program
In addition to the general requirements of the university, specific requirements for being invited into the MSA 3:2 Option are:
1. Invitee must be a CSUSB accounting student with at least a junior year academic standing;
2. Invitee must have completed the four course performance review sequence (ACCT 315, 347, 372, and 373) with an average grade point for the course sequence of 3.0 or higher;
3. Invitee's overall CSUSB grade point average (GPA) should be 2.75 or higher.

Students who accept invitation into the MSA 3:2 Option program shall be considered as achieving classified status and shall get a waiver from the GMAT exam requirement for admission to the MSA degree program.

Advancement to Candidacy
To be advanced to candidacy, a student must have
1. Achieved classified standing;
2. Completed at least 16 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with the MSA coordinator or the department chair after achieving conditionally classified or classified status.

Requirements for Graduation
1. A minimum of 45 quarter units of acceptable graduate-level work (500 and 600 level courses) consistent with the program plan (with a grade point average of 3.0 ("B"), with at least 32 units completed at the university;
2. At least 24 quarter units of 600-level course work;
3. At least 20 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective option outlined in the degree requirements section;
5. A grade point average of 3.0 ("B") or better in all course work taken after admission to classified status, and grades of "C" or better in all courses in the program;
6. After advancement to candidacy, students must complete one of the following:
   A. ACCT 998. Comprehensive Project (0)
      In consultation with a faculty advisor, completion and defense of a written project before a committee of graduate faculty.
   B. ACCT 999. Comprehensive Examination (0)
      Successful completion of a comprehensive examination any fall, winter or spring term after advancement to candidacy.
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Students will not be allowed to do the project or take the comprehensive examination if their grade point average is below 3.0 ("B");

7. The graduate writing requirement is met upon successful completion of the culminating experience;

8. Any additional general requirements not cited above and listed in Graduate Programs.

A "No credit" (NC) designation will be entered on the student's transcript if they fail the culminating experience requirement. Students who do not receive a passing grade on the culminating experience requirement on the first attempt must petition the MSA Coordinator or department chair for permission to retake the culminating experience requirement. Only students who are in classified status, have advanced to candidacy, have obtained approval of the MSA Coordinator and/or the department chair, and are not on probation may retake the culminating experience.

Degree Requirements (45 units)

1. ACCT 610. Financial Reporting and Disclosure (4)
2. ACCT 615. Controllership (4)
3. ACCT 620. Internal Auditing and Management Control (4)
4. ACCT 629. Seminar in Tax and Business Decisions (4)
5. ACCT 642. International Accounting (4)

Note: Students who have taken ACCT 315, 442 and/or 536 may be waived for ACCT 620, 625 and/or 629 by the MAS Coordinator or department chair. These students must complete additional units of graduate work approved by the MSA Coordinator or department chair.

6. Culminating Experience

To be determined in consultation with the MSA Coordinator or department chair.

7. A minimum of twenty-five units chosen in consultation with the MSA Coordinator or the department chair.

Professional Accounting Option

ACCT 536. Corporate and Partnership Taxation (4)
ACCT 539. Advanced Accounting (4)
ACCT 541. Advanced Auditing (4)
ACCT 544. Accounting Law, Ethics, and Institutions (4)
ACCT 547. Cost Accounting (4)
ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
ACCT 590. Seminar in Accounting (4)
ACCT 605. Healthcare Accounting and Financial Analysis (4)
ACCT 625. Seminar in Accounting Information Systems (4)
ACCT 675. Internship in Accounting (4)
ACCT 690. Advanced Topics in Accounting (4)
ACCT 695. Graduate Independent Study (1-4)
FIN 555. Trade and Business in Asia (4)
FIN 602. Financial Theory and Corporate Finance (4)
FIN 622. Entrepreneurial and Venture Finance (4)
FIN 651. Financial Institutions and Markets (4)
FIN 653. Investment Analysis and Portfolio Management (4)
FIN 654. International Finance (4)
FIN 680. Corporate Finance Strategy (4)

Students may not take more than a total of eight quarter units in any combination of College of Business & Public Administration 590, 675, and 690 courses. The program may not include more than 13 units in transfer credit from other universities. CSUSB will not consider for transfer, credit course work from any institution which will not accept that work in its own advanced degree program.

See Page 391 for ACCT, FIN and IST course descriptions.
ANTHROPOLOGY

Department of Anthropology
Social and Behavioral Sciences Building, Room 327J
(909) 537-5502  anthropology.csusb.edu

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.

600. Proseminar in Anthropology
Survey of the concepts and methods that anthropologists employ to study, describe and analyze globalization. Prerequisite: consent of instructor. (4 units)

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. (2-5 units)
ART

Master of Arts in Art
with concentrations in
Art Education
Studio Art

Master of Fine Arts
Studio Art and Design

Department of Art
Visual Arts Center, Room 105
(909) 537-5802  art.csusb.edu

FACULTY:  Annie Buckley, Kurt Collins, Katherine Gray, Jiong Li, Richard Johnston, Sant Khalsa, George McGinnis (Emeritus), Thomas McGovern, Alison Petty, Brad Spence (Graduate Coordinator), Beth Steffel

MASTER OF ARTS IN ART (ART EDUCATION)
Requirements (45 units)

NOTE: No students are being admitted to the program for the 2012-2014 academic years.

The Master of Arts, Art Education emphasis is designed for K-12 art teachers with at least one year of teaching experience who wish to further develop their studio practice, art education pedagogy and teaching skills. The program offers a progressive perspective on art education that encourages innovative approaches and leadership in the field. Curriculum is balanced between theory and practice including: studio work, art education theory, art history and art criticism. Students receive intensive interaction with faculty and other students.

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 approved graduate-level work, with at least 32 completed at this university; and achieved a minimum grade of "B" (3.0) in all courses taken; and a minimum of 30 quarter units of upper-division art comparable to those required of a major in art at this University. (The Art Department determines which courses are comparable);
2. Completion of a minimum of 10 quarter units of upper-division studio work in a single area of specialization;
3. Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Completion of one year, K-12 art teaching experience
7. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following items:
   a. A portfolio review displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study within the studio area. A portfolio consists of 12-20 images of the applicant's artworks and 12-20 images of applicant students' work in the form of jpegs or on a CD. The portfolio must be accompanied by a typed list of artworks with the applicant's name, and title, medium, size and date for each artwork.
   b. A two- to three-page typed "Statement of Purpose" describing the conceptual and technical aspects of the artwork in the portfolio and the applicant's reason for seeking graduate studies in art education. This statement should also demonstrate applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will be used by the committee to evaluate the student's writing and critical thinking skills.
   c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in art and/or related fields who are able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.
   d. Applicants will submit a current Vitae and an interview will be arranged by the art education faculty and/or the Graduate Coordinator. During this interview, applicants will write a short response paper on selected issues in art education.

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. Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

Applications to the M.A. in Art, Art Education program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.A. in Art, Art Education Program.

Contact the Art Department graduate coordinator to request a program application and further information.

Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art with an emphasis in Art Education, and is thus eligible to enroll in ART 696 Master's Project in Art Education. To be formally advanced to candidacy, the student must have:
1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;
2. Achieved classified status;
3. Been accepted by an art education advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and art education advisor;
6. Filed a program of graduate course work prepared in consultation with the student's art education advisor and approved by the Art Department graduate coordinator.

Requirements for Graduation

1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable art project, a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator, and a substantial art education research paper that will be presented during a public forum;
4. The graduation writing requirement is met upon successful completion of the art education research paper that accompanies the master's project in ART 696;
5. Any general requirements not cited above for graduate degrees and noted in the university catalog.
Degree Requirements (45 units)
1. ART 520. Contemporary Art, Theory and Criticism (4)
2. ART 595. Independent Study (1-6) for a total of (7) (chosen in consultation with the art education advisor)
3. ART 596. Strategies for Curriculum and Instruction (4)
4. ART 603. Graduate Studio in Art (2) for a total of (8)
5. ART 620B. Graduate Studio Critique (2) for a total of (4)
6. ART 618. Graduate Seminar in Contemporary Art Issues and Practices (4)
7. ART 641. Art Education: Survey of Research and Methodologies (4)
8. ART 643. Art Education: Research Statement and Literature Review (2)
9. ART 696. Master's Project in Art Education (4)
10. Four 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.

MASTER OF ARTS IN ART (STUDIO ART)
Requirements (45 units)
NOTE: No students are being admitted to the program for the 2012-2014 academic years.

The Master of Arts in Art, Studio 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.

Admission to the Program
In addition to the general requirements of the university, specific requirements for admission to classified graduate standing are:
1. A baccalaureate degree from an accredited institution with a minimum of 45 quarter units of upper-division art comparable to those required of a major in art at this university;
2. Completion of a minimum of 20 quarter units of upper-division work in the area of specialization for the Master of Arts degree program;
3. Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following:
   a. A portfolio review displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study within the studio area. A portfolio consists of 12–20 images of the applicant's artworks in the form of jpegs on a CD. The portfolio needs to be accompanied by a typed list of artworks with the applicant's name, title, medium, size and date for each artwork;
   b. A "Statement of Purpose" one to two typed pages in length describing the conceptual and technical aspects of the artwork and the applicant's reason for seeking graduate studies in art. This statement should also demonstrate the applicant's knowledge of historical and contemporary art in relation to their work;
   c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in the field of art who are able to assess the student's competence and make relevant comments on the student's likely success in a graduate art program.

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.

Applications to the M.A. in Art program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.A. in Art Program. Contact the Art Department graduate coordinator to request a program application and further information.

Advancement to Candidacy
Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art, and is thus eligible to enroll in ART 695. Master's Project. To be formally advanced to candidacy, the student must have:
1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;
2. Achieved classified status;
3. Been accepted by an area advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and graduate coordinator;
6. Filed a program of graduate course work prepared in consultation with the student's area advisor and approved by the Art Department graduate coordinator.

Requirements for Graduation
1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator;
4. The graduation writing requirement is met upon successful completion of the written report that accompanies the master's project in ART 695;
5. Any general requirements not cited above and noted on Page 368.

Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

Degree Requirements (45 units)
1. ART 520. Contemporary Art, Theory and Criticism (4)
2. Fifteen units in a single area of concentration chosen from:
   ART 603. Graduate Studio in Art (2)
   ART 604. Graduate Studio in Art (5)
3. ART 615. Graduate Seminar in Art (1-4) for a total of (4)
4. ART 620B. Graduate Studio Critique (2) for a total of (6)
5. ART 630. Professional Practices in the Visual Arts (4)
6. ART 695. Master's Project in Studio Art (4)
7. Four units of upper-division art history courses chosen with prior approval of the student's area advisor and the art department graduate coordinator.
8. Four units of electives and/or independent study 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.
MASTER OF FINE ARTS IN STUDIO ART AND DESIGN

Requirements (90 units) (see Addendum for program changes)

The Master of Fine Arts in Studio Art and Design provides rigorous study for students with a strong direction and focus in art and/or design and a high level of technical proficiency. The program provides advanced study and practice in preparation for professional careers in studio art and design or teaching in higher education. Graduates will be prepared to take their places in the visual arts community and make significant contributions to our visual culture. The program focuses on creative studio work, supplemented by art history and theory, professional and critical writing, graduate studio critiques, studio electives, professional development and independent study.

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 courses comparable to those required of a major in art at this university. The Art Department determines which courses are comparable;

2. Completion of a minimum of 20 quarter units of upper-division studio art;

3. Completion of a minimum of 20 quarter units in art history; a minimum of eight should be upper-division units, and at least one course in Contemporary Art Criticism and Theory that is equivalent to Art 520;

4. A grade point average of 3.0 ("B") or better in all art courses taken;

5. Completion of the graduate entrance writing requirement;

6. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following items:

   a. A portfolio displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study. A portfolio consists of 12–20 images of the applicant's artworks in the form of jpeg or pdf on a CD. The portfolio needs to be accompanied by a typed list of artworks with the applicant's name, and title, medium, size and date for each artwork.
   b. A three- to four-page typed "Statement of Purpose" describing the conceptual and technical aspects of the artwork and the applicant's reason for seeking graduate studies in art. This statement should also demonstrate applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will be used to evaluate the student's writing ability and critical thinking skills.
   c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in the field able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.

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. Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements.

Applications to the M.F.A. in Studio Art and Design program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.F.A. in Studio Art and Design program. Contact the Art Department graduate coordinator to request a program application and further information.

Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Fine Arts program in Studio Art and Design, and is thus eligible to enroll in ART 695, Master's Project. To be formally advanced to candidacy, the student must have:

1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;

2. Achieved classified status;

3. Been accepted by an advisor to supervise the course of study;

4. Completed, with the approval of the Art Department graduate coordinator, at least 30 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in each of these courses;

5. Successfully completed an advancement review conducted by the Department of Art graduate committee and graduate coordinator;

6. Filed a program of graduate course work prepared in consultation with the student's advisor and approved by the Art Department graduate coordinator.

Requirements for Graduation

1. A minimum of 90 quarter units of approved graduate-level work, with at least 63 completed at this university;

2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Fine Arts degree requirements;

3. Completion and exhibition of an acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator;

4. The graduation writing requirement is met upon successful completion of the written report that accompanies the master's project in ART 695;

5. Any general requirements not cited above for graduate degrees and noted on Page 368.

Degree Requirements (90 units)

1. ART 595. Independent Study (1-5) for a total of (5)

2. ART 604. Graduate Studio in Art (5) for a total of (30)

3. ART 617. Graduate Seminar in Critical Theory and Methodology (4)

4. ART 618. Graduate Seminar in Contemporary Art Issues and Practices (4)

5. ART 620D. Graduate Studio Critique (4) for a total of (24)


7. ART 695. Master's Project (5)

8. Art History Elective (4) to be approved by the graduate coordinator.

9. Ten units of electives appropriate to the student's goals. Courses may be chosen from upper-division offerings of any department in the university subject to prior approval by the student's area advisor and the Art Department graduate coordinator.

COURSE OFFERINGS IN ART (ART)

Upper Division

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. 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. Materials fee required. Prerequisite: consent of instructor. (1-5 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. (1-6 units)

596. Strategies for Curriculum and Instruction
Current art education methodologies, research and theory applied to practice, assessment, and classroom management strategies. Design of curriculum units and lesson plans based on state and district standards. Materials fee required. Prerequisite: admission to the Master of Arts in Art, Art Education Emphasis. (4 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

603. Graduate Studio in Art
Investigation of advanced studio problems focusing on the development of individual directions. May be repeated for credit. Materials fee may be required. Formerly ART 602. Prerequisite: admission to the M.A. in Art program. Corequisites: concurrent enrollment in ART 615 and 620 (2 units).

604. Graduate Studio in Art
Investigation of advanced studio problems focusing on the development of individual directions. May be repeated for credit. Materials fee required. Formerly ART 605. Prerequisite: admission to the M.A. in Art or M.F.A. in Studio Art and Design. Corequisites: (M.A.) concurrent enrollment in ART 615 and 620; or (M.F.A.) concurrent enrollment in ART 620. (5 units)

615. Graduate Seminar in Art
Advanced study in contemporary art and theory with individual and group projects. May be repeated and a maximum of four units may be applied to the M.A. in Art, Studio Art. Materials fee required. Prerequisite: admission to the M.A. in Art. (1-4 units)

617. Graduate Seminar in Critical Theory and Methodology
Theoretical, critical and methodological approaches with emphasis on contemporary visual arts. Research paper is required in this course. Materials fee required. Prerequisite: admission to the M.F.A. in Studio Art and Design. (4 units)

618. Graduate Seminar in Contemporary Art Issues and Practices
Current issues and practices and their relevance to contemporary artists. Materials fee required. Prerequisite: admission to the M.A. in Art, Art Education or M.F.A. in Studio Art and Design. (4 units)

620. Graduate Studio Critique
Weekly critique and discussion of individual student work. May be repeated and a maximum of six units may be applied to the M.A. in Art, Studio Art or four units to the M.A. in Art, Art Education. Enrollment required every quarter that student is enrolled in the M.F.A. in Studio Art and Design. Materials fee required. Graded credit/no credit. Prerequisite: admission to one of the Master's programs in Art. (2 or 4 units)

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. Writing an extended artist's statement that fulfills the graduate writing requirement. Materials fee required. Prerequisite: admission to the M.A. in Art, Studio Art or the M.F.A. in Studio Art and Design. (4 units)

641. Art Education: Survey of Research and Methodologies
Survey and examination of existing research in the field of art education. Various approaches to qualitative and quantitative research methodologies used in art education and of the history of the field. Materials fee required. Prerequisite: admission to the M.A. in Art, Art Education program. (4 units)

643. Art Education: Research Statement and Literature Review
Development of a research statement and literature review of student's chosen topic. Emphasis on in-class, guided, peer critique, and independent research. Materials fee required. Prerequisite: ART 641. (2 units)

695. Master's Project in Studio Art
Preparation and exhibition of works produced by student in the M.A. in Art, Studio Art or the M.F.A. in Studio Art and Design. A report and documentation of the project required. Open only to students who have been advanced to candidacy. Materials fee required. Prerequisite: successful completion of advancement review conducted by the Department of Art graduate committee and graduate coordinator. (4-5 units)

696. Master's Project in Art Education
Preparation and participation in a group exhibition of artwork produced in the student's area of studio emphasis, and preparation and presentation of research in art education. A report and documentation of the artwork, and a completed research paper required. Open only to students who have been advanced to candidacy. Materials fee required. Prerequisites: admission to the M.A. in Art, Art Education; successful completion of advancement review conducted by the Department of Art graduate committee, graduate coordinator, and art education 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)
BIOLOGY

Master of Science in Biology

Department of Biology

Biological Sciences Building, Room 329
(909) 537-5305 biology.csusb.edu

FACULTY: Colleen Bonney, Nicole Boumias, Klaus Brasch (Emeritus), Herbert Brunknor, Michael Chao, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalfe, Kevin Middleton, Laura Newcomb, Paul Orwin, Tomasz Owerkowicz, David Polcyn (Chair), Scott Shaffer, John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida (Graduate Coordinator), Jeffrey Thompson, Kimberlyn 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:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in biology or associated fields (e.g., microbiology, botany, zoology or chemistry with at least 30 quarter units of upper-division biology course work);
3. One year each of laboratory courses in: general biology, general chemistry, organic chemistry and physics;
4. One full-term course in basic calculus or methods in calculus;
5. Upper division courses in cellular or molecular biology, genetics, ecology, and organismal biology. Students lacking one 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;
6. 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;
8. Submission to the Department of Biology Graduate Committee scores from the Graduate Record Examination (GRE) including advanced testing in biology;
9. 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;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the Department of Biology Graduate Committee, and with a minimum grade point average of 3.0 ("B");
4. Gained a recommendation for advancement to candidacy from the Department of Biology Graduate Committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the Department of Biology Graduate Committee;
6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with no less than 32 units completed in residence at this university and with at least 24 units included in the formal program, with no less than 32 units completed in residence at this university and with at least 24 units completed in residence at this university;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in each course in the program;
4. Completion of a final oral examination concluded by acceptance of the thesis (Plan I); or satisfactory completion of the Comprehensive Final Examination (Plan II);
5. The graduation writing requirement is met upon successful completion of the thesis or the written portion of the comprehensive examination;
6. Any additional general requirements not cited above and listed on Page 368.

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.
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 program.

Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.

Repeat of courses or the comprehensive final examination require approval of the Department of Biology Graduate Committee and may be granted for serious and compelling reasons.

**Thesis 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)
2. BIOL 690. Graduate Seminar in Biology (2)
3. BIOL 692. Graduate Research Methods in Biology (2)
4. BIOL 699A. Thesis Research and Thesis I (3)
5. BIOL 699B. Thesis Research and Thesis II (3)
6. BIOL 699C. Thesis Research and Thesis III (3)
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 596, 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.

**Plan II: Non-Thesis Program**

1. BIOL 601. Teaching Assistant Training in Biology (2)
2. BIOL 690. Graduate Seminar in Biology (2)
3. Eight courses, with a minimum of 16 units, of 600-level courses listed under “Course Categories” below. Must include at least two 600-level courses from each of the following categories:
   A. Cellular and Molecular Biology
   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 596, 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.
6. Successfully complete BIOL 999.

**Course Categories**

**A. 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 590I. 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 651. Advanced Topics in Molecular Genetics (2)
- BIOL 678. Advanced Topics in Microbiology (2)

**B. 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 622. Advanced Topics in Zoology (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 Topics in Immunology (2)

**C. Ecology and Evolutionary Biology**
- BIOL 522. Population Genetics (4)
- BIOL 565. Physiological Ecology (6)
- BIOL 590B. Senior Seminar: Biosystematics (2)
- BIOL 590E. Senior Seminar: Ecology (2)
- BIOL 590G. Senior Seminar: Genetics (2)
- BIOL 650. Advanced Topics in Genetics (2)
- BIOL 664. Biosystematics (2)
- BIOL 670. Advanced Topics in Ecology (2)
- BIOL 680. Advanced Topics in Evolution (2)
## 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)

#### 503. Plant Biology for Teachers
Examination of plant anatomy, morphology, physiology, ecology, and human use, as it applies to the Science Content Standards for California Public Schools. Not acceptable for meeting formal course requirements for the B.A., B.S., or M.S. in biology at CSUSB. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: one college-level biology course and graduate or postbaccalaureate standing, or consent of instructor. (4 units)

#### 505. Biostatistics
Provides an understanding of the design of biological experiments and analysis of data. Topics will include experimental design and sampling protocols, techniques for displaying and describing data, probability, and hypothesis testing. Surveys statistical approaches to the analysis of proportions and frequencies, comparisons of means among numerical variables, regression, and correlation, as well as non-parametric approaches. Formerly a topic under BIOL 490. Four hours lecture and three hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better, MATH 192 or 211, and consent of instructor. (5 units)

#### 513. Animal Tissue Culture
Introductory course in the theory and concepts of animal tissue culture including fundamentals of tissue culture techniques, sub-culturing and maintenance of cell lines. Strong emphasis on stem cell technology. Formerly offered as a topic under BIOL 490 and 491. Two hours lecture and three hours laboratory. Materials fee required. Prerequisite: BIOL 300. (5 units)

#### 514. Conservation Biology
Examination of factors influencing the loss of biological diversity including habitat loss and fragmentation, loss of genetic variation, and species extinction. The science of biological conservation necessarily overlaps with other disciplines including wildlife and resource management, law, economics, and ethics. Formerly a topic under BIOL 490. Prerequisites: BIOL 300 with a grade of "C" or better, and BIOL 321 or 450. (4 units)

#### 515. Global Change Biology
An examination of changing ecological and biogeochemical system interactions at selected times in the earth's history including, but not limited to, the modern era. Class exploration of causes and consequences of contemporary global change for biological systems including displaced populations, disrupted ecological interactions, and altered epidemiological patterns. Prerequisites: BIOL 300 with a grade of "C" or better, and an upper-division lab course in ecology (BIOL 349, 450, or 455) or consent of instructor. (4 units)

#### 522. Population Genetics
Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 423, 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, 423, 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. Prerequisites: BIOL 400, or BIOL 300 with a grade of "C" or better and consent of instructor. (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 400, or BIOL 300 with a grade of "C" or better and consent of instructor. (5 units)
575. Internship in Biology
Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units may be applied towards the biology major requirements. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration.
A. General (2 units)
B. Pre-Health (2 units)
C. Biotechnology (2 units)
D. Wildlife Biology (2 units)
E. Botany (2 units)
F. Science Education (2 units)
G. Museum Science (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. Four 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)

591. Biology Seminar
Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the undergraduate major requirements in Biology. May be taken three times for credit toward elective units in the Master of Science program in Biology. Lecture only. Graded credit/no credit. Formerly BIOL 390. Prerequisite: BIOL 300 with a grade of "C" or better. (1 unit)

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)

596. Independent Research
Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 596 may be applied toward graduation. Graded credit/no credit. Formerly BIOL 595. All students will be required to present research findings at least once per academic year at quarterly Biology Department colloquium until their projects are complete. All students will be required to attend the Biology Department colloquium each quarter until their projects are completed. 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 form 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. (1-6 units)

597. Directed Study in Science Education
Readings and library research on the pedagogical content knowledge of a specific area of biology. This course should be taken concurrently with or shortly after taking an upper-division course in the relevant area of biology. Graded credit/no credit. May be repeated for credit. No more than four units may be applied toward degree requirements for the BA in Biology-Integrated Teaching Track; no more than two units may be applied toward biology elective requirements in other degree options. 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 unit)

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. Graded credit/no credit. 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)

622. Advanced Topics in Zoology
An in-depth consideration of selected research areas in zoology. 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)

651. Advanced Topics in Molecular Genetics
An in-depth examination of current research in molecular genetics. May be repeated 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 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 Topics in Immunology
An in-depth examination of current research in cellular and molecular immunology. May be repeated for credit as topics change. Prerequisite: BIOL 573. (2 units)

678. Advanced Topics in Microbiology
An in-depth examination of current research in microbiology. May be repeated for credit as topics change. 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)

691. Current Topics in Biology
Faculty supervised discussion in journal club format. Students will learn how to interpret, evaluate, present, and critique recently published research articles in various subfields of biology. May be repeated up to three times for credit. Graded credit/no credit. (1 unit)

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. (1-3 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. (1-6 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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. I. (3 units)
B. II. (3 units)
C. III. (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)
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. IST 309. Information Systems and Technology
E. One of the following:
  MGMT 302. Management and Organizational Behavior
  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
J. SCM 304. Principles of Supply Chain Management

Note: ACCT 503, ECON 503, and FIN 503 are intensive intro-
ductive courses taught at an accelerated pace and cover material otherwise available in two lower-
dvision 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.)

5. 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;

6. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must take the Test of English as a Foreign Language (TOEFL) or complete Level 6 of CSUSB's ESL program or score a 7.0 on the IELTS exam.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the college graduate director.

Advancement to Candidacy
To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, at least 16 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 (“B”);
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
Degree Requirements (48 units)

1. ACCT 606. Accounting for Managerial Decision-Making (4)
2. FIN 602. Financial Theory and Corporate Finance (4)
3. IST 609. Information Systems and Technology Management (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)

Culminating Experience (0 units)
1. ADMN 995. M.B.A. Portfolio (0)
2. One of the following
   ADMN 998. Comprehensive Project (0)
   ADMN 999. Comprehensive Examination (0)

Concentration (20 units)
1. 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)
   ADMN 580. Doing Business Internationally (2 or 4)
   FIN 555. Trade and Business in Asia (4)
5. One additional elective either chosen from the two courses not chosen in category 4 above, or any other 600-level business administration concentration course approved by the MBA director and the department chair.

Entrepreneurship Concentration
1. MGMT 621. Entrepreneurship and New Ventures (4)
2. MGMT 623. Planning the New Venture (4)
3. MGMT 625. New Venture Planning and Strategy (4)
4. Eight units chosen from:
   FIN 622. Entrepreneurial and Venture Finance (4)
   IST 623. Entrepreneurial Information Management (4)
   MGMT 545. New Venture Resource Requirements (4)
   MGMT 547. Managing a Growing Business (4)
   MGMT 620. Business Law for Entrepreneurs (4)
   MKTG 624. Marketing for Entrepreneurs (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:
   ADMN 580. Doing Business Internationally (2 or 4)
   FIN 523. Financial Institutions and Markets (4)
   FIN 527. Financial Derivatives (4)
   FIN 534. Export-Import Financing (4)
   FIN 546. Student Managed Investment Fund (2)
   FIN 555. Trade and Business in Asia (4)
   FIN 585. Real Estate Finance (4)
   FIN 622. Entrepreneurial and Venture Finance (4)
   FIN 655. Management of Financial Institutions (4)
   FIN 675. Internship in Finance (4)
   FIN 690. Advanced Topics in Finance (4)
   IST 646. Information Systems Planning, Strategy and Policy (4)

Concentrations are available in accounting, entrepreneurship, finance, global business, cyber security, information systems and technology, 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.
Global Business Concentration
1. MGMT 626. International New Venture Development (4)
2. MGMT 650. Managing and Leading Global Business (4)
3. Four units chosen from:
   - ADMN 580. Doing Business Internationally (2 or 4)
   - FIN 654. International Finance (4)
   - MKTG 670. Global Marketing Strategies (4)
   - SCM 611. Global Supply Chain Management and Logistics (4)
4. Eight units chosen from one of the following:
   - International Business
     1. Four units chosen from:
        - ACCT 642. International Accounting (4)
        - FIN 555. Business and Trade in Asia (4)
        - FIN 654. International Finance (4) (if not taken previously)
        - IST 680. International Electronic Commerce (4)
        - MKTG 670. Global Marketing Strategies (4) (if not taken previously)
        - SCM 611. Global Supply Chain Management and Logistics (4) (if not taken previously)
     2. Four units of international experience or foreign business language chosen from:
        - ADMN 675. Internship (4) (must have international focus)
        - ADMN 690. Advanced Topics in Administration (4) (must involve international travel and study)
        - ARAB 316. Arabic for the Professions (4)
        - FREN 409. Business French (4)
        - GER 312. Business German (4)
        - SPAN 316D. Spanish for the Professions: Business (4)
   - Study Abroad
     1. Eight units of graduate-level business courses while studying abroad in a program approved by the Global Management Center.
   - Information Systems and Technology Concentration
     1. IST 646. Information Systems Planning, Strategy and Policy (4)
     2. IST 647. Information Based Management (4)
     4. Eight units chosen from:
        - IST 590. Seminar in Information Systems and Technology (4)
        - IST 595. Independent Study (4)
        - IST 623. Entrepreneurial Information Management (4)
        - IST 645. Information Systems Analysis and Design (4)
        - IST 650. Information Decision Systems (4)
        - IST 670. Business Geographical Information Systems Strategies (4)
        - IST 675. Internship in Information Systems and Technology (4)
        - IST 680. International Electronic Commerce (4)
        - IST 690. Advanced Topics in Information Systems and Technology (4)
   - Management Concentration
     1. Twenty units chosen from:
        - ADMN 580. Doing Business Internationally (2 or 4)
        - 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 650. Managing and Leading Global Business (4)
        - MGMT 655. Leadership for Modern Organizations (4)
        - MGMT 660. Managing Teams in the Workplace (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 from 500- or 600-level courses chosen in consultation with an advisor.

Supply Chain Management Concentration
1. SCM 611. Global Supply Chain Management and Logistics (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, 580, 590, 595, 675, 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:
1. Minimum of five years experience as a manager in charge of a significant annual budget, staff, and/or operations;
2. Participants are required to have basic skills and competence in computer applications i.e., word processing, spreadsheet, e-mail, and the Internet;
3. Completion of the graduate entrance writing requirement;
4. A bachelor's degree from an accredited college;
5. A letter of Corporate or Individual Sponsorship. This letter ensures that the participants' sponsors will agree to allow them to attend classes two times per week, and determines if their sponsors plan to cover all or part of their educational fees. If a participant is self-sponsored, the employer should confirm their agreement with his/her attendance;
6. An acceptable Graduate Management Admission Test (GMAT) score which may be waived upon proof of substantial work experience (minimum 10 years) and significant managerial or professional experience (minimum of five 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 personnel, 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;
7. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or postsecondary level where English was the language of instruction must take the Test Of English as a Foreign Language (TOEFL) or complete Level 6 of CSUSB's ESL Program or score a 7 on the IELTS exam.

Suitability for admission to the program will be based on an examination of the entire application package.

Advancement to Candidacy
To be advanced to candidacy, a student must have:
1. Achieved classified standing;
2. Completed, at least 20 quarter units of applicable graduate level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of M.B.A. director.

Requirements for Graduation
To qualify for the degree, students are required to:
1. Complete the 48 quarter units (exclusive of the two prerequisite courses) with a grade point average of 3.0 ("B") or better;
2. The graduation writing requirement is met upon successful completion of the comprehensive project or examination;
3. At least 28 quarter units at 600-level course work;
4. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
5. A grade point average of 3.0 ("B") in all courses taken after admission to conditionally classified or classified status, and grades of 2.0 ("C") or better in ALL courses in the program;
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. IST 609. Information Systems and Technology Management (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)
1. ADMN 995. M.B.A. Portfolio (0)
2. One of the following
   A. ADMN 998. Comprehensive Project (0)
   B. ADMN 999. Comprehensive Examination (0)

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, 675, and 690 courses.

MASTER OF BUSINESS ADMINISTRATION FOR PROFESSIONALS

Requirements (56 units)

The M.B.A. for Professionals is a variant of the regular M.B.A. It offers a high quality learning experience for professionals from a variety of fields such as engineering, financial management, information technology, human resources management, marketing, operations management, accounting, and other administrative and services fields. Participants are working professionals who hold key decision-making positions within their organizations and should have at least five years of professional work experience. They should also be career professionals who seek to become better managers, have aspirations of assuming positions with increasing levels of responsibility, and want to obtain advanced business education and training in order to become more effective decision-makers in a specific concentration.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the M.B.A. for Professionals program are:
1. Minimum of five years of professional work experience;
2. 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 Employer or Individual Sponsorship. This letter is intended to help ensure that the participants' sponsors will agree to allow them to attend classes two times per week, and establishes whether their sponsors plan to cover all or part of their educational fees. If a participant is self-sponsored, the employer should confirm their agreement with his/her attendance;


6. An acceptable Graduate Management Admission Test (GMAT) score which may be waived upon proof of substantial work experience (minimum 10 years) which includes significant managerial or professional experience (minimum of five 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 personnel, 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,” or “chief operating officer.” Professional experience is work that requires advanced knowledge acquired by a prolonged course of specialized study and involves work that is predominately intellectual and varied in character. Examples would include medical doctors, dentists, psychologists, lawyers, and certified public accountants.

7. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or postsecondary level where English was the language of instruction must take the Test Of English as a Foreign Language (TOEFL) or complete Level 6 of CSUSB’s ESL Program or score a 7.0 on the IELTS exam. Suitability for admission to the program will be based on an examination of the entire application package.

Advancement to Candidacy

To be advanced to candidacy, a student must have:
1. Achieved classified standing;
2. Completed at least 20 quarter units of applicable graduate level course work at the university, with a minimum grade point average of 3.0 (“B”);
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of M.B.A. director.

Requirements for Graduation

To qualify for the degree, students are required to:
1. Complete the 48 quarter units (exclusive of the two prerequisite courses) with a grade point average of 3.0 (“B”) or better;
2. The graduation writing requirement is met upon successful completion of the comprehensive project or examination;
3. At least 28 quarter units of 600-level course work;
4. At least 24 quarter units of credit taken in a specific concentration after advancement to candidacy for the degree;
5. A grade point average of 3.0 (“B”) in all courses taken after admission to conditionally classified or classified status, and grades of 2.0 (“C”) or better in ALL courses in the program;
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. Graduate Portfolio.

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 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. IST 609. Information Systems and Technology Management (4)
4. MGMT 601. Organization Theory and Behavior (4)
5. MGMT 685. Corporate Theory and Behavior (4)
6. MKTG 605. Marketing Management (4)
7. SCM 607. Supply Chain Management (4)

Functional Elective Courses (20 units)
1. Twenty units chosen in consultation in a specific concentration. Culminating Experience (0 units)
1. ADMN 995. M.B.A. Portfolio (0)
   And one of the following:
   ADMN 998. Comprehensive Project (0)
   ADMN 999. Comprehensive Examination (0)

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, 675, and 690 courses.

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 Systems and Technology, Management, Marketing, 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. (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)

541. Advanced Auditing

Continuation of ACCT 440 with emphasis on audit sampling, test design, impact of electronic data processing (EDP) upon audit planning, and assurance and attestation services other than audit services. Three hours lecture and two hours activity laboratory. Formerly ACCT 441. Prerequisite: ACCT 440. (4 units)
544. 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. Formerly ACCT 444. Prerequisite: MGMT 330 or equivalent. (4 units)

547. 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 447. Prerequisite: ACCT 347 or equivalent. (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. (4 units)

574. Reporting Issues in Intermediate Accounting
Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374. Prerequisites: ACCT 373 and the upper-division writing requirement. (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. MBA Prerequisite: ACCT 606. MSA Prerequisite: consent of coordinator or department chair. (4 units)

615. Controllership
In-depth study of accounting techniques, concepts and procedures related to the functions and responsibilities of the controller. Consideration of management reporting systems, planning and controlling functions, resource allocation, transfer pricing, the general ledger-based system, departmental expense control and investment planning. MBA Prerequisite: ACCT 606. MSA Prerequisite: consent of coordinator or department chair. (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. MBA Prerequisite: ACCT 610. MSA Prerequisite: consent of coordinator or department chair. (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. MBA Prerequisite: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair. (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. MBA Prerequisite: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair. (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. MBA Prerequisite: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair. (4 units)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (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. (1-4 units)
998. Comprehensive Project
In consultation with the MSA coordinator and/or department chair, completion and defense of a written project based on the accounting concentration before a committee of accounting graduate faculty. Open only to students who have advanced to candidacy and with the approval of the MSA Coordinator and/or department chair. (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. Must be taken in the final quarter of coursework. May be repeated one time with approval of the MSA Coordinator and/or department chair. Prerequisites: advancement to candidacy, approval of MSA coordinator and/or department chair, and in good academic standing. (0 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)

580. Doing Business Internationally
Introduction to and comparison of the distinctive characteristics of the business environments, business operations, financial institutions, regulations, and culture of different regions of the world. Includes study abroad as the conclusion of the course.
A. Asia. Formerly a topic under ADMN 590. (2 or 4 units)
C. India. Formerly a topic under ADMN 590. (2 or 4 units)
E. Europe. Formerly a topic under ADMN 590. (2 or 4 units)
G. Africa. (2 or 4 units)
I. Latin America. (2 or 4 units)
K. Middle East. (2 or 4 units)
M. Korea (2 or 4 units)

590. Seminar in Administration
Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. (2-4 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.

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)

675. Internship
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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (4 units)

690. Advanced Topics in Administration
Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change. (2-4 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. (1-6 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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)
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)

527. Financial Derivatives
Managing individual stock and stock portfolio price risks, interest rate risk, currency exchange-rate risk, and other financial risks using options, futures, forwards, and swaps. Emphasis on hedging risk than on speculative uses of financial derivatives. Prerequisites: FIN 313 and 314 or consent of instructor. (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. Prerequisite: FIN 313. (4 units)

546. Student Managed Investment Fund
Gain hands-on investment experience in managing real money. Learn to be an equity analyst and junior portfolio manager. Build an investment portfolio by selecting securities from the equity and bond markets. May be repeated for a total of four units. Prerequisite: consent of department. (2 units)

555. Trade and Business in Asia
Practical approach to doing business with Asian countries and communities by introducing their historical, cultural, and business contexts. Topics also include the historical experiences and cultural contributions of Asian Americans to American society, and international business practices including documentation, customs clearance procedures, shipping, the methods and instruments of payment, and international commercial terms. (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 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)

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)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (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, invest-
ment 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)

695. Graduate Project
Independent graduate research in finance. Project will be under direction of a faculty member. Prerequisites: advancement to candidacy, written approval of student's graduate project committee, department chair and graduate director. (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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

COURSE OFFERINGS IN INFORMATION SYSTEMS AND TECHNOLOGY (IST)

Upper Division

511. Cyber Defense
Advanced study of information assurance and security including methods and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, red teaming methods, countermeasures, practices and law. Students will work in simulated environments and will investigate crimes and experience various security scenarios. Formerly a topic under IST/INFO 590. Prerequisites: the upper-division writing requirement, IST 410 or 610 or consent of instructor. (4 units)

525. Computer Forensics
A systematic inspection of computer systems for evidence of a crime and use in civil litigation. Identify sources of digital evidence, preserve and analyze digital evidence, present findings, and learn tools computer forensics experts use. Formerly a topic under IST/INFO 590. Prerequisites: IST 309 and 372, the upper-division writing requirement, or consent of instructor. (4 units)

575. Internship in Information Systems and Technology
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. Formerly INFO 575. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

590. Seminar in Information Systems and Technology
An intensive study of some phase of information systems and technology to be developed by the instructor. May be repeated for credit as topics change. Formerly INFO 590. Prerequisite: the upper-division writing requirement. (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. Formerly INFO 595. Prerequisites: a minimum overall grade point average of 3.0, the upper-division writing requirement, 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 Systems and Technology Management
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. Formerly INFO 609. Prerequisite: IST 309. (4 units)

610. Information Assurance Policy and Management
Information security from a system-wide perspective, beginning with a strategic planning process. Includes policies, procedures and functions necessary to organize and administer ongoing security functions in an organization. Topics include security practices, architecture and models, continuity planning and disaster recovery. Designed to incorporate the Committee for National Security Systems (CNSS) 4011 and 4012 standards. Formerly INFO 610. (4 units)

623. Entrepreneurial Information Management
Explores the use of current personal computing technology upon entrepreneurial organizations and management. Topics will include e-commerce, web-based business strategies, commerce security and privacy, and computer software used by entrepreneurs. Formerly INFO 623. Prerequisite: IST 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. Formerly INFO 645. Prerequisite: IST 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. Formerly INFO 646. Prerequisite: IST 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. Formerly INFO 647. Prerequisite: IST 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. Formerly INFO 648. Prerequisite: IST 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.) Formerly INFO 650. Prerequisites: IST 609 and SCM 607. (4 units)

670. Business Geographical Information Systems Strategies
Advanced studies in the use of geographical information systems (GIS) for developing solutions to business problems. Topics include the role of location on various organizational performance measures, how to analyze, interpret and display business related spatial data, and various methodological issues in deploying GIS in an organizational environment. Formerly INFO 670 Prerequisite: IST 609 or consent of instructor. (4 units)

675. Internship in Information Systems and Technology
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 675 courses may be applied toward graduation. Graded credit/no credit. Formerly INFO 675. Prerequisites: consent of instructor and department's internship coordinator. (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. Formerly INFO 680. Prerequisite: IST 609. (4 units)

695. Graduate Project
Independent graduate research in information systems and technology. Project will be under direction of a faculty member. Formerly INFO 695. Prerequisites: advancement to candidacy, written approval of student's graduate project committee and graduate director. (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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, Culminating Experience: Exam, Thesis, or Project. Formerly INFO 698. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

COURSE OFFERINGS IN
MANAGEMENT (MGMT)
Upper Division

515. 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 units)

526. Global Entrepreneurship
Entrepreneurial process in a global context as it relates to recognizing ideas, marshaling resources, developing networks and creating the strategy for a new cross-border venture. (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. New Venture 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)

544. New Venture Development
Introduction to the process of developing a new venture concept. Examines key issues in new venture creation, including the role of the entrepreneur in transitioning ideas to business opportunities. Special emphasis on developing a rapid opportunity analysis, identifying a sustainable business model, and business planning. (4 units)

545. New Venture 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. Prerequisites: MGMT 543 and 544. (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)
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. Business Law for Entrepreneurs
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)

623. Piloting the New Venture
Study of the exploration process for new venture concepts. Focus on examining the tools and processes involved in developing a new venture, including formulation of a sustainable business model, preparing a comprehensive feasibility analysis, and concept testing. (4 units)

625. New Venture Planning and Strategy
Study of the policies, strategies, and planning processes involved in entrepreneurship. Integrates important technical and innovative considerations with traditional managerial theories to establish a modern approach to the development of business plans, strategies and policies for new ventures. Prerequisites: MGMT 621 and 623. (4 units)

626. International New Venture Development
Entrepreneurial process in a global context examining the complexity of international entrepreneurship as it relates to recognizing ideas, marshaling resources, developing networks and creating the strategy for a new venture. (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, deliberate, discuss, and evaluate negotiation problems, strategies and tactics. (4 units)

650. Managing and Leading Global Business
Management and leadership of organizations in global environments. Emphasis on economic, political and sociocultural influences. Prerequisite: MGMT 302 or PSYC 302 or MGMT 601 or consent of instructor. (4 units)

655. Leadership for Modern Organizations
An overview of leadership emphasizing an understanding and analysis of the research on classical and contemporary theories in the field of organizational leadership. (4 units)

660. Managing Teams in the Workplace
Overview to understand the dynamics present and best practices to manage high performance work teams. Topics include methods for self awareness, interviewing, stress management, supportive communication, problem solving, influencing and motivating others, managing conflict, empowering, delegating, and team building. Formerly a topic under MGMT 690. (4 units)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (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)

695. Graduate Project
Independent graduate research for the management concentration or the concentration in entrepreneurship. Project will be under the direction of a faculty member. Prerequisites: advancement to candidacy, written approval of the student's graduate project committee and approval of the graduate (MBA) director. (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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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. Prerequisite: the upper-division writing requirement. (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)

550. Advanced Sports Marketing Planning and Strategy
An integrative approach to strategic sports marketing management providing theoretical and practical aspects of marketing management in the sports industry. Topics include 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. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 525 and the upper-division writing requirement, or consent of instructor. (4 units)

555. Advanced Entertainment Marketing Planning and Strategy
An integrative approach to strategic entertainment marketing management providing theoretical and practical aspects of marketing management in the entertainment industry. Topics include 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. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 525 and the upper-division writing requirement or consent of instructor. (4 units)

605. 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)

650. Logistics
Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Formerly MKTG 450. Prerequisite: MKTG 305. (4 units)

672. 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)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (2 or 4 units)

690. 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)

695. Independent Study
Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 695 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. (1-5 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
624. Marketing for Entrepreneurs
An in-depth study of entrepreneurial and small business marketing strategies and techniques. Examines how start-up small businesses develop and implement innovative marketing techniques. Provides alternative insights to the conventional approaches of large businesses. Prerequisite: MKTG 605. (4 units)

640. Advanced Marketing Research
Advanced study of current marketing research methods used to gather, analyze and transform data into information required for managerial decision-making. Includes qualitative and quantitative approaches to problem definition, research design, data collection and analysis, interpretation and presentation of research results. Requires use of statistical software. Three hours lecture and two hours activity laboratory. Prerequisite: MKTG 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. (4 units)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (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. Minimum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies. Prerequisite: advancement to candidacy. (4-8 units)

690. Advanced Topics in Marketing
Intensive study of an advanced topic in marketing. May be repeated for credit as topics change. (4 units)

696. Marketing Strategy
A strategy planning approach to marketing management from conceptual and applications perspectives. Focus is on the strategic decision-making process supported by self-analysis and external analysis. Legal, ethical and international aspects are also considered. Prerequisites: MKTG 605 and at least four additional units of 500- or 600-level coursework in marketing and consent of instructor. (4 units)

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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370. 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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. Prerequisite: the upper-division writing requirement. (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, the upper-division writing requirement, 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. Global Supply Chain Management and Logistics
Development, implementation and integration of global supply chain management and operations management strategy with business and other functional strategies of an organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. 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 IST 650. Students may not receive credit for both.) Formerly OM 650. Prerequisites: IST 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)

675. **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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department’s internship coordinator. (4 units)

695. **Graduate Project**
Independent graduate research in supply chain management, transportation and logistics. 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)

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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)
CHEMISTRY

Department of Chemistry and Biochemistry
Chemical Science Building, Room CS-204
(909) 537-5318  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-Division

545. Instrumental Analysis  (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 on- or off-campus setting. Final written report may be required. May be repeated for credit with department consent. A total of four units may be applied towards obtaining a bachelor's degree and a total of five units may be applied towards obtaining a master's degree. Graded credit/no credit. Prerequisites: course work appropriate to the specific internship and consent of department. (1-5 units)

Graduate/Postbaccalaureate

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)

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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. Graduate Project or Thesis
Independent graduate project or research conducted under guidance of the major advisor culminating in a written project or thesis in satisfaction of the extended project option of the degree requirements. 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 coursework in the master's program, and good academic standing. (0 units)
**CHILD DEVELOPMENT**

**Master of Arts in Child Development**

**Department of Psychology**

Social and Behavioral Sciences Building, Room 425
(909) 537-5570 psychology.csusb.edu

**FACULTY:**
Kelly Campbell, Sybil Carrere, David Chavez, John Clapper, Charles Hoffman (Emeritus), Laura Kampfner, James Kaufman, Hideya Koshino, Jason Reimer (Director), Robert Rico (Chair), Matt Riggs, Kenneth Shultz, Geraldine Stahly, Jodie Ullman, Sharon Ward, Amanda Wilcox-Herzog, Eugene Wong

The objective of the Master of Arts in Child Development is to provide a program of study with courses selected from a variety of basic areas in human development and psychology that pertain to the study of children. Utilizing an interdisciplinary and applied focus, students will take courses in infant, child, and adolescent development; families and parenting; cognitive and language development; applications of developmental theory; and research methods.

**MASTER OF ARTS IN CHILD DEVELOPMENT**

**Requirements (50-51 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 baccalaureate degree with a major in human development, child development, psychology; or with any other undergraduate major that satisfies the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
3. Completion of the graduate entrance writing requirement;
4. A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
5. 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;)
6. Satisfaction of the prerequisites:
   - PSYC 100. Introduction to Psychology or an equivalent course
   - HD 240. Introduction to Child Development or a course in child development.
   - PSYC 210. Psychological Statistics or a course in introductory statistics

**Advancement to Candidacy**

At the end of the spring quarter, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each quarter until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 16 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Satisfied the ethical requirements of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. This requirement can be fulfilled in one of three ways:
   A. Comprehensive Examination. Student will be required to become familiar with the literature in a research area which will be related to their comprehensive examination. 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. Project. 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 project.
   C. Thesis. Students will be required to become skilled in certain specialized research methods which will pertain to their abilities to gather data for a thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

**Requirements for Graduation**

1. A minimum of 50 quarter units of approved graduate-level work, with 38 completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of a comprehensive examination, project or thesis;
4. The graduation writing requirement is met upon successful completion of the culminating experience;
5. Any additional general requirements not cited above and listed on Page 368;
6. Classified graduate students in the Master of Arts program must complete their degree requirements within seven years of admission to that program;
7. Students in classified status who fail to register for at least one course in the M.A.C.D. 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)**

**Comprehensive Examination Option**

1. CD 612. Directed Readings (2-5) for a total of (5)
2. CD 614. Theories of Child Development (4)
3. CD 645. Advanced Infancy and Early Childhood Development (4)
4. CD 646. Advanced Middle Childhood and Adolescent Development (4)
5. CD 648. Social-Emotional Development (4)
6. CD 651. Advanced Cognitive Development (4)
7. CD 689. Externship in Child Development (2-5) for a total of (5)
8. CD 690. Families and Parenting (4)
9. CD 999. Comprehensive Examination: Child Development (0)
10. PSYC 640. Advanced Methods in Psychological Research (4)
11. Twelve units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.
### Project Option

1. **CD 611.** Advanced Independent Study (2-5) for a total of (5)
2. **CD 614.** Theories of Child Development Psychology (4)
3. **CD 645.** Advanced Infancy and Early Childhood Development (4)
4. **CD 646.** Advanced Middle Childhood and Adolescent Development (4)
5. **CD 648.** Social-Emotional Development (4)
6. **CD 651.** Advanced Cognitive Development (4)
7. **CD 690.** Families and Parenting (4)
8. **CD 695.** Graduate Project (5)
9. **PSYC 640.** Advanced Methods in Psychological Research (4)
10. Twelve units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

### Thesis Option

1. **CD 611.** Advanced Independent Study (2-5) for a total of (5)
2. **CD 614.** Theories of Child Development (4)
3. **CD 645.** Advanced Infancy and Early Childhood Development (4)
4. **CD 646.** Advanced Middle Childhood and Adolescent Development (4)
5. **CD 648.** Social-Emotional Development (4)
6. **CD 651.** Advanced Cognitive Development (4)
7. **CD 690.** Families and Parenting (4)
8. **CD 699.** Thesis (5)
9. **PSYC 640.** Advanced Methods in Psychological Research (4)
10. **PSYC 641.** Analysis of Variance (5)
11. **PSYC 642.** Regression/Nonparametric Statistics (4)
12. Four units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

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**Course Offerings in Child Development (CD)**

### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

**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 psychology department chair. Only 5 units are required for the master's degree. Formerly HD 611. Prerequisites: PSYC 640 and consent of psychology department. (2-5 units)

**612. Directed Readings**

Supervised readings of special topics under the direction of a faculty member. Formerly HD 612. Prerequisites: graduate standing and consent of psychology department. (2-5 units)

**614. Theories of Child Development**

Overview of major child development theories. Formerly HD 614. Prerequisites: classified standing in the M.A. in Child Development and 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. Formerly HD 645 and PSYC 645. Prerequisites: classified standing and consent of psychology department. (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). Formerly HD 646 and PSYC 646. Prerequisites: classified standing and consent of department. (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. Formerly HD 648 and PSYC 648. Prerequisites: classified graduate standing in M.A. in Child Development, Psychology M.A. or M.S. degree programs, and consent of psychology department. (4 units)

**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 HD 651 and PSYC 651. Prerequisites: classified graduate standing and consent of psychology department. (4 units)

**659. Early Childhood Assessment**

Review of major approaches to early childhood assessment practices. Formerly HD 659. Prerequisite: classified graduate standing or consent of psychology department. (4 units)

**689. Externship in Child Development**

Supervised field work, relating to child development, 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. Graded credit/no credit. Formerly HD 689. Prerequisites: PSYC 640 and consent of psychology department. (2-5 units)

**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. Formerly HD 690. 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. Formerly HD 695. Prerequisites: PSYC 611, 640, advancement to candidacy and consent of instructor. (5 units)

**699. Thesis**

Independent graduate research conducted under the guidance of the major advisor and resulting in a written thesis. Prerequisites: CD 640 or PSYC 641, advancement to candidacy, and consent of psychology 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. Formerly HD 999. Prerequisites: advancement to candidacy and consent of psychology department, completion of coursework in the M.A. in Child Development, and in 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 communication.csusb.edu

FACULTY: Ece Algan, Mo Bahk, Nathan Carter, Ruey Ling Chuang, Mary Fong, Donna Gotch, Jo Anna Grant, Brian Heisterkamp, RC. Rod Metts, Ahlam Muhtaseb, Bradford Owen, Mihaela Popescu (Graduate Coordinator), Astrid Sheil

MASTER OF ARTS IN COMMUNICATION STUDIES

Requirements (47-50 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

Applicants must fulfill all the general requirements for admission to graduate studies at this university. All students must meet the Graduate Entrance Writing Requirement. The department welcomes applications from international students and advises them that the Department of Communication Studies has its own requirements regarding the TOEFL (see D. below). To be admitted to the graduate program in Communication Studies:

1. The applicant must send to the Graduate Admissions Office (in addition to all other required materials):
   A. Three letters of recommendation attesting to academic aptitude and accomplishments;
   B. A one-page essay describing the role the applicant sees the M.A. in Communication Studies playing in accomplishing his or her life/career goals.

Note: If the applicant wishes to be considered for a Graduate Teaching Associateship, the applicant must submit 1) a curriculum vitae or resume and 2) a one-page statement of intent outlining qualifications along with the other application material.

2. The applicant must have completed the undergraduate work specified below:
   A. The equivalent of 24 quarter units of communication course work;
   B. In addition, applicants for the Integrated Marketing and Communication Track must:
      1. Include among their 24 quarter units of communication coursework the following:
         COMM 306. Communication Theory (4)
         COMM 341. Public Relations Theory and Principles (4)
      2. Complete the following undergraduate marketing courses:
         MKTG 305. Marketing Principles (4)
         MKTG 410. Consumer Behavior (4)
      3. Complete ONE of the following research methods courses:
         COMM 400. Communication Research Methodologies (4)
         MKTG 416. Marketing Research (4)

Note: COMM 400 may be included in the 24 units communication coursework, but MKTG 416 may not.

3. The applicant must have earned an undergraduate grade point average of 3.0 overall and/or 3.0 for the last 90 quarter units (60 semester units) of undergraduate work.

4. International students must have received a TOEFL score of 575 (computer-based score of 233 or internet-based score of 89) or higher.

Successful applicants are admitted to the program as conditionally classified graduate students. Advancement to classified status is conditional upon the completion of all prerequisites, as well as completion (after admission) of one of the following courses with a grade of "B-":

   COMM 600. Introduction to Graduate Study (4)
   COMM 605. Introduction to Graduate Studies in Integrated Marketing Communication (4)

Advancement to Candidacy

1. During the first quarter of enrollment, the student shall, with the consent of the faculty member chosen and the approval of the graduate coordinator, select an advisor.

2. Prior to completion of 16 units, the student and advisor shall form the student's graduate advisory committee. The committee shall consist of the advisor and two faculty members, one of whom may be from a related discipline. The committee shall function to: 1) approve the student's program of study; 2) compose and evaluate the student's comprehensive examination (if applicable); and 3) evaluate and approve the student's thesis or project (if applicable).

3. Upon establishing the committee, and prior to completion of 20 units, the student shall forward for the committee's approval a program of study listing course work to be taken and the capstone experience chosen to complete the degree.

4. Upon approval of the plan by the advisory committee, the program of study shall be sent to the graduate coordinator for departmental approval resulting in advancement to candidacy.

Requirements for Graduation

1. Students must complete an approved program of 47 to 50 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 (47-50 units)

Communication Studies Track (47 units)

Note: Students must receive a grade of "B-" or higher in all required courses.

1. COMM 600. Introduction to Graduate Study (4)
2. COMM 601. Intercultural Communication Theories (4)
4. COMM 603. Qualitative Research Methods in Communication (4)
5. COMM 685. Thesis or Project Proposal/Comprehensive Examination Preparation (2)

6. Electives (24-29 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 502. Communication Law and Policy (4)
   COMM 506. Media Sex and Violence (4)
   COMM 511. Feminist Contributions to Communication Studies (4)
   COMM 520. Integrated Marketing Communication (4)
   COMM 522. Mediation Theory and Practice (4)
   COMM 542. Issue Management and Crisis Communication (4)
   COMM 543. Environmental Communication (4)
   COMM 560. Health Communication (4)
   COMM 563. Advanced Topics in Public Argumentation and Rhetoric (4)
   COMM 564. Advanced Topics in Human Communication (4)
   COMM 565. Advanced Topics in Mass Communication (4)
   COMM 566. Advanced Topics in Intercultural Communication (4)
   COMM 567. Advanced Topics in Public Relations (4)
   COMM 580. Culture and Ethnicity in Language (4)
   COMM 581. Contemporary Theories of Rhetoric (4)
   COMM 593. Communication Approaches to Area Studies (4)
   COMM 609. Digital Culture (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 673. Advanced Mediation Skills (4)
   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)
   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.

7. Culminating Experience (0-5 units)
   Students will choose one of the following culminating experiences to complete their program.
   COMM 686. Graduate Project (5)
   COMM 699. Thesis (5)
   COMM 999. Comprehensive Examination (0)

   **Comprehensive Examination.** Students may, with the approval of their advisory committee and graduate coordinator, 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 prospectus must be approved by the advisory committee, and filed with the Graduate Coordinator. 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.

   **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 between the student and the advisor. The prospectus must be approved by the advisory committee, and filed with the Graduate Coordinator. The written component of the project must follow specific 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.

   **Integrated Marketing Communication Track (50 units)**

   **Prerequisites (20 units)**
   1. COMM 306. Communication Theory (4)
   2. COMM 341. Public Relations Theory and Principles (4)
   3. Four units chosen from:
      COM 400. Communication Research Methodologies (4)
      MKTG 416. Marketing Research (4)
   4. MKTG 305. Marketing Principles (4)
   5. MKTG 410. Consumer Behavior (4)

   **Degree Requirements (50 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)
   4. Four units chosen from:
      COM 602. Quantitative Research Methods in Communication Studies (4)
      COM 603. Qualitative Research Methods in Communication (4)
   5. MKTG 605. Marketing Management (4)
   6. MKTG 610. Consumer and Organizational Buying Behavior (4)
   7. MKTG 620. Advertising Management (4)
   8. COMM 685. Thesis or Project Proposal/Comprehensive Examination Preparation (2)
   9. 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. Audience Research and Analysis (4)
      COMM 520. Integrated Marketing Communication (4)
      COMM 522. Mediation Theory and Practice (4)
      COMM 542. Issue Management and Crisis Communication (4)
      COMM 543. Environmental Communication (4)
      COMM 560. Health Communication (4)
      COMM 567. Advanced Topics in Public Relations (4)
      COMM 602. Quantitative Research Methods in Communication Studies (4)
COMM 603. Qualitative Research Methods in Communication (4)
COMM 609. Digital Culture (4)
COMM 620. Communication in Multicultural Organizations (4)
COMM 673. Advanced Mediation Skills (4)
COMM 690. Seminar in Organizational Communication (4)
COMM 695. Graduate Independent Study (2-5)
COMM 697. Internship in Communication (2-5)
IST 609. Information Systems and Technology Management (4)
MKTG 446. Advertising Campaign (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 550. Advanced Sports Marketing Planning and Strategy (4)
MKTG 555. Advanced Entertainment Marketing Planning and Strategy (4)
MKTG 560. Services Marketing (4)
MKTG 590. Seminar in Marketing (4)
MKTG 640. Advanced Marketing Research (4)
MKTG 670. Global Marketing Strategies (4)
MKTG 690. Advanced Topics in Marketing (4)
MKTG 696. Marketing Strategy (4)

1. Postbaccalaureate standing.
2. Admission to the Program
   a. Business Administration and Master in Public Administration.
   b. May choose only one of the following two courses:
      - MGMT 642. Communication and Interpersonal Processes (4)
      - PA 557. Public Sector Labor Relations (4)

Certificate Requirements (24 units)
1. Postbaccalaureate standing.
2. Admission to the Program
   a. Business Administration and Master in Public Administration.
   b. May choose only one of the following two courses:
      - MGMT 642. Communication and Interpersonal Processes (4)
      - PA 557. Public Sector Labor Relations (4)

Core Courses
1. Seminar in Organizational Communication (4)
2. Seminar in Conflict and Conflict Resolution (4)
3. Negotiation and Bargaining (4)
4. Twelve units chosen from:
   - Intercultural Peacemaking (4)
   - Advanced Mediation Skills (4)
   - Communication and Interpersonal Processes (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 a topic under COMM 365. (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. Formerly a topic under COMM 520. (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 364. Prerequisite: COMM 422 or consent 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. Prerequisite: COMM 344 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)

550. Muslim Women in Media and Society
A cross-disciplinary and case study-based approach to the subject of Muslim women across several different regions and contexts, focusing particularly on their position in society and their representation in media. Formerly a topic under COMM 365 and 565. (4 units)
560. Health Communication
Advanced study of issues, contexts, and theories of health communication. Examines health issues in various communication contexts such as interpersonal, intercultural, organizational and mediated communication. Formerly a topic under COMM 364. Prerequisites: COMM 200 and 306 or consent of instructor. (4 units)

563. Advanced Topics in Public Argumentation and Rhetoric
Advanced special topics in public argumentation and rhetoric. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

564. Advanced Topics in Human Communication
Advanced special topics in human communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

565. Advanced Topics in Mass Communication
Advanced special topics in mass communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

566. Advanced Topics in Intercultural Communication
Advanced special topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

567. Advanced Topics in Public Relations
Advanced special topics in public relations. May be repeated for credit as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

580. Culture and Ethnicity in Language
Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. 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)

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 work completed on this campus; 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. (2-5 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. Qualitative Research Methods in Communication
Survey of study design, data collection and appropriate procedures for research through qualitative and interpretive approaches. Emphasis on research conducted in multicultural settings. Advanced study in such methods include ethnography, interviewing, discourse analysis, and rhetorical and cultural criticism. Prerequisite: COMM 600 or 605. (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)

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)

685. Thesis or Project Proposal/Comprehensive Examination Preparation
Preparation of the thesis or project proposal, or preparation for comprehensive examination. Graded credit/no credit. Prerequisites: completion of 24 units in the program, advancement to candidacy, and consent of graduate coordinator. (2 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 must be approved by the program coordinator in the quarter prior to enrollment in the course. Prerequisite: advancement to candidacy. (5 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. (2-5 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. (2-5 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. (2-5 units)

698. Continuous Enrollment for Graduate Candidacy Standing
Independent study leading to completion of requirements (other than coursework) 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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 subject matter. Prerequisites: COMM 685, advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)
COMPUTER SCIENCE

Master of Science in Computer Science
School of Computer Science and Engineering
Jack Brown Hall, Room 307
(909) 537-5326  cse.csusb.edu

FACULTY: Richard Botting, Arturo Concepcion, George Georgiou, Ernesto Gomez, Yasha Karant, Josephine Mendoza, Owen Murphy, Haiyan Qiao, Keith Schubert, David Turner, Kerstin Voigt (Director), Tong Yu, Kay Zemoudeh

Masters of Science in Computer Science (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:
         CSE 201. Computer Science I
         CSE 202. Computer Science II
         CSE 330. Data Structures
      2. Courses in calculus and discrete mathematics equivalent to:
         MATH 211. Basic Concepts of Calculus
         MATH 212. Calculus II
         MATH 213. Calculus III
         MATH 272. Discrete Mathematics
         MATH 372. Combinatorics
   3. Courses in computer science equivalent to:
      CSE 310. Digital Logic
      CSE 313. Machine Organization
      CSE 401. Contemporary Computer Architectures
      CSE 431. Algorithm Analysis
      CSE 455. Software Engineering
      CSE 460. Operating Systems
      CSE 500. Introduction to Formal Languages and Automata

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program with 500- and 600-level courses in computer science. No more than eight units may be earned from 500-level courses;
2. Advancement to candidacy and approval of the specific program of study;
3. A public presentation 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;
5. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and completion of all requirements for the degree;
6. A grade point average of at least 3.0 ("B") in all graduate courses work fulfilling the requirements of the Master of Science in Computer Science and grades of "C" (2.0) or better in all courses in the program;
7. For the thesis option, the student will submit the written thesis in bound form to the department. For the project option, the student will submit the written software engineering documentation in bound form to the department;
8. The graduation writing requirement is met upon successful completion of term papers in the graduate courses taken by the student and the writing of the thesis or software engineering documentation of the project;
9. Any additional general requirements not cited above and listed on page 368.

Department Graduate Committee and Major Advisor

The School of Computer Science and Engineering graduate committee consists of the graduate coordinators and two or more faculty members from the School of Computer Science and Engineering. 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 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.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Secured a major advisor from the School of Computer Science and Engineering for the preparation of the thesis or the implementation of a project;
3. Completed at least 12 quarter units and no more than 20 quarter units of work applicable to the degree program as a graduate student at this university with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate study prepared in consultation with and approved by the School of Computer Science and Engineering 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 CSE 689 for the exam option;
5. For students choosing the project option, satisfactory passage of the comprehensive oral examination to be administered by the graduate committee;
6. Obtained final approval of the program and of the candidacy itself by the School of Computer Science and Engineering graduate committee and the Dean of Graduate Studies.
The program of graduate study as well as any subsequent modification of the thesis or project are subject to the approval of the School of Computer Science and Engineering 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.

**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 CSE 689 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 CSE 689 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 CSE 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 CSE 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 CSE 689 after consultation with the graduate coordinator and completion of the last core course(s). CSE 689 is an independent study course in preparation of the comprehensive examination and may be repeated only once. Students enrolled in CSE 689 must take and pass a written examination on the material in the core courses.

**Degree Requirements (45 units)**

1. CSE 602. Computation and Complexity Theory (4)
2. CSE 610. Modern Computer Architecture (4)
3. CSE 630. Theory of Algorithms and Their Analysis (4)
4. CSE 655. Software Engineering Concepts (4)
5. CSE 660. Operating Systems Concepts and Theory (4)
6. Twenty-five units from one of the following options:
   A. Examination Option
      1. CSE 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. CSE 690. Master's Project (5)
      2. Twenty units of elective coursework chosen from 500- to 600-level computer science courses deemed appropriate by the department graduate committee. Up to eight units of 500-level computer science courses may be taken.
   C. Thesis Option
      1. CSE 689. 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 AND ENGINEERING (CSE)**

Effective Fall 2010, the designation for Computer Science and Engineering courses changes from CSCI to CSE.

### 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: CSE 331 or consent of instructor. (4 units)

#### 501. Introduction to Theory of Computation

Theoretical foundations of computer science: deterministic and non-deterministic Turing machines, models of computation; recursive functions, Church's thesis and undecidable problems; complexity classes P, NP, Co-NP and PSPACE. Formerly CSE 546. Prerequisite: CSE 500 or consent of instructor. (4 units)

#### 510. Advanced Computer Architecture

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 CSE 410. Three hours lecture and two hours laboratory. Prerequisite: CSE 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: CSE 330. (4 units)

#### 512. Introduction to Artificial Intelligence

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 CSE 411. Prerequisite: CSE 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. Prerequisite: CSE 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: CSE 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. Prerequisite: CSE 420. (4 units)

521. Field Programmable Gate Array Design
FPGA design rules, timing, latency, optimizations, ASIC conversion, state machines, implementing arithmetic, counters, memory, error detection and correction, simulation, and layout. Materials fee required. Three hours lecture and three hours laboratory. Prerequisite: CSE 401. (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: CSE 330 or consent of instructor. (4 units)

525. Parallel Algorithms and Programming
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: CSE 401. (4 units)

530. Data Communications and Networks
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. Formerly CSE 430. Prerequisites: CSE 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 CSE 594. Prerequisite: CSE 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: senior standing or consent of instructor. (4 units)

540. System Simulation
Theory and implementation of computerized modeling. Examples will include administrative, physical and biological systems. Prerequisite: CSE 330 or consent of instructor. (4 units)

541. Robotics and Control
Theory and practice of robotic modeling, control, programming, and construction. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: CSE 310 and 313. (4 units)

550. Advanced Bioinformatics I: Sequence Analysis
Pairwise and multiple sequence alignment of strings and relations to biology. Building phylogenetic trees from sequences. Predicting and analyzing RNA secondary structure. Three hours discussion and two hours activity. Prerequisites: CSE 431 and senior standing or consent of instructor. (4 units)

551. Advanced Bioinformatics II: Numerical Modeling
Numerical techniques for the modeling and simulation of biological and chemical systems using ordinary and partial differential equations, and stochastic variables. Three hours discussion and two hours activity. Prerequisite: CSE 535. (4 units)

555. Software Design and Architecture
Common patterns of architectural design, tradeoff analysis at the architectural level, domain-specific architectures, automatic support for architectural design, and formal methods of software architecture. Three hours lecture and two hours laboratory. Prerequisite: CSE 330. (4 units)

556. Introduction to Formal Methods, Models and Languages
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 CSE 656. Students may not receive credit for both.) Three hours lecture and two hours activity laboratory. Prerequisites: CSE 320 and 330. (4 units)

557. Computer Systems in Organizations
General system and information theory. Modeling organizations, activities, hardware, data, and software using current techniques with emphasis on human-computer interaction, systems engineering and project planning. Students will study parts of actual organizations. Formerly CSE 372. Prerequisites: CSE 330, MATH 262, or consent of instructor. (4 units)

565. Systems Programming
Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Prerequisite: CSE 460. (4 units)

570. Compilers
Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic scanners, and object code generation. Three hours lecture and two hours activity laboratory. Prerequisites: CSE 313, 320 and 330. (4 units)

572. Database Systems
Basic concepts of database design and theory, including underlying storage structures and alternative approaches to database models (relational, object-relational, network and hierarchical). Hands-on applications with one or more commercial database management systems. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSE 480. Prerequisite: CSE 330. (4 units)

575. Internship in Computer Science
Supervised work and study in private or public organizations. 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. (4 units)

580. Advanced Database Systems
Advanced study of components of general database 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: CSE 572. (4 units)

594. Topics in Computer Science
An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Prerequisite: CSE 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 CSE 595 may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. 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 file in advance of the quarter in which the course is to be taken. (1-4 units)

598. Foundations of Computer Architecture
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, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSE 202, MATH 272, and consent of instructor. (4 units)

599. Foundations of Software Systems
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 toward the B.S. in Computer Science, B.A. in Computer Systems, B.S. in Computer Engineering, or B.S. in Bioinformatics. Prerequisites: CSE 330 and consent of instructor. (4 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

602. Computation and Complexity Theory
Theoretical foundations of computer science: deterministic and non-deterministic Turing machines, 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 CSE 501, 546, 646. Formerly CSE 600. Prerequisite: CSE 500 or consent of instructor. (4 units)

603. Advanced Computation and Complexity Theory
Advanced topics in theoretical foundations of computer science: models of computation; recursive functions; Church's thesis and undecidable problems; complexity classes P, NP, CO-NP and PSPACE. Formerly CSE 601 and 646. Prerequisite: CSE 602 or consent of instructor. (4 units)

610. Modern Computer Architecture
Study of the elements and construction of advanced computer systems, including parallel systems, vector processors, network scheduling, pipelining, array processors, and systolic arrays. May not be taken for credit by students who have received credit for CSE 510. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSE 401 or consent of instructor. (4 units)

611. VLSI Circuit Design
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
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
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
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 CSE 525. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

630. Theory of Algorithms and Their Analysis
Algorithmic techniques, construction, time and space complexities, properties of taxonomic classes; survey of processing algorithms for graphs, trees, sets, and sequences; algebraic, numeric and geometric analysis techniques; dynamic programming, randomized algorithms, parallel algorithms; NP. Prerequisite: CSE 431 or consent of instructor. (4 units)

631. Advanced Data Communications
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 CSE 531. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSE 530 or consent of instructor. (4 units)

634. Neural Networks
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 linear 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: CSE 535 or equivalent. (4 units)

640. Artificial Intelligence
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)
655. Software Engineering Concepts
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 three hours laboratory. Materials fee required. Prerequisite: CSE 455, 555, or 556 or consent of instructor. (2-6 units)

656. Formal Methods, Models and Languages
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 CSE 556 and 656. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: classified status. (4 units)

660. Operating Systems Concepts and Theory
Operating system concepts and scheduling practices, including security, real time, multiprocessing, resource sharing, distributed file systems and peripherals access scheduling; distributed processing environments and parallel processing facilities. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSE 460 or consent of instructor. (4 units)

661. 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)

670. Advanced Compilers
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 CSE 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: CSE 602, 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 CSE 690 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (2-5 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. (2-4 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. Thesis
Independent graduate research conducted under the guidance of a major advisor; total of at least nine units for CSE 699 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (2-6 units)
COUNSELING AND GUIDANCE

Master of Science in Counseling and Guidance

College of Education, Room 243
(909) 537-5606 www.csusb.edu/coe/

FACULTY: Susan Brotherton, Camille Mayers, Donna Schnorr, Dwight Sweeney, John Winslade

MASTERS OF SCIENCE IN COUNSELING AND GUIDANCE

Requirements (72 units)

The M.S. in Counseling and Guidance is a professional program preparing students to become educational counselors. The degree program is designed to fulfill all the California State requirements for counseling in grades K-12, so that a graduate will concurrently receive the M.S. and the California Pupil Personnel Services Credential.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Achieved classified graduate standing;
2. Completed 20 quarter units of coursework with a grade point average of 3.0 ("B"), to include ECLG 619, 654 and 656;
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor and approved by the program coordinator.

Requirements for Graduation

1. A minimum of 72 quarter units of graduate-level work, with a minimum of 54 units completed in residency at this university;
2. A minimum of 25 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the degree requirements, including a minimum of a "B" in ECLG 531 and 657A, a grade of "Credit" in ECLG 657B, and no grade below a "C" (2.0) in all other courses in the program;
4. The graduation writing requirement is met either through demonstrated competence by comprehensive examination, or through completion of a Master's degree project;
5. Completion of a graduation requirement check;
6. Any additional requirements not cited above and listed on Page 368.

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 Dean of Graduate Studies to retake the examination. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

A Master's research project can be reported in the form of a paper, which could include 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 through the Graduate Studies Office. A Master's research project can be reported in the form of a paper, which could include 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 through the Graduate Studies Office. Students who elect to complete a project are not required to take a comprehensive exam or submit a portfolio.

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.

Degree Requirements (72 units)

1. ECLG 531. Introduction to Counseling (4)
2. EDUC 607. Introduction to Educational Research (4)
3. ECLG 619. Appraisal Procedures in Counseling (4)
4. ECLG 632. Advanced Psychological Foundations of Education (4)
5. ECLG 633. Human Development for Counseling (4)
6. ECLG 650. Applied Career Counseling (4)
7. ECLG 651. Professional School Counselor (4)
8. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
9. ECLG 655. Multicultural Counseling (4)
10. ECLG 656. Counseling Theories and Techniques (4)
11. ECLG 657A. Counseling Practicum (4)
12. ECLG 657B. Counseling Practicum (4)
13. ECLG 658. Consultation and Advocacy (4)
14. ECLG 678. Theory and Practice in Group Counseling (4)
15. ECLG 679. Counseling Field Experience: Educational Institution (4) for a total of (16)
16. Culminating Experience
   Students must choose one of the following
   ECLG 697. Master's Degree Project (0) by permission only
   ECLG 999. Comprehensive Examination (0)
COURSE OFFERINGS IN
EDUCATIONAL COUNSELING (ECLG)

Upper Division

531. Introduction to Counseling
Experience-based introduction to counseling and its techniques. This course cannot be counted among the 72 units required in the Master of Science in Counseling and Guidance. Must be taken concurrently with EDUC 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. (1-4 units)

Graduate/Postbaccalaureate

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. Human Development for Counseling
Recent developments in research and theory of human development, especially as they relate to counseling persons about problems of development. Focus is on cognitive, biological, and social development in the context of family and community development. 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. May not be taken for credit by students who have received credit for EREH 655. (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. I. 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. II. 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. Consultation and Advocacy
Theory and methods of consultation with parents, teachers, and other professionals and an examination of the role of advocacy in school counseling. 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. Prerequisites: 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. Must be repeated for a total of 16 units. (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)

697. Master's Degree Project
Research project related to counseling and guidance conducted under the direction of two program faculty members. Prerequisites: advancement to candidacy, EDUC 607, ECLG 657B, 679A, and permission of program coordinator. (0 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)
CRIMINAL JUSTICE

Master of Arts in Criminal Justice

Department of Criminal Justice
Social and Behavioral Sciences Building, Room 209
(909) 537-5506 criminaljustice.csusb.edu

FACULTY: Gisela Bichler, Frances Coles (Emeritus), John Conley (Emeritus), Christine Famega, Larry Gaines (Chair), Janine Kremling, Brian Levin, Deborah Parsons, Andrea Schoepfer, Pamela Schram (Graduate Coordinator), Dale Sechrest (Emeritus), Stephen Tibbetts

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 Graduate Admissions, CH-123, and have met university admissions requirements. Completed applications for admission must be received by the graduate coordinator by April 1. Applications will be evaluated on a competitive basis and enrollment is limited.

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:
1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in criminal justice, criminology, sociology, or in an allied field such as psychology, administration, or another social science, or recommendation for admission to the program by the Graduate Admissions Committee. Competence in the following prerequisite areas: criminological theory, law enforcement, institutional and community corrections, research methods and statistics is expected;
3. Completion of the graduate entrance writing requirement;
4. A minimum undergraduate grade point average of at least 3.0 overall and 3.0 ("B") in the major;
5. Submission of any available GRE or MAT (Miller Analogies Test) scores, in the event the applicant feels that such scores would enhance their chances of admission. Submission of such scores is not mandatory;
6. Submission to the criminal justice program of three letters of recommendation from individuals who are familiar with the student's academic work and potential to complete the program successfully. Letters must come directly from the writer or be included in a placement file, and will be evaluated by criminal justice faculty members.

Advancement to Candidacy

To be advanced to candidacy, a student must have:
1. Achieved classified standing;
2. Traditional Thesis M.A. Option:
   - Completed all required course work except thesis,
   - 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;
5. 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

1. A minimum of 45 units of acceptable graduate level work, with at least 32 quarter units completed in residence at this university;
2. Completion of course work and an acceptable thesis and final oral defense,
   or Completion of course work and registration in and completion of the comprehensive examination with a grade of credit (Plan II below);
3. Any additional general requirements not cited above and listed on Page 368.

Degree Requirements (45 units)

Plan I (Traditional Thesis Option)

1. CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice (4)
2. CJUS 605. Proseminar in Criminal Justice (4)
3. CJUS 606. Statistical Analysis in Criminal Justice (4)
4. CJUS 607. Applying Criminological Theory to Criminal Justice (4)
5. Four units chosen from:
   - CJUS 631. Seminar in Corrections (4)
   - CJUS 632. Seminar in Policing (4)
6. CJUS 686. Graduate Review in Criminal Justice (1)
7. Sixteen 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 585. Criminality Across the Life Course (4)
   - CJUS 590. Topics in Criminal Justice (2 or 4)
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)

7. Internship in Criminal Justice
Supervised work and study in private or public organizations. Open only to criminal justice seniors. May be repeated for credit for a total of eight units; only four may be used in the major. If student completes more than one internship, the other internship must be completed in another agency. Graded credit/no credit. Prerequisites: completion of four of six upper division criminal justice requirements, 2.5 grade point average in criminal justice and consent of instructor. (4 units)

580. Juvenile Justice System
History, development and theory of the juvenile justice system. Formerly CJUS 353 and 380. (4 units)

585. Criminality Across the Life Course
Examination of factors influencing criminality across the life span from prenatal to elderly stages of life; emphasis on physiological, developmental, social and environmental factors. Formerly a topic under CJUS 590. (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. (1-4 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. (1-4 units)

596. Peer Advising in Criminal Justice
Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. A total of eight units may be applied toward graduation; four units may be applied as an upper-division elective in the major. Graded credit/no credit. Prerequisites: grade point average of 3.0, consent of instructor, and department approval. (2 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, but it is a prerequisite for graduate students who do not have a bachelor's degree in Criminal Justice. Limited to senior and graduate students. Prerequisites: CJUS 311 and 320. (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)

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. (1-4 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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)
EARTH AND ENVIRONMENTAL SCIENCES

Master of Science in Earth and Environmental Sciences

with concentrations in:
- Professional Science Masters
- Geology

Department of Chemistry and Biochemistry
Chemical Sciences Building, Room CS-204
(909) 537-5318 chem.csusb.edu

Department of Geological Sciences
Biological Sciences Building, Room 113A
(909) 537-5336 geology.csusb.edu

MASTER OF SCIENCE IN EARTH AND ENVIRONMENTAL SCIENCES

Requirements (45-49 units)

The Master of Science in Earth and 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 has two options, PSM and Geology. The Professional Science Masters (PSM) 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. The Geology Option focuses directly on geological study and research. This option is intended for students who wish to pursue graduate level work as a prelude for doctoral studies, or as professional preparation for careers in geological fields.

The culminating experience in the M.S. in Earth and Environmental Sciences is an extended project or a research thesis. At the end of the research 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;
2. 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);
3. 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 3.0 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 earth and environmental sciences graduate committee;
8. Submission to the earth and environmental sciences graduate committee of a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate program, option (PSM or Geology) applied for, 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 interest 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 quarter 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;
2. Been accepted by a major advisor from the earth and environmental sciences graduate program;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the earth and 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

1. A minimum of 45 quarter units of acceptable graduate level work included in the formal program, with no less than 32 units completed in residence at this University and with at least 32 units gained from 500- and 600-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the program and grades of "C" (2.0) or better in each course in the program;
4. Completion and presentation of an extended project or thesis;
5. The graduation writing requirement is met upon successful completion of the project or thesis;
6. Any additional general requirements not cited above and listed on Page 368.

Department Graduate Committee and Major Advisor

The Earth and 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 earth and 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 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 research and, where appropriate, supervise the internship. The program of courses and the project/research topic, as well as any subsequent modification of these, are subject to approval by the earth and 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 earth and environmental sciences graduate committee for approval, otherwise the course may not be accepted as part of the program. Extension courses at the 1000- 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 earth and environmental sciences graduate committee and will be granted only for serious and compelling reasons.

Degree Requirements (45-49 units)

Professional Science Masters (PSM) Option (49 units)

Core Courses (41 units)

1. CHEM 610. Advanced Environmental Chemistry (5)
2. GEOG 470. Hydrology and Water Resources (4)
3. GEOL 610. Environmental Geosciences (5)
4. Two units chosen from:
   - CHEM 690. Graduate Seminar in Environmental Sciences (2)
   - GEOL 690. Graduate Seminar in Environmental Sciences (2)
5. HSCI 612. Public Health Statistics (4)
7. Four units chosen from:
   - ECON 360. Economics of the Environment (4)
   - IST 309. Information Systems and Technology (4)
   - IST 474. Advanced Database Management and Information Assurance (4)
8. A minimum of nine units, including one internship and one graduate study, chosen from:
   - CHEM 575. Internship in Chemistry (4-5)
   - CHEM 695. Supervised Graduate Study in Chemistry (4-5)
   - GEOL 575. Internship in Geology (4-5)
   - GEOL 695. Supervised Graduate Study in Geology (4-5)
9. Choose one of the following courses:
   - CHEM 696. Graduate Project (4)
   - CHEM 699. Graduate Thesis (4)
   - GEOL 696. Graduate Project (4)
   - GEOL 699. Graduate Thesis (4)

Elective Courses (8 units)

1. A minimum of 8 units; at least one course must be graduate level.

Undergraduate Electives:

(Some of these elective courses have prerequisites that must be satisfied before the course can be taken)

- BIOL 320. Microorganisms (6)
- BIOL 349. Biology of Ecosystems (5)
- BIOL 450. Ecology (5)
- BIOL 455. Marine Biology and Ecology (5)
- CHEM 345. Modern Quantitative Analysis (5)
- GEOG 308. Advanced Geographic Information Systems (5)
- GEOG 350. Conservation and Natural Resources (4)
- GEOG 402. Geographic Information Systems Applications (5)
- GEOL 375. Groundwater Hydrology (4)
- GEOL 376. Field Methods in Hydrology (4)
- GEOL 430. Engineering Geology (5)
- HSCI 380. Toxicology (4)
- HSCI 478. Environmental Health Management (4)
- MGMT 335. Business and Society (4)
- PA 315. Government-Business Relations (4)

Graduate Electives:

CHEM 501. Advanced Laboratory Techniques (1-2)
CHEM 545. Instrumental Analysis (6)
CHEM 691. Graduate Independent Study (2-4)
CHEM 697. Advanced Internship (4)
ECON 545. Economics of Water Resources (4)
GEOG 650. Environmental Issues of Land Management (4)
GEOL 510. Scientific Issues in Surface and Groundwater Management (4)
GEOL 550. Earth Resources (5)
GEOL 551. Neotectonics and Seismic Hazard Analysis (5)
GEOL 620. Digital Mapping and GIS for Scientists (4)
GEOL 621. Graduate Geologic Mapping (4)
GEOL 630. Environmental Geochemistry (4)
GEOL 635. Low-temperature Geochemistry (4)
GEOL 691. Graduate Independent Study (2-4)
GEOL 697. Advanced Internship (4)
HSCI 557. Hazardous Materials Control (4)
HSCI 558. Management of Water Quality (4)
HSCI 651. Air Quality Management (4)
IST 609. Information Systems and Technology Management (4)
PA 621. Water Resource Agency Management (4)
PA 622. Politics and Public Relations in Water Resource Management (4)
PA 672. Administrative Regulation (4)

Geology Option (45-46 units minimum)

Core Courses (25-26 units)

1. CHEM 610. Advanced Environmental Chemistry (5)
2. GEOG 610. Environmental Geosciences (5)
3. GEOL 621. Graduate Geologic Mapping (4)
4. GEOL 690. Graduate Seminar in Geological Sciences (2)
5. GEOL 695. Supervised Graduate Study in Geology (4-5)
6. GEOL 696. Graduate Project (4)

Electives (20 units)

1. A minimum of 20 units, at least 15 of which are graduate level courses.

Undergraduate Electives:

(Some of these elective courses have prerequisites that must be satisfied before the course can be taken)

CHEM 345. Modern Quantitative Analysis (5)
GEOG 402. Geographic Information Systems Applications (5)
GEOL 375. Groundwater Hydrology (4)
GEOL 376. Field Methods in Hydrology (4)
GEOL 430. Engineering Geology (5)

Graduate Electives:

CHEM 501. Advanced Laboratory Techniques (1-2)
CHEM 545. Instrumental Analysis (6)
GEOL 540. Advanced Topics in Geology (4)
GEOL 545. Laboratory for Advanced Topics in Geology (1-2)
GEOL 550. Earth Resources (5)
GEOL 551. Neotectonics and Seismic Hazard Analysis (5)
GEOL 552. Volcanology and Volcanic Hazard Assessment (5)
GEOL 553. Advanced Structural Geology (5)
GEOL 575. Internship in Geology (4-5)
GEOL 595. Supervised Independent Study (2-6)
GEOL 620. Digital Mapping and GIS for Scientists (4)
GEOL 630. Environmental Geochemistry (4)
GEOL 635. Low-temperature Geochemistry (4)
GEOL 691. Graduate Independent Study (2-4)
GEOL 696. Graduate Research in Geology (1-6)
The following courses are offered in support of various graduate degree programs offered at this university.

**ECONOMICS (ECON)**

### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

**600. Proseminar in Economics**
Survey of the concepts and ideas that economists study, with emphasis on globalization. (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. (2-4 units)
EDUCATION

College of Education
College of Education Building, Room 182
(909) 537-5600  www.csusb.edu/coe/

Master of Arts in Education
with options in:
Bilingual/Cross-Cultural
Career and Technical Education
Correctional and Alternative Education
Curriculum and Instruction
Environmental Education
Holistic and Integrative Education
Instructional Technology
Kinesiology
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 478.)
Rehabilitation Counseling
(Degree requirements can be found on Page 533.)

Master of Science
Counseling and Guidance
(Degree requirements can be found on Page 414.)
Science, Technology, Engineering and Mathematics Education
(Degree requirements can be found on Page 536.)

Doctor of Education
Educational Leadership
(Degree requirements can be found on Page 482.)

Basic Teaching Credentials
Preliminary Level I Education Specialist Credential:
Mild/Moderate Disabilities with EL Authorization
Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
Preliminary Level I Education Specialist Credential:
Moderate/Severe Disabilities with EL Authorization
Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
Preliminary Level I Education Specialist Credential: Early Childhood Special Education with EL Authorization
Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization
Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization

Minor
Education (Requirements can be found on Page 164.)

Certificate
Education (Requirements can be found on Page 165.)

Specialist and Services Credentials
Administrative Services Preliminary
Administrative Services Preliminary (Internship)
Administrative Services Professional
Professional Clear Level II Education Specialist Credential:
Early Childhood Special Education with EL Authorization
Professional Clear Level II Education Specialist Credential:
Mild/Moderate Disabilities with EL Authorization
Professional Clear Level II Education Specialist Credential:
Moderate/Severe Disabilities with EL Authorization
Pupil Personnel Services: School Counseling
Pupil Personnel Services: School Psychology
Reading/Language Arts Specialist
School Nurse
Supervision and Coordination of Designated Subjects Programs

Certificate Programs
Crosscultural, Language and Academic Development (CLAD)
E-Learning
Early Childhood Special Education
Education of the Gifted and Talented
Educational Technology
Environmental Education
Holistic and Integrative 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 (Multiple Subjects, Single Subject, and Designated Subjects) can be found beginning on Page 165.

Division of Teacher Education
Credentialed Office
College of Education Building, Room 102, (909) 537-5609
www.csusb.edu/coe/offices/student_services/credential_processing/index.htm

Masters Program Office and Advanced Credentials
College of Education Building, Room 102, (909) 537-5293
www.csusb.edu/coe/offices/student_services/grad_advanced_cred_prog/index.htm

Multiple Subject and Single Subject
College of Education Building, Room 102, (909) 537-5650
www.csusb.edu/coe/offices/student_services/teacher_ed_office/index.htm

Special Education
College of Education Building, Room 102, (909) 537-7406
www.csusb.edu/coe/programs/special_ed/index.htm

Supervision Office
College of Education Building, Room 102, (909) 537-5698
www.csusb.edu/coe/offices/student_services/field_supervision/index.htm

Program Admissions
College of Education Building, Room 102, (909) 537-5609
www.csusb.edu/coe/offices/student_services/program_admissions/index.htm
The M.A. in education with an option 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 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 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 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 individuals with disabilities, 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 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;
2. A grade point average of at least 2.5 in the last 90 quarter units and a 3.0 ("B") in all bilingual/crosscultural courses;
3. Demonstrated proficiency in Spanish;
4. Completed the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.
Advancement to Candidacy
In order to be formally advanced to candidacy, a student must have:
1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;
Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation
1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of EDUC 600. Master's Degree Project, which also satisfies the graduation writing requirement;
5. A minimum of 26 units in courses numbered 600 or above included as part of the approved program;
6. Any additional general requirements not cited above and listed on Page 368.

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 projects which also satisfy the graduation writing requirement;

Students I (4)
EDCL 664. Thesis/Project Design in Curriculum and Instruction (2)
EESL 670. Principles and Practice in TESOL (4)
HIST 565. Immigration and Ethnic American History (4)
Other courses selected in consultation with program advisor.

11. 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: ECTS 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
1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this university;
2. A minimum of 22 units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Registration and successful completion of a master's degree project (EDUC 600) or comprehensive examination (ECTS 999);
5. 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 368.

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. ECTS 519. Computer Applications for Career and Technical Educators (4)
5. ECTS 637. Foundations of Career and Technical Studies (4)
6. ECTS 638. Critical Issues for the Career and Technical Educator (4)
7. ECTS 639. Professional Competencies in Career and Technical Studies (4)
8. ECTS 640. Topics in Education (2)
9. Successful completion of Track A or Track B:
   - Track A: EDUC 600. Master's Degree Project (4)
   - Track B: ECTS 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)
2. Remaining units of electives approved by the candidate's advisor.

### Educational Computing
1. ETEC 546. Computer Based Technology in Education II (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Computing.

### Educational Technology
1. ETEC 544. 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. Introduction to Special Education (4)
2. Remaining units of electives approved by the candidate's advisor.

### Supervision and Coordination
1. ECTS 508. Organization and Structure of Designated Subjects Programs (4)
2. ECTS 509. Personnel Management in Designated Subjects Programs (4)
3. ECTS 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
4. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Supervision and Coordination of Designated Subjects Program credential.

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**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;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

**Note:** Between the time of completing 15 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;
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 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;
2. A minimum of 23 units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. 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
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 13 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 368.

**Degree Requirements (48 units)**

**Education 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)

**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)**
1. Twelve units in the student's area of specialization, chosen in consultation with advisor.

**Culminating Experience (8 units)**

Student must take one of the following two tracks:

**Track A. Master's Thesis/Project option**
1. EDUC 600. Master's Degree Project (4)
2. Four units of electives 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)

**Track B: Comprehensive Examination Option**
1. EDCA 999. Comprehensive Examination (0)
2. Eight units of electives chosen from the list above.

**M.A. IN EDUCATION**

**CULMINATING EXPERIENCE OPTION**

**Requirements (46 units)** (see Addendum for program changes)

**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 baccalaureate degree from an accredited college or university with a minimum undergraduate grade point average of at least 3.0 overall and 3.0 in the major;
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;
5. A typewritten statement of purpose of no more than 150 words including the applicant's personal goals for the graduate education 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;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 603 and 605;
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.

**Requirements for Graduation**

1. A minimum of 46 quarter units of acceptable graduate-level work, with a minimum of 33 completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. 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 quarters. 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 Gifted and Talented Education Emphasis must complete EDCI 663 and 999, and will not enroll in any elective courses;
5. The graduation writing requirement is met upon successful completion of the Comprehensive Examination;
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 368.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit...
course work from an institution which will not accept that work in its own advanced degree program.

**Degree Requirements (46 units)**

Core courses (12 units)
1. EDUC 603. Effective Communication in Education (4)
2. EDUC 609. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)

Curriculum and Instruction 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 units)
1. Students must choose one of the following areas:
   1. Elementary/Secondary: Eight units chosen from:
      - EDCI 540. Differentiated Curriculum and Instruction (4)
      - EDCI 634. Advanced Social Studies Methods (4)
      - EDCI 645. Instructional Strategies for Language Development (4)
      - ESTM 624. STEM Education: Curriculum and Pedagogy in Elementary Mathematics (4)
   2. Secondary: Eight units of upper-division or graduate-level electives, outside the College of Education, normally in the candidate's teaching area(s), selected with the approval of an advisor.

Electives (12 units)
1. Students may select from the following list or consult with their advisor for additional elective possibilities. (Courses previously taken to complete a Bachelor's degree may not be selected.)
   - EADM 619. Policy, Governance and Legal Aspects of Education (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)
   - ESEC 413. Language Interaction in the Classroom (4)
   - ESEC 419. Literacy Across the Curriculum (4)
   - ESEC 506. Curriculum and Instruction in the Content Areas (4)

2. Culminating Experience (2 units)
   1. EDCI 663. Comprehensive Evaluation in Curriculum and Instruction (2)
   2. EDCI 664. Comprehensive Evaluation in Curriculum and Instruction (2)

   3. 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;

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;
2. Completed with a grade point average of 3.0 (“B”), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education.

**Requirements for Graduation**

1. A minimum of 48 quarter units of acceptable work, with 34 completed in residence at this university;
2. A minimum of 25 quarter units taken after a student has been advanced to candidacy for the degree;
3. 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;
4. Culminating Experience. Student must, with the advice and approval of their advisor, choose one of the three culminating experiences in program of study.

**Track A: Master's Project (8 units)**
- EENV 664. Research in Environmental Education (4)
- EENV 698. Thesis (4)

**Track B: Master's Thesis (8 units)**
- EENV 664. Research in Environmental Education (4)
- EENV 699. Thesis (4)

**Track C: Comprehensive Examination (8 units)**
- EENV 651. Historical and Contemporary Readings in Environmental Education (4)
- EENV 664. Research in Environmental Education (4)
- EENV 699. Comprehensive Examination (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 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. The student's project/thesis committee is usually chaired by the student's advisor and includes at least one other member, preferably who has specialized expertise related to the project/thesis, and is chosen by the student after consultation with the committee chair.

The purpose of the comprehensive examination is to test the student's knowledge of the field of environmental education. The student may enroll not earlier in EENV 699 than the last quarter in which course work for the program is taken. Students who do
not obtain a passing score may take the exam a second time within two quarters, with approval from the program coordinator. Students who have registered for EENV 999 must retain classified standing in the master's program by enrolling in subsequent quarters in EDUC 698 until exam is retaken. Approval to retake the exam may be contingent upon completion of additional designated courses. The Comprehensive Examination Track, after taking the exam, may not be modified to the Thesis or Project Track.

5. The graduation writing requirement is met upon successful completion of 4A, 4B or 4C above.

Students who are advanced to candidacy in the program and who fail to register for at least one course in the program each quarter will 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 during the first year of the program.

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 (18 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 650. Selected Topics in Environmental Education (4)
5. EENV 679. Fieldwork: Environmental Education (2)

Electives (8 units)

1. Eight 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)
     - EENV 644. Seminar in Environmental Education (4)
     - EENV 651. Historical and Contemporary Readings in Environmental Education (4) (For Track C this is required, not an elective)
     - EENV 652. Nature Study in Environmental Education (4)
     - EENV 654. Fundraising Fundamentals in Environmental Education (4)
     - EENV 656. Water Education in Environmental Education (4)
     - EENV 679. Fieldwork: Environmental Education (2 or 4)
   - Group B
     - ANTH 375. Museum Methods (4)
     - ASTR 311. A Cosmic Perspective of Earth (4)
     - BIOL 380. Medical and Economic Botany (4)
     - COMM 304. Intercultural Communication (4)
     - EDCI 636. Advanced Science Methods (4)
     - GEOG 350. Conservation and Natural Resources (4)
     - GEOG 360. Weather and Climate (4)
     - GEOG 470. Hydrology and Water Resources (4)
     - GEOI 309. Earth: The Blue Planet (4)
     - GEOI 311. The Dynamic Earth (4)
     - HIST 630. California Water History (4)
     - HSCI 352. Principles of Environmental Health (4)
     - NSCI 320. Energy (4)
     - PA 514. Management of Private Nonprofit Organizations (4)

Other courses upon consent of advisor.

**Culminating Experience (8 units)**

Students must take one of the following three tracks:

- **Track A: Master's Project (8 units)**
  - EENV 664. Research in Environmental Education (4)
  - EENV 697. Master's Degree Project (4)

- **Track B: Master's Thesis (8 units)**
  - EENV 664. Research in Environmental Education (4)
  - EENV 699. Master's Degree Thesis (4)

- **Track C: Comprehensive Examination (8 units)**
  - EENV 651. Historical and Contemporary Readings in Environmental Education (4)
  - EENV 664. Research in Environmental Education (4)
  - EENV 999. Comprehensive Examination (0)

**M.A. in Education**

(HOLISTIC AND INTEGRATIVE EDUCATION OPTION)

**Requirements (48 units)**

This is an innovative program for creative educators interested in entering a dialog with a cohort of master's students and a team of professors to explore ways to develop and implement innovative and meaningful curriculum. The major objective 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 has been recognized nationally for its transformative approach to the education process.

**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. Official admission to the university;
2. Application for admission to the College of Education for the M.A. in Education, 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;
2. 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;
3. 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 or comprehensive examination.
4. Any additional general requirements not cited above and listed on Page 368.

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 proposal project 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 one of the categories 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;
3. 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;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 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

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 completed in residence at this university;
2. A minimum of 28 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of a master's degree project or comprehensive examination. 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.

The written comprehensive examination is designed to test the student's knowledge in the field of instructional technology. Before taking the comprehensive examination, students need to present their e-portfolio and successfully complete a presentation in ETEC 692, a required course in the program. Students may not take the examination more than twice;

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 368.

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. 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. ETEC 692. Practicum in Educational Technology (4)
8. One of the following (4 units):

Research
ETEC 643. Technology and Learning II (4)

Design/Development
ETEC 644. Design and Development of Instructional Materials II (4)
9. Electives
Twelve units chosen from:
ETEC 501. Foundations of e-Learning (4)
ETEC 541. E-Learning Design and Development (4)
ETEC 546. Computer Based Technology in Education II (4)
ETEC 617. Instructional Development and Change Process (4)
ETEC 623. Technology for Educational Leaders (4)
ETEC 624. Website Design and Development (4)
ETEC 625. Interactive Animation Design and Development (4)
ETEC 634. Information Systems in Education (4)
ETEC 648. E-Learning Delivery and Assessment (4)
ETEC 674. E-Learning Technology and Methods (4)
ETEC 676. Advanced Topics in Instructional Technology (2-8)

Students may take up to eight units from other programs, departments, colleges or universities with an approval of an ETEC advisor and ETEC program coordinator.

10. Culminating Experience (4 units)
Students must complete one of the following options:
  Master's Project
  1. ETEC 699. Master's Degree Project (4)
  Comprehensive Examination
  1. ETEC 999. Comprehensive Examination (0)
  2. Four units of ETEC courses.

M.A. IN EDUCATION (KINESIOLOGY OPTION) Requirements (46 units)
The M.A. in Education with an option in Kinesiology is designed for people with an undergraduate degree in kinesiology with a specialization in pedagogy or a closely related field, such as physical education, who have professional teaching experience in a public school or associated community agency setting. Includes preparing professionals in effective teaching behaviors, curriculum theory, and leadership skills necessary to lead school districts and community agencies in the development, implementation and evaluation of model pedagogical kinesiology programs for children, teens and young adults as well as the coordination of health-related physical education programs in public school settings and advocacy for a life-long physical activity across the life-span.

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;
4. 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 quarter.

Requirements for Graduation
1. A minimum of 46 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
2. At least 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Six specified courses in education 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 506P. Curriculum and Instruction Area: Physical Education (4)
5. KINE 600. Graduate Seminar (2)
6. KINE 623. Sport and Social Issues (4)
7. KINE 624. Sport Psychology (4)
8. KINE 630. Physical Education for Special Populations (4)
9. KINE 670. Leadership in Physical Education (4)
10. KINE 681. Exercise and Sport Science (4)
11. KINE 685. Analysis of Human Movement (4)
12. Culminating Experience
   EDUC 600. Master's Degree Project (4)

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:
Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), 12 quarter units of course work at least eight of which must have been on this campus and approved by an advisor in the College of Education;
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable work, with 35 completed in residence at this university;
2. A minimum of 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of A or B below:
   A. ERDG 999. Comprehensive Examination (0),
   ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
   B. EDUC 600. Master's Degree Project (4);
5. The graduation writing requirement is met upon successful completion of ERDG 631;
6. Any additional general requirements not cited above and listed on Page 368.

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)

Requirements (48 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)

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;
2. 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;
2. 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.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate level work, with at least 34 completed in residence at this university, and 34 of the 48 units be taken at the 500- to 600-level;
2. 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;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of A or B below:
   A. Masters Degree Project/Thesis Option
      EDSC 699. Masters Thesis/Project in Science Education
   B. Comprehensive Examination
      EDSC 999. Comprehensive Examination and an additional four units of science
5. Successful completion of the thesis/project to meet the university graduation writing requirement;
6. The remaining 12 units 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 (48 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 (20 units)
1. EDSC 623. The Science Curriculum (4)
2. EDSC 634. Research in Science Education (4)
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)
Students must complete one of the following options

Thesis/Project Option
1. EDSC 699. Master's Degree Thesis/Project in Science Education (4)

Comprehensive Examination Option
1. EDSC 999. Comprehensive Examination (0)
2. Four additional units of science courses approved by the student's program advisor.

Electives (12 units)

NOTE: Student must have the appropriate prerequisites for the course.
ASTR 311. A Cosmic Perspective of Earth (5)
BIOL 301. Biology in the Classroom (4)
BIOL 305. Biology of Dinosauria (4)
GEOG 350. Conservation and Natural Resources (4)
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)

M.A. IN EDUCATION
(SPECIAL EDUCATION OPTION)

Requirements (48 units) (see Addendum for program changes)

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;
2. Application for admission to the College of Education for the M.A. in Education, Special Education Option;
3. Submission of an application for a Certificate of Clearance or evidence of a credential or permit issued by the California Commission on Teacher Credentialing (CCTC);
4. Completion of prerequisite courses ESPE 530 and 531 with grades of "B" or better;
5. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program;
6. Completion of the graduate entrance writing requirement by one of the following:
   a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;
   b. Satisfactory completion of the Writing Requirement Examination (WREE) offered at this university;
7. 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.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In addition to the above program admission requirements, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:
1. Achieved full admission to the M.A. in Education, Special Education Option (Early Childhood, Mild/Moderate or Moderate/Severe);
2. 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 611. Assessment Methods in Special Education
      ESPE 672. Methods in Early Childhood Special Education I
      ESPE 673. Methods in Early Childhood Special Education II
   B. Mild/Moderate
      ESPE 611. Assessment Methods in Special Education
      ESPE 612. Supportive Learning Environments for Students with Disabilities
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. ESPE 611. Assessment Methods in Special Education (4)
5. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
6. ESPE 635. Effective Communication with Professionals and Families (4)
7. One of the following core tracks
   Early Childhood
   1. ESPE 672. Methods in Early Childhood Special Education I (4)
   2. ESPE 662. Methods for Students with Moderate/Severe Disabilities I (4)
   3. ESPE 653. Seminar on Moderate/Severe Disabilities (4)
   4. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
   5. ESPE 673. Methods in Early Childhood Special Education II (4)
   Mild/Moderate
   1. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
   2. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (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 657. Seminar on Mild/Moderate Disabilities (4)
   Moderate/Severe
   1. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
   2. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
   3. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
   4. ESPE 653. Seminar on Moderate/Severe Disabilities (4)
   5. ESPE 662. Methods for Students with Moderate/Severe Disabilities I (4)
8. Culminating Experience

Students must choose 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)
2. 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 Department of Special Education
   ESPE 672. Methods in Early Childhood Special Education I (4)
   Note: not an elective for ECSE.
   ESPE 673. Methods in Early Childhood Special Education II (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)
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 regarding an approved format for the project proposal and project. Further information is available from the College of Education regarding an approved format. Further information is available from the College of Education regarding an approved format. Further information is available from the College of Education regarding an approved format. Further information is available from the College of Education regarding an approved format. Further information is available from the College of Education regarding an approved format. Further information is available from the College of Education regarding an approved format.

M.A. IN EDUCATION
(Teaching English to Speakers of Other Languages [TESOL] OPTION)

Requirements (48 units) (see Addendum for program changes)

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");
2. Completion of the graduate entrance writing requirement;
3. SECURED APPROVAL OF CANDIDACY FROM THE COLLEGE OF EDUCATION;
4. A maximum of 14 quarter units or equivalent semester units may be transferred from other colleges and universities.

Advancement to Candidacy
In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. 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;
4. FILED AN APPROVED GRADUATE PROGRAM FOR COMPLETION OF THE DEGREE. THIS MUST BE PREPARED IN CONSULTATION WITH AN ADVISOR AND APPROVED BY THE DEAN OF THE COLLEGE OF EDUCATION;
5. NATIVE SPEAKERS OF ENGLISH MUST HAVE TWO SEMESTERS OR THREE QUARTERS OF STUDY IN ONE OR MORE FOREIGN LANGUAGES AT THE POST SECONDARY LEVEL. NON-NATIVE SPEAKERS OF ENGLISH MUST HAVE TWO SEMESTERS OR THREE QUARTERS OF STUDY IN ONE OR MORE FOREIGN LANGUAGES (NOT ENGLISH) AT THE POST SECONDARY LEVEL OR TAKE COMM 120.

Requirements for Graduation
1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A grade point average of 3.0 ("B") in all course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
3. SECURED APPROVAL OF CANDIDACY FROM THE COLLEGE OF EDUCATION;
4. A maximum of 14 quarter units or equivalent semester units may be transferred from other colleges and universities.

The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

4. The graduation writing requirement is met upon successful completion of 4A or 4B above;
5. 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 514. Curriculum Design in TESOL (4)
5. EESL 536. Crosscultural Teaching (4)
6. EESL 544. Reading Methods in TESOL (4)
7. EESL 545. Writing Methods in TESOL (4)
8. EESL 670. Principles and Practice in TESOL (4)
9. EESL 685. Research in TESOL (4)
10. Four units chosen from:
    - EESL 524. Supervised Observation/Participation in Teaching English to Speakers of Other Languages (2)
    - EESL 525. Tutoring Methods in Teaching English to Speakers of Other Languages (2)
    - EESL 535. Survey of Methods in Teaching English as a Foreign Language (4)
    - EESL 670. Principles and Practice in TESOL (4)

11. Eight units from A or B which will also satisfy the graduation writing requirement:

   A. EDUC 600. Master's Degree Project (4)
   
   B. EESL 999. Comprehensive Examination (0) plus eight units of electives listed below if not taken previously.

Electives:

ECTS 504. Principles of Career and Technical Education (4)
EDCI 624. Advanced Teaching Methodology (4)
EDCI 630. Children's Literature in the Classroom (4)
EESL 500. Introduction to TESOL (4)
EESL 501. Foundations of TESOL (4)
EESL 505. Differentiated Curriculum in TESOL (4)
EESL 524. Supervised Observation/Participation in Teaching English to Speakers of Other Languages (2)
EESL 525. Tutoring Methods in Teaching English to Speakers of Other Languages (2)
EESL 533. TESOL Crosscultural Teaching Practicum (2)
EESL 535. Survey of Methods in Teaching English as a Foreign Language (4)
EESL 540. Teaching Adult English Learner (4)
EESL 543. Speaking and Listening Methods for TESOL (4)
EESL 665. Creative Teaching in TESOL (4)
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.

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH EL AUTHORIZATION

Requirements (47-55 units)

Admission to the Program

Applicants must apply to CSUSB via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential Program in Mild/Moderate Disabilities. Candidates will be admitted to this program until Fall 2010. Applicants must meet BOTH the general requirements of the university for postbaccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the admissions staff in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Original written verification of a passing score on the CSET examination or appropriate subject matter competency;
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
5. A written personal narrative to be reviewed and approved by the Special Education Program Director;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended; 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;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session

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:
   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 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;
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 Credentials 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.
Admission to Supervised Student Teaching

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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).

Admission to supervised student teaching is based on the following criteria and conditions:
1. Completion of an application form submitted to the College of Education Student Services Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
4. Satisfactory completion of credential coursework with a grade point average of 3.0 (“B”) and no course grade lower than “B-”;
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the director of the Special Education Program. No more than 12 units of the credential program may be substituted. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one quarter each of ESPE 620A (concurrent with no more than two required credential courses) and EELB 621A (concurrent with no more than the final two required credential courses). No concurrent course work should be taken beyond the required Preliminary Level I Education Specialist credential courses in Mild/Moderate Disabilities without permission of the program director.

Credential Requirements

Level I Courses (47-55 units)
Completion of the following courses 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 (6)
2. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
3. EELB 317. Educational Psychology for a Diverse Society (4)
4. EELB 423. Mathematics Curriculum and Pedagogy (4)
5. ESPE 530. Introduction to Special Education (4) (with a grade of "B" or better)
6. ESPE 531. Methods and Procedures in Special Education (4) (with a grade of "B" or better)
7. ESPE 611. Assessment Methods in Special Education (4)
8. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
9. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
10. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
11. ESPE 620A. Supervised Student Teaching in Special Education I: Mild/Moderate Disabilities (8)
12. ESPE 621A. Supervised Student Teaching in Special Education II: Mild/Moderate Disabilities (8)

Note: Candidates who hold a valid California Multiple Subject, Single Subject, or another authorization of an Education Specialist credential must successfully complete ESPE 620A but are not required to complete ESPE 621A.

Upon completion of the 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. The State of California requires students to enroll in the Clear Level I 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 I Education Specialist Program requirements in order to obtain the Clear Level I Education Specialist Credential.

Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

Requirements (44-52 units)

The Preliminary Education Specialist Program has been developed in compliance with the changes required by the Commission on Teacher Credentialing (CTC). Candidates will be admitted to this program beginning in the Winter quarter 2011. According to the CTC, candidates completing the Preliminary Education Specialist credential in Mild to Moderate Disabilities are authorized to conduct assessments, provide instruction, and special education related services to individuals with a primary disability of specific learning disabilities, mild to moderate mental retardation, other health impairments, emotional disturbance, and autism spectrum disorders in kindergarten, grades 1 through 12, and classes organized for adults. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Admission to the Program

Applicants must apply to CSUSB Graduate Admissions in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential Program in Mild/Moderate Disabilities. Applicants must meet BOTH the general requirements of the university for postbaccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admissions Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: http://www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the Admissions staff in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Original written verification of passing score on the CSET examination or appropriate subject matter competency;
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
5. A written personal narrative to be reviewed and approved by the Special Education Program Director;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
8. Verification of an approved Coursework Plan including documentation of approved course substitutions;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education
   b. ESPE 531. Methods and Procedures in Special Education
   c. ONE of the following with a grade of "B-" or better:
      EELB 301. Growth and Development in Socio-Educational Contexts
      HD 240. Introduction to Child Development (4)

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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).

Admission to supervised student teaching is based on the following criteria and conditions:
1. Completion of an application form submitted to the College of Education Student Services Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST) and subject matter competency;
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 610, 611, 612, 613 and 614) with a grade point average of 3.0 ("B") and no course grade lower than "B-";
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the director of the Special Education Program. No more than 12 units of the credential program may be substituted. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one quarter each of ESPE 620A (concurrent with no more than two required credential courses) and ESPE 621A (concurrent with no more than the final two required credential courses). No concurrent course work should be taken beyond the required Preliminary Education Specialist credential courses in mild/moderate disabilities without permission of the program director. Students who fail to complete any required credential program coursework or ESPE 620A or ESPE 621A will be denied continuation in the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required credential coursework and student teaching, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in 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, in an expository writing course (306) taken at this university;
   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 Examination (WREE) offered at this university;
   d. A passing score on the written portion of the CBEST;
   Note: CBEST exam does not meet the graduate writing requirement for the Master of Arts degree;
2. 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;
3. Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
4. 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 Credentials Office, (909) 537-5609, for further information.
5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-"; no candidate may be recommended for the credential who has received a grade lower than "B-" in professional education course work including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (44-52 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-"
1. ESPE 610. Introduction to Autism Spectrum Disorders (4)
2. ESPE 611. Assessment Methods in Special Education (4)
3. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
4. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
5. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
6. ESPE 625. Collaboration and Consultation in Special Education (4)
7. ESPE 627. Education of Students with Autism Spectrum Disorders (4)
8. ESPE 642. Methods in Mild/Moderate Disabilities I (4)
9. ESPE 643. Methods in Mild/Moderate Disabilities II (4)
10. ESPE 620A. Supervised Student Teaching in Special Education I: Mild/Moderate Disabilities (8)
11. ESPE 621A. Supervised Student Teaching in Special Education II: Mild/Moderate Disabilities (8)
   Note: Candidates who hold a valid California Multiple Subject, Single Subject, or another authorization of an Education Specialist credential are not required to complete ESPE 620A but must successfully complete ESPE 621A.
INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH EL AUTHORIZATION

Requirements (100 units)

The Mild/Moderate Disabilities Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers for pupils with mild/moderate disabilities while earning the Preliminary Education Specialist Credential in Mild/Moderate Disabilities with English Language (EL) Authorization and the Master of Arts in Education, Special Education option. All requirements must be completed in two years. Candidates will be admitted to this program beginning in the Winter Quarter 2011.

According to the CTC, candidates completing the Preliminary Education Specialist Credential in Mild/Moderate Disabilities are authorized to conduct assessments, provide instruction, and special education related services to individuals with a primary disability of specific learning disabilities, mild to moderate mental retardation, other health impairment, emotional disturbance, and autism spectrum disorders in kindergarten, grades 1 through 12, and classes organized for adults. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

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 Mild/Moderate Disabilities Intern Coordinator for program information, including the two-year program course sequence and program costs. Grant funds may be available for additional financial support.

Admission to the Program

Applicants must apply online via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential program in Mild/Moderate Disabilities. Applicants must meet BOTH the general requirements of the university for Graduate Admission and the program requirements in order to be admitted to the university and classified as a graduate/credential candidate. In preparation for admission to the basic program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at http://www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the Admissions staff in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the credential program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score for the California Basic Educational Skills Test (CBEST);
3. Original written verification of a passing score on the CSET examination or appropriate subject matter competency;
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
5. A written personal narrative to be reviewed and approved by the Special Education Program Director;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic Achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate coursework or at least 2.75 in the last 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)
   c. ONE of the following with a grade of "B-" or better: EELB 301. Growth and Development in Socio-Educational Contexts (6)
      HD 240. Introduction to Child Development (4)

   Additionally, admission to the master's degree program requires completion of the graduate entrance writing requirement by one of the following:
   a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;
   b. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university.

Students who do not meet this 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.

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:

1. Submission of application for the Internship Education Specialist Credential: Mild/Moderate Disabilities;
2. Satisfactory completion of pre-service course work requirements with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)

   Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.
3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCCLAD Certification;
4. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Mild/Moderate Disabilities

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Mild/Moderate Disabilities:
1. Employment as a special day class teacher for pupils with mild/moderate disabilities in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;

2. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services;

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 at another university.

**Advancement to Candidacy**

In addition to the university and program admission requirements, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:

1. Achieved full admission to the M.A. in Education, Special Education Option;
2. Completed all required coursework with a grade point average of 3.0 ("B") or better with no grade lower than a "B-;"
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the director of the Special Education program.

**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.

**Internship Program Requirements (100 units)**

All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-;"

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. ESPE 610. Introduction to Autism Spectrum Disorders (4)
5. ESPE 611. Assessment Methods in Special Education (4)
6. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
7. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
8. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
9. ESPE 622A. Supervised Intern Teaching in Special Education: Mild/Moderate Disabilities (8) for a total of (48)
10. ESPE 625. Collaboration and Consultation in Special Education (4)
11. ESPE 627. Education of Students with Autism Spectrum Disorders (4)
12. ESPE 642. Methods in Mild/Moderate Disabilities I (4)
13. ESPE 643. Methods in Mild/Moderate Disabilities II (4)
14. ESPE 657. Seminar on Mild/Moderate Disabilities (4)
15. ESPE 999. Comprehensive Examination (0)

**Recommendation for the Preliminary Education Specialist Credential: Mild/Moderate Disabilities**

In addition to credential and degree course work, candidates must successfully complete the following exit requirements to be recommended for the Preliminary Education Specialist Credential: Mild/Moderate Disabilities:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Completion of the upper-division writing requirement;
3. 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 the Credentials Office for further information, (909) 537-5608.


**Requirements for Graduation**

In addition to requirements listed above, candidates must meet the following requirements for graduation:

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;

**Note:** The program may not include more than 13 quarter units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution which will not accept that work towards its own advanced degree program.

2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;

3. Successful completion of the comprehensive examination to meet the university graduation writing requirement. 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.

4. 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 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 re-file 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 re-filed.
PRELIMINARY LEVEL I EDUCATION

SPECIALIST CREDENTIAL:
MODERATE/SEVERE DISABILITIES
WITH EL AUTHORIZATION

Requirements (51-59 units)

Admission to the Program

Applicants must apply to CSUSB via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential Program in Mild/Moderate Disabilities. Candidates will be admitted to this program until Fall 2010. Applicants must meet BOTH the general requirements of the University for Postbaccalaureate Admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: http://www.csusb.edu/coe/programs/special_ed.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the admissions staff in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Original written verification of a passing score on the CSET examination or appropriate subject matter competency;
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
5. A written personal narrative to be reviewed and approved by the Special Education Program Director;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended; 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;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session

Recommendation for the Credential

In addition to the program admission requirements and Level I coursework, 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:
   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 Examination (WREE) offered at this university;
   D. A passing score on the written portion of the CBEST;
   E. A passing score on the Basic Educational Skills Test (CBEST);
   F. A passing score on the Basic Educational Skills Test (CBEST);
   G. Successful completion of an examination administered through the College of Extended Learning;
   H. Approved U.S. Constitution course substitution from another university;
3. Original verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
4. 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 Credentials Office (909) 537-5609 for further information.
5. Academic achievement, verified through official transcripts from ALL institutions of higher education attended; applicants must possess a minimum undergraduate grade point average of at least 3.0 in professional education course work, with no course grade lower than "B-";
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.

Admission to Supervised Student Teaching

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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). Admission to supervised student teaching is based on the following criteria and conditions:
1. Completion of an application form submitted to the College of Education Student Services Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

Requirements (44-52 units)

The Preliminary Education Specialist Program has been developed in compliance with the changes required by the Commission on Teacher Credentialing (CTC). Candidates will be admitted to the program beginning in the Winter quarter 2011. According to the CTC, candidates completing the Preliminary Education Specialist credential in Moderate/Severe Disabilities are authorized to conduct assessments, provide instruction, and special education related services to individuals with a primary disability of autism, moderate/severe/profound mental retardation, deaf-blind, emotional disturbance, and multiple disabilities in kindergarten, grades 1 through 12 to age 22, and classes organized for adults. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Admission to the Program

Candidates who hold a valid California Multiple Subject, Single Subject, or another authorization of an Education Specialist credential must successfully complete ESPE 620B but are not required to complete ESPE 621B.

Upon completion of the 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. The State of California requires students to enroll in the Clear Level I 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 I Education Specialist Program requirements in order to obtain the Clear Level I Education Specialist Credential.

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Original written verification of passing score on the CSET examination or appropriate subject matter competency;
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
5. Written personal narrative to be reviewed and approved by the Special Education Program Director;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended; candidates must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate coursework or at least 2.75 in the last 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
b. ESPE 531. Methods and Procedures in Special Education (4)
c. ONE of the following with a grade of "B-" or better:
   EELB 301. Growth and Development in Socio-Educational Contexts (6)
   HD 240. Introduction to Child Development (4)

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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).

Admission to supervised student teaching is based on the following criteria and conditions:
1. Completion of an application form submitted to the College of Education Student Services, Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST) and subject matter competency;
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 610, 611, 612, 613 and 614) with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the director of the Special Education Program. No more than 12 units of the credential program may be substituted. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one quarter each of ESPE 620B (concurrent with no more than two required credential courses) and ESPE 621B (concurrent with no more than the final two required credential courses). No concurrent course work should be taken beyond the required Preliminary Education Specialist credential courses in Moderate/Severe Disabilities without permission of the program director. Students who fail to complete any required credential program coursework or ESPE 620B or ESPE 621B will be denied continuation in the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required coursework, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in Moderate/Severe 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, in an expository writing course (306) taken at this university;
   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;

   2. 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;

   3. Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
   4. 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 Credentials Office, (909) 537-5609, for further information.

   5. A grade point average of 3.0 ("B") in professional education coursework, with no course grade lower than "B-;" no candidate may be recommended for the credential who has received a grade lower than "B-" in professional education coursework including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (44-52 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-;"

1. ESPE 610. Introduction to Autism Spectrum Disorders (4)
2. ESPE 611. Assessment Methods in Special Education (4)
3. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
4. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
5. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
6. ESPE 620B. Supervised Student Teaching in Special Education I: Moderate/Severe Disabilities (8)
7. ESPE 621B. Supervised Student Teaching in Special Education II: Moderate/Severe Disabilities (8)
8. ESPE 625. Collaboration and Consultation in Special Education (4)
9. ESPE 627. Education of Students with Autism Spectrum Disorders (4)
10. ESPE 662. Methods for Students with Moderate/Severe Disabilities I (4)
11. ESPE 663. Methods for Students with Moderate/Severe Disabilities II (4)

   Note: Candidates who hold a valid California Multiple Subject, Single Subject, or another authorization of an Education Specialist credential are not required to complete ESPE 620B but must successfully complete ESPE 621B.

INTERNERSHIP EDUCATION SPECIALIST CREDENTIAL: MODERATE/SEVERE DISABILITIES WITH EL AUTHORIZATION

Requirements (100 units)

The Moderate/Severe Disabilities Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers for pupils with moderate/severe disabili-
Applicants must meet the following prerequisites:

1. Completion of an application form;
2. Satisfactory completion of pre-service course work requirements included in the PAF;
3. Completion of the U.S. Constitution requirement by one of the following: a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)
4. Interview by university/school district representatives at the district or school district specifies on this contract as the beginning date of employment as an intern (Month/Day/Year) with the authorized signature by a copy of the contract indicating the beginning date of employment.
5. Successful verification of passing score for the California Basic Educational Skills Test (CBEST);
6. Successful verification of a passing score on the CSET examination or appropriate subject matter competency;
7. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
8. A written personal narrative to be reviewed and approved by the Special Education Program Director;
9. Verification of a negative tuberculin examination within the last four years;
10. Academic Achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
11. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
12. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)
   c. ONE of the following with a grade of "B-" or better: EELB 301. Growth and Development in Socio-Educational Contexts (6)
      HD 240. Introduction to Child Development (4)

Additionally, admission to the master's degree program requires completion of the graduate entrance writing requirement by one of the following:

a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;
b. Satisfactory completion of the Writing Requirement Examination (WREE) offered at this university.

Students who do not meet this 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.

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:

1. Submission of application for the Internship Education Specialist Credential: Moderate/Severe Disabilities;
2. Satisfactory completion of pre-service course work requirements with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)

Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.

3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCLAD Certification;
4. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Moderate/Severe Disabilities

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Moderate/Severe Disabilities:

1. Employment as a special day class teacher for pupils with moderate/severe disabilities in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;
2. Application for On-line Recommendation submitted to Credential Processor in the College of Education Student Services;
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 at another university.

Advancement to Candidacy
In addition to the university and program admission requirement, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:

1. Achieved full admission to the M.A. in Education, Special Education Option;
2. Completed all required coursework with a grade point average of 3.0 ("B") or better with no grade lower than a "B-;"
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the director of the Special Education program.

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.

Internship Program Requirements (100 units)
All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-;"

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. ESPE 610. Introduction to Autism Spectrum Disorders (4)
5. ESPE 611. Assessment Methods in Special Education (4)
6. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
7. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
8. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
9. ESPE 622B. Supervised Intern Teaching in Special Education: Moderate/Severe Disabilities (8) for a total of (48)
10. ESPE 625. Collaboration and Consultation in Special Education (4)
11. ESPE 627. Education of Students with Autism Spectrum Disorders (4)
12. ESPE 653. Seminar on Moderate/Severe Disabilities (4)
13. ESPE 662. Methods in Moderate/Severe Disabilities I (4)
14. ESPE 663. Methods in Moderate/Severe Disabilities II (4)
15. ESPE 999. Comprehensive Examination (0)

Recommendation for the Preliminary Education Specialist Credential: Mild/Moderate Disabilities
In addition to credential and degree course work, candidates must successfully complete the following exit requirements to be recommended for the Preliminary Education Specialist Credential: Mild/Moderate Disabilities:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Completion of the upper-division writing requirement;
3. 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 the Credentials Office for further information, (909) 537-5609.


Requirements for Graduation
In addition to requirements listed above, candidates must meet the following requirements for graduation:

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;

Note: The program may not include more than 13 quarter units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution which will not accept that work towards its own advanced degree program.

2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;

3. Successful completion of the comprehensive examination to meet the university graduation writing requirement. 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.

4. 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 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 re-file 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 re-filed.

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION WITH EL AUTHORIZATION

Requirements (59 units)
Completion of this credential certifies teachers to work with children from birth through pre-kindergarten who have disabilities or who are at risk of acquiring disabilities.

Admission to the Program
Applicants must apply to CSUSB via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Level I Education Specialist.
Credential Program in Early Childhood Special Education. Candidates will be admitted to this program until Fall 2010. Applicants must meet BOTH the general requirements of the university for postbaccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: http://www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the Admissions desk in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
4. A written personal narrative to be reviewed and approved by the Special Education Program Director;
5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
7. Documentation of 45 hours of experience in Early Childhood and special education settings;
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Verification of attendance at a Special Education Information Session

**Admission to Supervised Student Teaching**

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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).

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form submitted to the College of Education Student Services Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
4. Satisfactory completion of credential coursework with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the director of the Special Education Program. No more than 12 units of the credential program may be substituted. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one quarter each of ESPE 620C (concurrent with no more than two required credential courses) and EELB 621C (concurrent with no more than the final two required credential courses). No concurrent course work should be taken beyond the required Preliminary Level I Education Specialist credential courses in Early Childhood Special Education without permission of the program director.

**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.

1. 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 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 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.

2. 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;

3. 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-;"
5. 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 Credential Courses (59 units)**

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-;"

1. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
2. EELB 317. Educational Psychology for a Diverse Society (4)
PRELIMINARY EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION WITH EL AUTHORIZATION

Requirements (52 units)

The Preliminary Education Specialist Program has been developed in compliance with the changes required by the Commission on Teacher Credentialing (CTC). Candidates will only be admitted to this program beginning in the Winter quarter 2011. According to the CTC, candidates completing the Preliminary Education Specialist credential in Early Childhood Special Education are authorized to conduct assessments, provide instruction, and special education related services to children from birth to pre-kindergarten, with a primary disability of specific learning disability, mild/moderate mental retardation, traumatic brain injury, other health impairment, autism spectrum disorders, moderate/severe mental retardation, deaf-blindness, serious emotional disturbance, and multiple disabilities. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Admission to the Program

Applicants must apply to CSUSB via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential Program in Early Childhood Special Education. Applicants must meet BOTH the general requirements of the university for postbaccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at: http://www.csusb.edu/coe/programs/special_ed/index.htm.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the admissions desk in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score on the California Basic Educational Skills Test (CBEST);
3. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
4. A written personal narrative to be reviewed and approved by the Special Education Program Director;
5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
7. Documentation of 45 hours of experience in Early Childhood and special education settings;
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Verification of attendance at a Special Education Information Session;
10. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)
   c. ONE of the following with a grade of "B-" or better:
      - EELB 301. Growth and Development in Socio-Educational Contexts (6) OR
      - HD 240. Introduction to Child Development (4)

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One quarter in advance of the time candidates intend to enroll in supervised student teaching (ESPE 620 and 621), 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).

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form submitted to the College of Education Student Services Supervision desk;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 610, 611, 612, 613 and 614) with a grade point average of 3.0 ("B") and no course grade lower than "B-";
5. Verification of a negative tuberculin examination within the last four years.
All coursework taken at another college and substituted for credential program requirements is subject to approval by the director of the Special Education Program. No more than 12 units of the credential program may be substituted. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one quarter each of ESPE 620C (concurrent with no more than two required credential courses) and ESPE 621C (concurrent with no more than the final two required credential courses). No concurrent coursework should be taken beyond the required Preliminary Education Specialist credential courses in Early Childhood Special Education without permission of the program director. Students who fail to complete any required credential program coursework or ESPE 620C or ESPE 621C will be denied continuation in the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required credential coursework and student teaching, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in Early Childhood Special Education:

1. Completion of the upper-division writing requirement by ONE of the following:
   a. Completion, with a grade of "B" (3.0) or better, in an expository writing course (306) taken at this university;
   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 Examination (WREE) offered at this university;
   d. A passing score on the written portion of the CBEST.

Note: CBEST exam does not meet the graduate writing requirement for the Master of Arts degree;

2. 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;

3. Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);

A grade point average of 3.0 ("B") in professional education coursework, with no course grade lower than "B-:" no candidate may be recommended for the credential who has received a grade lower than "B-:" in professional education course work including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (52 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:" is a grade point average of 3.0 ("B") in professional education coursework, with no course grade lower than "B-:

1. ESPE 610. Introduction to Autism Spectrum Disorders (4)
2. ESPE 611. Assessment Methods in Special Education (4)
3. ESPE 612. Supportive Learning Environments for Students with Disabilities (4)
4. ESPE 613. Curriculum and Methods in Literacy Learning for Students with Disabilities (4)
5. ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
6. ESPE 620C. Supervised Student Teaching in Special Education I: Early Childhood Special Education (8)
7. ESPE 621C. Supervised Student Teaching in Special Education II: Early Childhood Special Education (8)
8. ESPE 625. Collaboration and Consultation in Special Education (4)
9. ESPE 627. Education of Students with Autism Spectrum Disorders (4)
10. ESPE 672. Methods in Early Childhood Special Education I (4)
11. ESPE 673. Methods in Early Childhood Special Education II (4)

INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION WITH EL AUTHORIZATION

Requirements (100 units)

The Early Childhood Special Education Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers for children with disabilities between the ages of birth and pre-kindergarten while earning the Preliminary Education Specialist Credential for Early Childhood Special Education with English Language (EL) Authorization and the Master of Arts in Education, Special Education option. All requirements must be completed in two years. Candidates will be admitted to this program beginning in the Winter Quarter 2011.

According to the CTC, candidates completing the Preliminary Education Specialist Credential in Early Childhood Special Education are authorized to conduct assessments, provide instruction, and special education related services to children from birth to pre-kindergarten, with a primary disability of specific learning disability, mild/moderate mental retardation, traumatic brain injury, other health impairment, autism spectrum disorders, moderate/severe mental retardation, deaf-blindness, serious emotional disturbance, and multiple disabilities. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

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 two-year program course sequence and program costs. Grant funds may be available for additional financial support.

Admission to the Program

Applicants must apply online via CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Preliminary Education Specialist Credential program in Early Childhood Special Education. Applicants must meet BOTH the general requirements of the university for Graduate Admission and the program requirements in order to be admitted to the university and classified as a graduate/credential candidate. In preparation for admission to the basic program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at [http://www.csusb.edu/coe/programs/special_ed/index.htm](http://www.csusb.edu/coe/programs/special_ed/index.htm) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the Admissions staff in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the credential program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Original written verification of passing score for the California Basic Educational Skills Test (CBEST);
3. Two written recommendations by persons who can address scholastic performance and suitability for teaching (recommendation forms are available in the Special Education Credential Program Admission Booklet);
4. A written personal narrative to be reviewed and approved by the Special Education Program Director;
5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through official transcripts from all institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate coursework or at least 2.75 in the last 90 quarter units attempted;
7. Documentation of 45 hours of experience in programs designed to provide educational services to children and/or families from birth to pre-K;
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Verification of attendance at a Special Education Information Session;
10. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)
   c. ONE of the following with a grade of "B-" or better:
      EELB 301. Growth and Development in Socio-Educational Contexts (6)
      HD 240. Introduction to Child Development (4)

Additionally, admission to the master's degree program requires completion of the graduate entrance writing requirement by one of the following:
   a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;
   b. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university.

Students who do not meet this 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.

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:
1. Submission of application for the Internship Education Specialist Credential program;
2. Satisfactory completion of pre-service course work requirements with a grade of "B-" or better:
   a. ESPE 530. Introduction to Special Education (4)
   b. ESPE 531. Methods and Procedures in Special Education (4)

Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.

3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCLAD Certification;
4. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Early Childhood Special Education

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Early Childhood Special Education:
1. Employment as a special day class teacher for pupils with moderate/severe disabilities in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;
2. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services;
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 at another university.

Advancement to Candidacy

In addition to the university and program admission requirement, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:
1. Achieved full admission to the M.A. in Education, Special Education Option;
2. Completed all required coursework with a grade point average of 3.0 ("B") or better with no grade lower than a "B-;"
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the director of the Special Education program.

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.

Internship Program Requirements (100 units)

All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-;"
1. EDUC 603. Effective Communication in Education (4)
2. EDUC 605. Foundations of Education (4)
3. EDUC 607. Introduction to Educational Research (4)
4. ESPE 610. Introduction to Autism Spectrum Disorders (4)
4. 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 in the Schedule of Classes. Advance ment to Candidacy is needed before the graduation check can be completed. Students not completing their degree in the term applied for will need to re-file 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 re-filed.

ADAPTED PHYSICAL EDUCATION ADDED AUTHORIZATION

Requirements (20 units)

For information on the added authorization, contact the Credential Office, CE-102, (909) 537-7401.

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Added Authorization in Adapted Physical Education program requires the following:

1. A valid California teaching credential authorizing the teaching of physical education.

Recommendation for the Added Authorization in Adapted Physical Education:

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Added Authorization in Adapted Physical Education requires one of the following:

1. A valid preliminary, clear, professional clear, or life California general education teaching credential based on a baccalaureate degree, and a program of professional preparation including student teaching that authorizes the teaching of physical education in any grades K-12;
2. A valid preliminary, professional clear, Level I, Level II, clear or life special education teaching credential with completion of a minimum of twelve semester units, or the equivalent quarter units, in physical education content courses with a minimum of three semester units, or the equivalent quarter units, in both kinesiology and motor development.

Requirements (20 units)

1. KINE 311. Introduction to Adapted Physical Education (4)
2. KINE 330. Movement Skill Assessment for Individuals with Disabilities (4)
3. KINE 332. The Nature and Issues Concerning Individuals with Disabilities (4)
4. KINE 333. Applied Behavior Management (4)
5. KINE 334. Seminar in Adapted Physical Activity (4)

AUTISM SPECTRUM DISORDER ADDED AUTHORIZATION IN SPECIAL EDUCATION

Requirements (16 units)

The Autism Spectrum Disorder Added Authorization may be added to Education Specialist credentials with authorizations under the 1997 standards in Mild to Moderate Disabilities, Physical and Health Impairments, Deaf and Hard of Hearing, and Visual Impairments. Individuals with a valid Education Specialist credential with Autism Spectrum Disorder Added Authorization may serve students with Autism Spectrum Disorder in educational settings also designated by the primary credential authorization.

Admission to the Program

Applicants must apply online to CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Autism Spectrum Disorder Added Authorization. Applicants must meet BOTH the general requirements of the university for
postbaccalaureate admission and the program requirements in order to be admitted to the university and classified. In preparation for admission, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at: http://www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the admissions desk in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Submission of an Education Specialist credential with an authorization under the 1997 standards (i.e. Level I and Level II credentials) in Mild to Moderate Disabilities, Physical and Health Impairments, Deaf and Hard of Hearing, and Visual Impairments;
3. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
4. Verification of a negative tuberculin examination within the last four years;
5. Verification of attendance at a Special Education Information Session;
6. PAF application fee receipt from the Bursar's office.

Upon admission to the university and the Autism Spectrum Disorder Added Authorization Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Requirements (16 units)

1. ESPE 610. Introduction to Autism Spectrum Disorders (4)
2. ESPE 623A. Education Specialist Added Authorization Practicum: Autism Spectrum Disorders I (4) must be taken concurrently with ESPE 610
3. ESPE 623B. Education Specialist Added Authorization Practicum: Autism Spectrum Disorders II (4) must be taken concurrently with ESPE 627

EARLY CHILDHOOD SPECIAL EDUCATION ADDED AUTHORIZATION

Requirements (16 units)

The Early Childhood Special Education Added Authorization may be added to Education Specialist credentials with authorizations under the 1997 standards (i.e. Level I and Level II credentials) and the 2004 standards (i.e. Preliminary or Clear credentials). Individuals with a valid Education Specialist credential with the Early Childhood Special Education Added Authorization may serve students with disabilities between the ages of birth and pre-kindergarten.

Admission to the Program

Applicants must apply online to CSUMentor in addition to submitting a complete Program Admission File (PAF) to be considered for admission to the Early Childhood Special Education Added Authorization. Applicants must meet BOTH the general requirements of the university for postbaccalaureate admission and the program requirements in order to be admitted to the university and classified. In preparation for admission, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at: http://www.csusb.edu/coe/programs/special_ed/index.htm and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their PAF. Applicants must submit a PAF to the admissions desk in the College of Education Student Services according to the deadlines published for the quarter of admission. Admission to the program is based on the following requirements included in the PAF:

1. Completion of an application form;
2. Submission of an Education Specialist credential;
3. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. 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;
4. Verification of a negative tuberculin examination within the last four years;
5. Verification of attendance at a Special Education Information Session;
6. PAF application fee receipt from the Bursar's office.

Upon admission to the university and the Early Childhood Special Education Added Authorization Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Requirements (16 units)

1. ESPE 623C. Education Specialist Added Authorization Practicum: Early Childhood Special Education I (4) must be taken concurrently with ESPE 672
2. ESPE 623D. Education Specialist Added Authorization Practicum: Early Childhood Special Education II (4) must be taken concurrently with ESPE 673
3. ESPE 672. Methods in Early Childhood Special Education I (4)
4. ESPE 673. Methods in Early Childhood Special Education II (4)

SPECIALIST AND SERVICES CREDENTIAL PROGRAMS

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;
4. 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.);
5. Successful completion of the California Basic Educational Skills Test (CBEST).
Recommendation for the Credential

To be eligible to be recommended for the credential, a candidate must:
1. Successfully complete all program requirements;
2. Obtain a recommendation from the program committee.

Credential Requirements (37 units)

1. EADM 601. Educational Leadership and Ethics (4)
2. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
3. EADM 610. Supervision and Evaluation of Teachers (4)
4. EADM 613. School Personnel Management (4)
5. EADM 619. Policy, Governance and Legal Aspects of Education (4)
6. EADM 620. Practicum in Educational Administration (1)
7. EADM 622. Curriculum, Instruction and Assessment (4)
8. EADM 625. School Finance and Business Management (4)
9. EADM 626A. Issues and Trends in School Administration: School Reform (1)
10. EADM 626B. Issues and Trends in School Administration: Common Core Standards (1)
11. EADM 626C. Issues and Trends in School Administration: S.T.E.M. Programs (1)
12. EADM 626D. Issues and Trends in School Administration: Special Education (4)
13. EADM 621A. Fieldwork in Educational Administration I (2)
14. EADM 621B. Fieldwork in Educational Administration II (2)

Note: Students must see program coordinator/advisor for recommended sequence of program.

Administrative Services Preliminary (Internship) Credential

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary (Internship) Credential program requires the following:
1. An application for admission to the program must be submitted;
2. A valid California teaching or pupil personnel or health services credential;
3. A 3.0 ("B") grade point average in all coursework taken in education;
4. Completion of the graduate entrance writing requirement;
5. Verification of three full time years of teaching, counseling, or other certified work;
6. 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.

Credit Requirements (37 units)

1. EADM 601. Educational Leadership and Ethics (4)
2. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
3. EADM 610. Supervision and Evaluation of Teachers (4)
4. EADM 613. School Personnel Management (4)
5. EADM 619. Policy, Governance and Legal Aspects of Education (4)
6. EADM 620. Practicum in Educational Administration (1)
7. EADM 622. Curriculum, Instruction and Assessment (4)
8. EADM 625. School Finance and Business Management (4)
9. EADM 626A. Issues and Trends in School Administration: School Reform (1)
10. EADM 626B. Issues and Trends in School Administration: Common Core Standards (1)
11. EADM 626C. Issues and Trends in School Administration: S.T.E.M. Programs (1)
12. EADM 626D. Issues and Trends in School Administration: Special Education (4)
13. EADM 630A. Internship Fieldwork in Educational Administration (1)
14. EADM 630B. Internship Fieldwork in Educational Administration (2)

Note: Students must see program coordinator/advisor for recommended sequence of program.

Administrative Services Professional Credential

Requirements (18 units)

Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, admission to the Professional Administrative Services Credential program requires the following:
1. Application for admission to the program;
2. A valid Preliminary Services Credential;
3. Verification of current employment of at least one year 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:
1. A minimum of two years of full-time school administrative experience in the public schools, or private schools or equivalent;
2. Completed all program requirements while employed in a full-time school administrative position.

Credit Requirements (8-18 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 Communities (3)
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.
Alternative Assessment Program (8 units)

As an alternative to the regular program, students with four or more years of administrative experience may, with consent of the coordinator, verify competency by demonstrating knowledge, skills, and abilities through an assessment/evaluation component by completing the following courses:

1. EADM 687. Professional Development and Assessment (4)
2. EADM 688. Professional Development and Evaluation (4)

PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH EL AUTHORIZATION

Requirements (28-32 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 II Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level I Education Specialist program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;

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/adolescents/adults;
3. 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 (4)
   - 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-;
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

Level I Credential Courses (28-32 units)

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-;"

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
5. ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
6. ESPE 685. Advanced Behavior Management (4)
7. ESPE 694. Special Education Leadership Evaluation and Outcomes (4)

PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MODERATE/SEVERE DISABILITIES WITH EL AUTHORIZATION

Requirements (28-32 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 II Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level I Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;

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/adolescents/adults;
3. 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 (4)
   - 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-;
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

Level I Credential Courses (28-32 units)

Completion of the following courses with a grade point average of 3.0 ("B") or better and no grade lower than "B-;"

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
5. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
6. ESPE 685. Advanced Behavior Management (4)
7. ESPE 694. Special Education Leadership Evaluation and Outcomes (4)
PROFESSIONAL LEVEL II EDUCATION
SPECIALIST CREDENTIAL: EARLY CHILDHOOD
SPECIAL EDUCATION WITH
EL AUTHORIZATION
Requirements (24-28 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 II Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level I 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;
2. Submission of a valid Preliminary Level I Education Specialist Credential: Early Childhood;

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 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/adolescents/adults;
3. 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 (4)
   - 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-;"
5. 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 I Credential Coursework (24-28 units)

1. EELB 640. The Education of K-12 English Language Learners (4)
2. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
3. ESPE 635. Effective Communication with Professionals and Families (4)
4. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
5. ESPE 685. Advanced Behavior Management (4)
6. ESPE 694. Special Education Leadership Evaluation and Outcomes (4)

PUPIL PERSONNEL SERVICES CREDENTIAL:
SCHOOL COUNSELING
Requirements (68 units)

The program for the Pupil Personnel Services Credential is designed to fulfill the requirements for the State of California to counsel in grades K-12. This 72-unit credential program is designed for students who are not enrolled in the M.S. in Counseling and Guidance program at California State University, San Bernardino, but who do hold a master's degree from another institution in a related discipline.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the pupil personnel services credential program are:

1. Attend an Educational Counseling Program admission orientation meeting (call the Department of Educational Psychology and Counseling for orientation schedule);
2. Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meeting. Portfolios will be evaluated in accordance to the Educational Counseling program portfolio rubric, student will be notified as to their status to enroll in ECLG 531. Completed portfolio contains:
   a. Application and current vitae/resume;
   b. Transcripts of all higher education coursework;
   c. Written Personal Statement;
   d. Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);
   e. Proof of successful completion of the California Basic Educational Skills Test (CBEST);
   f. Evidence of current negative TB skin test;
   g. Evidence of possession of 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);
   i. 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.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three faculty members of the educational counseling program. This committee will evaluate the admission folder and decide on the student's admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

Recommendation for the Credential

In order to be recommended for a credential, the student must have:

1. A minimum of 72 quarter units of graduate-level work, with a minimum of 32 units completed in residency at this university;
2. A grade point average of "B" (3.0) in the course work taken to satisfy the credentialing requirements, including a minimum grade of "B" in the prerequisite course, ECLG 531, and no grade below a "C" (2.0) or better in all other courses in the program;
3. Completion of a credential program plan of study, certified by a program advisor and the credentialing office of the university;
4. Completion of a final competency check through demonstrated competence by completion of the Student Outcome Assessment Professional Portfolio.

Prerequisite course:

1. ECLG 531. Introduction to Counseling (4)
Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the PPS in School Psychology are:

1. Admission and acceptance to CSU, San Bernardino;
2. Current vitae resume;
3. Current sealed transcript which verifies an M.A., M.S. or Ph.D. in Counseling or a related field;
4. Writing sample (include an APA-style graduate level paper which indicates the applicant's competency in writing);
5. Application and personal statement;
6. 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;
7. Proof of passing the California Basic Educational Skills Test (CBEST);
8. Evidence of possession of professional liability insurance (may be provided once accepted into program);
9. Evidence of possession of a valid California teaching credential, PPS in School Counseling, or a Certificate of Clearance for eligibility to participate in fieldwork;
10. Evidence of current negative TB skin test;
11. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet, and email.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three members of the educational counseling/school psychology faculty. This committee will evaluate the admissions folder and decide on the student’s admission status. Students admitted to the program will meet with their advisor and design their schedule for the two-year program, including any work needed to complete the common and generic standards for the PPS Credential. Students who are not chosen for the cohort will be notified of the admission decision.

Recommendation for the Credential

In order to be recommended for a credential, a student must have:
1. Completed all prescribed coursework with a grade of “B” (3.0) or better;
2. Completed all requirements for the 1200-hour internship including the specific competencies in the program as mandated by the California Commission for Teacher Credentialing.

Credential Requirements (46-97 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. Human Development for Counseling (4)
5. ECLG 650. Applied Career Counseling (4)
6. ECLG 651. 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. Consultation and Advocacy (4)
13. ECLG 659. Theory and Practice of Group Counseling (4)
14. ECLG 679. Counseling Field Experience (4) for a total of (16)

School Psychology 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)
READING/LANGUAGE ARTS
SPECIALIST CREDENTIAL
Requirements (48 units)

Admission to the Program
In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Reading/Language Arts Specialist Credential program requires the following:

1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master's Program Office) which includes information to complete:
   A. Program application form;
   B. Letter of interest which includes experiences working with diverse populations;
   C. Three letters of recommendation: one from the candidate's school principal, and two from other district professionals who can speak to the strengths of the applicant's personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading/Language Arts Coordinator to complete the program plan.

Recommendation for the Credential
In order to be recommended for a credential, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 ("B") or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

Credential Requirements (48 units)
Level I: Reading Certificate

1. ERDG 620. Foundations of Reading and Writing (4)
   Note: ERDG 620 is a prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)
6. ERDG 658. Literacy and Language Processes (4)

Level I: to be taken upon completion of all courses in Level I

7. ERDG 624. Socio-psycholinguistics and Literacy (4)
8. ERDG 630. Practicum for Leadership in Reading and Writing (4)
9. ERDG 631. Curriculum Perspectives in Reading and Writing (4)
10. ERDG 632. Assessment/Evaluation in Reading and Writing (4)
11. ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
12. ERDG 679. Field Work: Reading/Language Arts Specialist (4)

SCHOOL NURSE CREDENTIAL
Requirements (51 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, such as HSCI 374.

Recommendation for the Professional Credential
In order to be recommended for a credential, the student must have:

1. Completed all prescribed course work with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary Resuscitation card, Level C.

Credential Requirements
Core Courses (51 units)

1. ESPE 530. Introduction to Special Education (4)
2. HSCI 617. Epidemiology (4)
3. NURS 502. Advanced Physical/Health Assessment: Child, Adolescent (4)
4. NURS 503. Principles of School Nursing Practice (4)
5. NURS 600. Population Health Assessment (6)
6. NURS 610. Program Planning and Evaluation (6)
7. NURS 620. Health Policy Leadership (6)
8. NURS 630. Advanced Nursing Roles (3)
9. NURS 645. Research for Advanced Practice Nursing (4)
10. NURS 655. Advanced Nursing Theory (4)
11. NURS 658. Nursing Education: Curriculum and Instruction (4)
12. NURS 688. Advanced Role Practicum (2)

Special Teaching Authorization in Health (STAH)

1. NURS 659. Assessment and Evaluation (4)
2. NURS 660. Nursing Education: Technology in Nursing Education (4)
3. NURS 681. Advanced Public/Community Health Internship I (3)
4. NURS 682. Advanced Public/Community Health Internship II (3)

The STAH is not required for the credential and available to Master's students. Requirements for the STAH are: completion of 14 units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test). Application for the STAH requires an Exit Interview.
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 ECTS 508 as soon as possible.

Credential Requirements (12 units)
1. ECTS 508. Organization and Structure of Designated Subjects Programs (4)
2. ECTS 509. Personnel Management in Designated Subjects Programs (4)
3. ECTS 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Crosscultural, Language and Academic Development (CLAD)

Admission to the Program
1. Postbaccalaureate standing;
2. Completion of a single subject or multiple subject teaching credential or the equivalent.

Certificate Requirements (18 units)
1. Four units chosen from:
   EELB 312. Family, Culture and Schooling (2)
   EESL 536. Crosscultural Teaching (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. 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)

Certificate in E-Learning

Certificate Requirements (16 units)
1. Sixteen units chosen from:
   ETEC 501. Foundations of e-Learning (4)
   ETEC 541. E-Learning Design and Development (4)
   ETEC 674. E-Learning Technology and Methods (4)
   ETEC 648. E-Learning Delivery and Assessment (4)
   ETEC 692. Practicum in Educational Technology (4)

Certificate in Early Childhood Special Education

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;
3. Submit documentation of a minimum of 45 hours in an Early Childhood Special Education Program setting;
4. 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;
8. Meet with assigned faculty advisor to complete Advising Confirmation form.

Certificate Requirements (30 units)
1. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
2. ESPE 662. Methods for Students with Moderate/Severe Disabilities I (4)
3. ESPE 672. Methods in Early Childhood Special Education I (4)
4. ESPE 673. Methods in Early Childhood Special Education II (4)
5. ESPE 679F. Special Education Fieldwork: Early Childhood Special Education I (4)
6. HD 270. Infant and Toddler Development (5)
7. HD 280. Early Childhood Development (5)

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 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)
   CSE 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 620. Using Children’s Literature to Teach Environmentally (4)
   - EENV 644. Seminar in Environmental Education (4)
   - EENV 650. Selected Topics in Environmental Education (4)
   - EENV 651. Historical and Contemporary Readings in Environmental Education (4)
   - EENV 652. Nature Study in Environmental Education (4)
   - EENV 654. Fundraising Fundamentals in Environmental Education (4)
   - EENV 656. Water Education in Environmental Education (4)
   - EENV 664. Research in Environmental Education (4)
6. EENV 640. Early Reading: Assessment and Intervention (4)
7. EENV 641. Historical and Contemporary Readings in Environmentally (4)

Certificate in Holistic and Integrative Education

Admission to the Program
1. Postbaccalaureate standing;
2. Interview with program coordinator of the M.A. in Education, Holistic and Integrative Education.

Certificate Requirements (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)

Certificate in Reading/Language Arts

Admission to the Program
In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the reading certificate requires the following:
1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master’s Program Office) which includes information to complete:
   A. Program application;
   B. Letter of interest which includes experiences working with diverse populations;
   C. Three letters of recommendation: one from the candidate’s school principal, 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)
1. ERDG 620. Foundations of Reading and Writing (4)
   Note: This course is the prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)

Certificate in Rehabilitation Counseling

Certificate Requirements (28 units)
1. ECLG 531. Introduction to Counseling (4)
2. EREH 615. Introduction to Rehabilitation Counseling (4)
3. EREH 616A. Multiple Aspects of Disability: Medical (4)
4. EREH 616B. Multiple Aspects of Disability: Vocational (4)
5. EREH 617. Vocational Assessment and Development (4)
6. EREH 618. Applied Job Placement (4)
7. EREH 649. Organizational Development of Rehabilitation Services (4)

Note: Rehabilitation Counseling 615 must be completed with a grade of “B” (3.0) or better to continue work in the certificate program.

Certificate in School Business Management

Certificate Requirements (26 units)
1. EADM 511. Contemporary School Business Management (4)
2. EADM 512. School Finance and Budgeting (4)
3. EADM 513. School Accounts and Related Functions (4)
4. EADM 525. Classified Personnel Administration (4)
5. Six units chosen from:
   - EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
   - EADM 514B. School Business Management and Service Functions: Risk Management (2)
   - EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
   - EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
   - EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
   - EADM 514F. School Business Management and Service Functions: Employee Supervision (2)
6. Four units of electives chosen from:
   - EADM 519. Legal Aspects of Classified Personnel Administration (4)
   - ECLG 531. Introduction to Counseling (4)
   - ESPE 530. Introduction to Special Education (4)
   - PA 307. Public Relations in the Public Sector (4)
OR
Four additional units chosen from (if not taken previously):
EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
EADM 514B. School Business Management and Service Functions: Risk Management (2)
EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
EADM 514F. School Business Management and Service Functions: Employee Supervision (2)

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 quarter 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)
1. Four units chosen from:
   - ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities (4)
   - ERDG 625. Practicum in Reading and Writing (4)
2. ESPE 635. Effective Communication with Professionals and Families (4)
3. ESPE 646. The Resource Specialist in Special Education (4)
4. ESPE 679E. Special Education Field Work: Resource Specialist (4)

Graduate level course descriptions are listed on the following pages. Refer to the page numbers given for those programs listed elsewhere in the graduate studies section.

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. (1-5 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. (1-4 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. (1-4 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 qualitative and quantitative 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)

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)

620. Spiritual Perspectives in Public Education
Principles and techniques of integrating a nonsectarian spiritual perspective in a public school setting. Theoretical framework consistent with a variety of spiritual traditions, the implications of the new sciences, and current educational psychology (e.g., constructivism). Focus on nonsectarian methods that nourish the inner life of the educator and the student. (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)

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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

Doctoral-level courses

700. Scientific Inquiry
Overview of basic tools and methods required for scientific inquiry. Guided practice in the critical review of current educational literature, hypothesis development, and design of basic quantitative and qualitative methods. Content coverage to include research designs, sampling techniques, data collection strategies, basic psychometrics, descriptive and inferential statistics, and ethical treatment of research participants. Prerequisite: admission to the Ed.D. in Educational Leadership. (4 units)

702. Foundations in Education and Leadership
Examines links between educational theory, research, and practice in the larger context of ethical, philosophical, economic, and political issues, while addressing diversity and equity in the U.S. and worldwide. Provides a context for understanding the current and emerging nature and role of education and educational leaders in contemporary society. Four hours lecture and a two hour per week educational workshop. (5 units)

705. Organization and Administration of School Systems/Community Colleges
Examines educational institutions, leadership, organizational and administrative theory. Developing and sustaining positive relationships with boards and governance issues are emphasized. Prerequisite: admission to the Ed.D. in Educational Leadership. (4 units)

707. Quantitative Research Methods
Guided practice in designing and conducting quantitative research in education. Analyzes quantitative methods, data collection and results. Prerequisites: EDUC 700 and 705. (4 units)

709. Diversity and Equity in Educational Administration: School Districts and Community Colleges
School administrative and management issues related to the increasing diversity and equity issues in educational institutions. Reviews theories about diversity as well as equity legislation, harassment policies, and institutional participation. Considers cultural background, communication patterns, social networks, leadership and administrative styles. Prerequisites: EDUC 700 and 705. (4 units)

712. Qualitative Research Methods
Guided practice in designing and conducting qualitative research in education. Analyzes qualitative methods, data collection, and results. Prerequisites: EDUC 707 and 709. (4 units)

714. Educational Systems as Cultural and Social Systems
School relationships and systems: administration, bureaucracies, faculty and student relations, globalization, and competition in the global market. Examines the educational institution and the classroom as social psychological systems. Prerequisites: EDUC 707 and 709. (4 units)

718. Strategic Planning, Accountability and Change
Principles of change, innovation, shared vision, mission and goals in accordance with the principles of strategic planning and accountability, to include the California Educational and Facilities Master Plan. Four hours lecture and two hours practicum. Prerequisites: EDUC 712 and 714. (5 units)
720. Advanced Quantitative Research Methods
Advanced designs and statistics commonly applied in educational research. Analysis and interpretation of data from designs using covariates (ANOVA and hierarchical regression), mediation and moderation effects (in ANOVA and multiple regression), hierarchical linear modeling (nested data), factor analysis, structural equation modeling, utility analysis, and meta-analysis. Results writing and discussion sections based on selected data analyses. Prerequisites: EDUC 707 and 716. (4 units)

722. Advanced Qualitative Research Methods
Advanced designs and data analysis commonly applied in qualitative study in education on a topic of their choice and to better understand the assumptions of theory, method, and analysis guiding their research choices. Readings will focus on issues involved in the interconnected processes of framing a study, writing a proposal, considering ethical and political issues, collecting data, analyzing and interpreting data, and writing and presenting research for varied purposes. Prerequisites: EDUC 707 and 716. (4 units)

726. Ethical Leadership and Decision Making in Education
Leadership ethics and the utilization of principles of personal balance in daily life and work. Covers decision making theories and how decisions are made at various levels in P-12 and community college to effectuate positive and sustaining change. (4 units)

780. Special Topics in Educational Leadership
Special topic in current issues is examined in depth. Analysis, evaluation and reflection of a controversial educational leadership issue, such as school reform, organizational studies, curriculum, instruction and supervision, assessment and evaluation, and sociocultural studies. Graded Credit/no credit. Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director. (1-4 units)

790. Research Seminar
Mentors and guides candidates through the dissertation. Members meet and discuss their progress with the cohort and faculty. Faculty supervise dissertation planning, research, and preparation. Must be repeated for a total of five units. Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree. (1 unit)

795. Independent Study
Advanced material beyond the scope of current course offerings. May be repeated for credit for a maximum of six units. Each course must address a different topic. Graded Credit/no credit. Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director. (2-4 units)

799. Dissertation
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit. Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree. (2-6 units)

COURSE OFFERINGS IN CARRER AND TECHNICAL STUDIES (ECTS)

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. Formerly EVOC 501. (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. Formerly EVOC 502. Prerequisite: ECTS 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. Formerly EVOC 503. Prerequisite: ECTS 501 or consent of instructor. (4 units)

504. Principles of Career and Technical Education
History, philosophy and social significance of career and technical education, especially in California; investigation of the theories and application of the principles of career and technical education. Formerly EVOC 504. (4 units)

505. Instructional Materials for English Language Learners
Investigation and application of pedagogical and andragogical methodology to design and develop course materials to promote linguistic, academic, and social proficiency. Prerequisites: ECTS 501 and 519 or consent of instructor. Formerly EVOC 505. (4 units)

508. Organization and Structure of Career and Technical Programs
Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to career and technical programs. Formerly EVOC 508. Corequisites: ECTS 509 and 510. (4 units)

509. Personnel Management in Career and Technical Programs
Principles of personnel selection, evaluation, supervision, school law, and related topics as they apply to career and technical programs. Formerly EVOC 509. Corequisites: ECTS 508 and 510. (4 units)

510. Field Work in Coordination and Supervision of Career and Technical Programs
Supervised field work in supervision and coordination of career and technical programs. Students will contract to perform administrative tasks related to site-based instructional programs. Formerly EVOC 510. Corequisites: ECTS 508 and 509. (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. Formerly EVOC 518. Prerequisites or corequisites: ECTS 501 and consent of instructor. (4 units)

519. Computer Applications for Career and Technical Educators
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. Formerly EVOC 519. (4 units)
520. Curriculum Development for Career and Technical Programs
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. Formerly EVOC 520. Prerequisite: ECTS 501 or its equivalent. (4 units)

521. Assessing Student Progress
The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Formerly EVOC 521. Prerequisite: ECTS 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. Formerly EVOC 522. Prerequisite: ECTS 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. Formerly EVOC 523. (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. Formerly EVOC 524. Prerequisite: graduate standing or consent of instructor. (1-4 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

637. Foundations of Career and Technical Studies
Historical context, philosophy and development of vocational education. Formerly EVOC 637. Prerequisite: graduate standing. (4 units)

638. Critical Issues for the Career and Technical Educator
Current legislation, program planning, professional development and current issues in vocational education. Formerly EVOC 638. Prerequisite: ECTS 637 or consent of instructor. (4 units)

639. Professional Competencies in Career and Technical Studies
Roles of professional organizations, research in vocational education, grant writing and strategies for project evaluation. Formerly EVOC 639. Prerequisite: ECTS 638 or consent of instructor. (4 units)

640. Topics in Vocational Education
Study of selected areas of advanced education topics to be determined by the instructor. May be repeated for credit with consent of instructor as topics change. Formerly EVOC 640. Prerequisites: graduate standing and consent of instructor. (2-4 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. Formerly EVOC 999. (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 EDCA 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. Emphasizes postmodernism and approaches of communication and critical theories. Addresses issues such as conflict, typical experiences of institutional educators, the struggle for recognition and respect, burn-out 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. Formerly EDCA 614. (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 EDCA 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 ex-felons 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)

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 select 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, burn-out 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)

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 ex-felons 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 communities. 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 incarcerated, 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 educational norms, "normal" versus "abnormal" 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)

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)

630. Children’s Literature in the Classroom
Intensive study of children’s literature as it applies in elementary and middle school classrooms with an emphasis on developing familiarity with the variety and wealth of literature available, strategies for classroom instruction and appropriate assessment tools. Formerly EELB 630. Prerequisite: EELB 345 or consent of instructor. (4 units)

632. Mathematics Clinic
Administration of diagnostic instruments and assessment procedures to elementary school students, followed by prescription and initiation of remedial measures to strengthen the mathematics areas. Formerly EELB 632. 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. Formerly EELB 634. (4 units)

636. Advanced Science Methods
Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Formerly EELB 636. Prerequisite: consent of instructor. (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)

645. Instructional Strategies for Language Development
Assessment and implementation of instructional models and strategies for language development to enhance pedagogy and learning in K-12 schools. (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: admission to candidacy and consent 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

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)

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. Student teachers may take concurrently with EELB 533 or 534, EELB 539 and EELB 540B. Intern teachers may take concurrently with EELB 529 and 560B. If not taken concurrently with EELB 540B or 560B, then six hours of fieldwork will be required. 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. Student teachers may take concurrently with EELB 532, 539 and EELB 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. 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 English language learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 448. Student teachers may take concurrently with EELB 532, 539 and EELB 540B. Intern teachers may take concurrently with EELB 532, 539 and EELB 540B. Intern teachers may take concurrently with EELB 539 and 560C. If not taken concurrently with EELB 540B or 560C, then six hours of fieldwork will be required. 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 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. I. 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. II. 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. III. 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. (1-4 units)

545. Teaching Science in Elementary School
Intensive study of teaching science in elementary school. Exploration, analysis, implementation and interpretation of scientific process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

560. Supervised Intern Teaching in Multiple Subject
Full-time teaching in 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)

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. Also offered as ESEC 605; students may not receive credit for both. Prerequisites: EELB 312, EESL 536; EELB 313 or ESEC 333; and 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
Examinations of 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. (4 units)

639. Advanced Pedagogical Foundations for English Language Learners
Comprehensive study of various notions, 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)

640. The Education of K-12 English Language Learners
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)

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 strategies 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 interim 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. Prerequisites: (for CLAD certificate program only) EELB 312, or EESL 536; EELB 313 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 EDUCATION:
ENGLISH TO SPEAKERS OF OTHER LANGUAGES (EESL)

Upper Division

500. Introduction to Teaching English to Speakers of Other Languages
Practices in teaching English to second-language learners, including strategies for teaching speaking, listening, reading, writing, and grammar; survey of second-language acquisition theory and English language-development programs. (4 units)

501. Foundations of TESOL
Broad survey of fundamental principles underlying classroom practice across diverse settings. Extensive examination of educational practices for English learners from a global perspective, with a focus on the knowledge, skills, and dispositions to teach both English-language development (ELD) in US contexts and English as a foreign language (EFL) abroad. (4 units)

505. Differentiated Curriculum in TESOL
Simulation and classroom-based practice in teaching methods and materials for students across a broad range of learning styles and academic levels. Emphasis will be placed on developing a balanced approach to reading, writing, speaking, listening, and critical thinking skills. Strategies and implications for English learners at a variety of second-language-acquisition stages. (4 units)

514. 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. Formerly EESL 614. (4 units)
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)

524. Supervised Observation/Participation in Teaching English to Speakers of Other Languages
Observation/participation opportunities for candidates in English-as-a-second-language and English-as-a-foreign-language classrooms. (2 units)

525. Tutoring Methods in Teaching English to Speakers of Other Languages
Tutoring and small-group teaching of English to second-language learners, including strategies for tutoring in speaking, listening, reading, writing, and grammar. (2 units)

533. TESOL Crosscultural Teaching Practicum
Practicum in cultural practices in teaching English in English-as-a-foreign-language (EFL) settings. (2 units)

535. Survey of Methods in Teaching English as a Foreign Language
Overview of programs, curricula, and resources for the education of English learners in countries where English is taught using foreign-language-acquisition methodologies. Strategies for English language development with an emphasis on vocabulary acquisition, communicative language teaching, and awareness of sociocultural implications of target-culture immersion. (4 units)

536. Crosscultural Teaching
Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be offered through distance learning. Formerly EELB 536. (4 units)

540. Teaching Adult English Learners
Simulation and classroom-based practice in teaching and tutoring adult second-language learners, including strategies for English-for-special-purpose domains such as business and scientific English, as well as adult primary-language non-literates. (4 units)

543. Listening and Speaking Methods in TESOL
Survey of contemporary pedagogy for listening and speaking in English-as-a-second-language (ESL) and English-as-a-foreign-language (EFL) classrooms. In-depth analyses of purposes, audiences, and strategies for oral expression; including methods for pronunciation improvement and accent reduction in second-language acquisition. Formerly a topic under EESL 542. (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)

561. Cognition and Language Acquisition
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)

665. Creative Teaching in TESOL
Survey of creative teaching methods to enhance classroom second-language learning, including use of poetry, drama, art, and audio-video computer-assisted language-learning techniques. (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)

678. Studies in K-12 Classroom Discourse
Discourse analysis of instructional language use by students and teachers in K-12 classrooms, including specially adapted academic instruction and English-language development for English learners, with a focus on contemporary research and acquisition of research techniques. (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)

680. Practicum in Teaching English to Speakers of Other Languages (TESOL)
Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Students will use microteaching, structured reports of classroom visitations and observations, and commercially available videotaped case studies to examine and discuss classroom management, lesson design, and instructional delivery. (4 units)

685. 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. Formerly EESL 615. (4 units)

686. Advanced Research Methods in TESOL
Analysis of research in English-language development in the classroom, including sociocultural, cognitive, and behavioral approaches to instructional discourses and mediational techniques. Formerly EESL 664. (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)

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)

644. 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. Formerly EENV 542. Prerequisite: graduate standing or consent of instructor. (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. (4 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. (4 units)

652. Nature Study in Environmental Education
Strategies for designing and implementing nature study in educational settings. Formerly EENV 670L. (4 units)

654. Fundraising Fundamentals in Environmental Education
Techniques and methods for resource acquisition for environmental education programs. (4 units)

656. Water Education in Environmental Education
Strategies for design and implementation of water study in educational settings. (4 units)

664. Research in Environmental Education
Focus on recent developments in the field of environmental education research with emphasis on developing an introduction to a project/thesis and applicable literature review. Prerequisites: EENV 635 and consent of advisor. (4 units)

679. Fieldwork: Environmental Education
Field experiences apply academic skills including demonstration of leadership roles in curriculum planning, presentations and professional development related to environmental education. May be repeated as elective for a total of six units. Graded credit/no credit. Prerequisites: EENV 635 and consent of advisor. (2-4 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)

999. Comprehensive Examination
An assessment of the student's ability to integrate the knowledge of environmental education, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of program coordinator, in last quarter of coursework or completed coursework for the program, and a 3.0 grade point average or higher in courses in program plan. (0 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. (1-4 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 consent 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 consent 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)

COURSE OFFERINGS IN SCIENCE EDUCATION (EDSC)

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
Focus on research developments in science education including science learning, culture and gender in science learning, science teaching, curriculum and assessment in science, and science teacher education. Formerly EDUC 634. (4 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)

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, completion of course work in the program and in good academic standing. (0 units)
502. Special Topics for Undergraduates in Secondary Education
Issues and techniques in selected topics current in secondary education. This course is designed for the Integrated Teaching Track student. Senior status in the degree program is required. (2 units)

506. Curriculum and Instruction in Content Areas
Accessibility of secondary school content to all students from varied populations. Student evaluation, assessment and practice that provides equal access to content area in the secondary schools. Reviews and reflects on application of methodologies and strategies through micro-teaching. Formerly ESEC 505 and 508. Prerequisites: admission and good standing in the program or consent of program director.
- English (4 units)
- Foreign Languages (4 units)
- Life and Physical Sciences (4 units)
- Mathematics (4 units)
- Physical Education (4 units)
- Social Sciences (4 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 proficiency needed for success in secondary schools. Prerequisite: ESEC 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, and EELB 313 or ESEC 333. (4 units)

512. Assessment Seminar: Designing Instruction
Teaching Performance Assessment Task 2 - Designing Instruction which consists of Teacher Performance Expectations 1, 4, 6, 7, 8, 9 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

513. Assessment Seminar: Assessing Learning
Teaching Performance Assessment Task 3 - Assessing Learning which consists of Teacher Performance Expectations 3, 6, 7, 8, 9 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program or concurrent enrollment in Student Teaching or Internship Teaching Supervision. (2 units)

514. Assessment Seminar: Culminating Teaching Experience
Teaching Performance Assessment Task 4 - Culminating Teaching Experience which consists of Teaching Performance Expectations 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 and 13. Graded credit/no credit. Prerequisites: admission and good standing in the program as well as concurrent enrollment in Student Teaching or Intern Supervision. (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)

520. Teaching Performance Assessments
Graded credit/no credit.
A. Subject Specific. Task 1. Prerequisites: admission, good standing in the program and have successfully completed ESEC 407, 410, and 413 with a grade of "B" or better. (1 unit)
B. Designing Instruction. Task 2. Prerequisite or corequisite: ESEC 417, 506, 550A or 555 with a "B" or better. Corequisite: ESEC 550B or 570B. (1 unit)
C. Assessing Learners. Task 3. Prerequisite or corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or 570C. (1 unit)
D. Culminating Teaching Experiences. Task 4. Prerequisite or corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or 570C. (1 unit)

521. Instructional Strategies and Approaches to Middle Grade
Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. (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. (1-4 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. I. Prerequisite: enrollment in Single Subject Program. (6 units) B. II. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units) C. III. Prerequisite: satisfactory completion of ESEC 570B. (6 units) D. IV. Prerequisite: satisfactory completion of ESEC 570C. (6 units) E. V. Prerequisite: satisfactory completion of ESEC 570D. (6 units) F. VI. 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; EELB 313 or ESEC 333; and ESEC 511. (2 units)

622. Practicum in Middle Grade Education
Practicum for middle grade philosophies, objectives, and functions. Formerly ESEC 522. Prerequisites: ESEC 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)

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; 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

515. Language and Literacy for Children Under Five With Special Needs
An intensive study of early literacy and language skills including English as a second language, typical and atypical development, assessment, instruction, and guidelines as it relates to infants, toddlers, and young children who may be at-risk. (4 units)

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)

530. Introduction to Special Education
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)

531. Methods and Procedures in Special Education
Introductory teaching methods in special education. Policies and procedures related to the implementation of federal and state legislation governing the delivery of special education services. Formerly ESPE 529. Prerequisite/corequisite: ESPE 530. (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. (1-4 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.

610. Introduction to Autism Spectrum Disorders
Characteristics of the autism spectrum and related developmental disabilities; implications for education and treatment. Practicum in approved settings is required. Prerequisites: ESPE 530 and 531 and admission to the Special Education program; or admission to the Autism Added Authorization program and concurrent enrollment in ESPE 623A. (4 units)

611. Assessment Methods in Special Education
Data collection methods for eligibility for special education services, program planning, and program evaluation in the areas of academics, language, and social-emotional. Formerly ESPE 637. Prerequisites: ESPE 530 and 531; admission to the Special Education Program. (4 units)

612. Supportive Learning Environments for Students with Disabilities
Strategies for managing diverse special education classroom and service delivery settings. Planning and implementing positive behavior support and maintaining a supportive learning environment. Practicum in approved settings is required. Formerly ESPE 624. Prerequisites: ESPE 530 and 531; admission to the Special Education Program. (4 units)

613. Curriculum and Methods in Literacy Learning for Students with Disabilities
Differentiated teaching methods and specialized assessment in literacy learning for students with special needs, including English learners. Practicum in approved settings required. Formerly ESPE 655. Prerequisites: ESPE 530, 531, and 611, and admission to the Special Education program. (4 units)

614. Curriculum and Methods for Diverse Learners with Disabilities
Specialized assessment, instructional planning and teaching methods for English language acquisition. Consideration given to cultural characteristics of students, cultural transmission, and acculturation. Practicum in approved settings required. Formerly ESPE 660. Prerequisites: ESPE 530, 531, and 611, and admission to the Special Education program. (4 units)

620. Supervised Student Teaching in Special Education I
Supervised full time student teaching in a special education setting at a public school designated by topic area. Experiences in general education, grade/age levels, federal disability categories, and the continuum of services outlined by the credential authorization will be documented. Apply for admission to Supervision one quarter in advance of enrollment. Graded credit/no credit. Prerequisite: classified admission to the Special Education credential program.

A. Mild/Moderate Disabilities. Formerly ESPE 609A. Prerequisites/corequisites: ESPE 642 (for Preliminary credential candidates); ESPE 530, 531, 611 and 612, EELB 315 or 423 (for Level I credential candidates) (8 units)
B. Moderate/Severe Disabilities. Formerly ESPE 609C. Prerequisites/corequisites: ESPE 662 (for Preliminary credential candidates); ESPE 530, 531, 611 and 612, EELB 315 or 423 (for Level I credential candidates) (8 units)
C. Early Childhood Special Education. Formerly ESPE 609D. Prerequisite/corequisite: ESPE 672. (8 units)

621. Supervised Student Teaching in Special Education II
Supervised full time student teaching in a special education setting at a public school designated by topic area. Grade/age level experience must be different from the first supervised student teaching experience. Experiences in general education, federal disability categories, and the continuum of services outlined by the credential authorization will be documented. Transition plan for induction will be developed. Admission to Supervision as a student teacher required; apply for Supervision one quarter in advance of enrollment. Graded credit/no credit.

A. Mild/Moderate Disabilities. Formerly ESPE 679A. Prerequisites: grade of credit in ESPE 620A; completion of required credential coursework in the same quarter. Prerequisite/corequisite: ESPE 643 (for Preliminary credential candidates); ESPE 613 (for Level I credential candidates.) (8 units)
B. Moderate/Severe Disabilities. Formerly ESPE 679C. Prerequisites: grade of credit in ESPE 620B; completion of required credential coursework in the same quarter. Prerequisite/corequisite: ESPE 663 (for Preliminary credential candidates); ESPE 662 (for Level I credential candidates.) (8 units)
C. Early Childhood Special Education. Formerly ESPE 679F. Prerequisites: grade of credit in ESPE 620C; completion of required credential coursework in the same quarter. Prerequisite/corequisite: ESPE 673. (8 units)
622. Intern Teaching: Special Education
Full time teaching on an Education Specialist Internship credential in a special education public school setting designated by credential authorization. Must be repeated with a grade of Credit during each quarter of the internship program until completion of the credential objective for a minimum of 24 units. Graded credit/no credit.
A. Mild/Moderate Disabilities. Formerly ESPE 680A. Prerequisite: admission to the Education Specialist Internship Credential: Mild/Moderate Disabilities; consent of intern coordinator. (8 units)
B. Moderate/Severe Disabilities. Formerly ESPE 680B. Prerequisite: admission to the Education Specialist Internship Credential: Moderate/Severe Disabilities; consent of intern coordinator. (8 units)
C. Early Childhood Special Education. Formerly ESPE 680C. Prerequisite: admission to the Education Specialist Internship Credential: Early Childhood Special Education; consent of intern coordinator. (8 units)

623. Education Specialist Added Authorization Practicum
Observation and participation in selected programs for exceptional individuals required in addition to weekly seminars. Implementation of strategies and methods learned in corequisite coursework. Must be repeated for credit each quarter required in the designated Added Authorization program. Prerequisite: admission to the designated Education Specialist Added Authorization program.
A. Autism Spectrum Disorders I. Corequisite: ESPE 610. (4 units)
B. Autism Spectrum Disorders II. Prerequisites: a grade of "B" or better in ESPE 610 and 623A. Corequisite: ESPE 627. (4 units)
C. Early Childhood Special Education I. Corequisite: ESPE 672. (4 units)
D. Early Childhood Special Education II. Prerequisites: grade of "B" or better in ESPE 672 and 623C. Corequisite: ESPE 673. (4 units)

625. Collaboration and Consultation in Special Education
Competencies and skills for collaborative and consultative roles to develop partnerships with students, professionals, paraprofessionals, families, and community service personnel. Prerequisites: ESPE 530, 531, 611, and 612, and admission to the Special Education program. (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)

627. Education of Students with Autism Spectrum Disorders
Evidence base for methods used in educational settings for students in early childhood through grade 12 with autism spectrum disorders. Planning, implementing, and evaluating methods to teach social, language, behavioral, and learning skills. Practicum in approved settings is required. Prerequisites: ESPE 530, 531, 610, 611, and 612, and admission to the Special Education program; or ESPE 610 and 623A, admission to the Autism Added Authorization program, and concurrent enrollment in ESPE 623B. (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 I 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)

642. Methods in Mild/Moderate Disabilities I
Methods and differentiated instruction for students with mild to moderate disabilities including learning disabilities, language development, and data based decision-making. Prerequisites: ESPE 610, 611, 612, 613, and 614. (4 units)

643. Methods in Mild/Moderate Disabilities II
Strategies, methods, and materials as well as curriculum modification in subject matter content areas for students with mild to moderate disabilities. Prerequisite: ESPE 642. (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)

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. Seminar on Moderate/Severe Disabilities
Advanced seminar designed to study current issues and empirical research findings relating to the education of students with moderate and severe disabilities. Prerequisites: ESPE 530, 531, 611, 612, 651, and 652. (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. 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. Prerequisites: ESPE 530, 531, 611, 612, 613 and 656. (4 units)

662. Methods for Students with Moderate/Severe Disabilities I
Characteristics of students with moderate to severe disabilities and their implications for education; assessments for positive behavior support, instructional planning and progress monitoring; evidence-based instructional strategies for communication, social skills, and the core curriculum. Formerly ESPE 651. Prerequisites: ESPE 610 and 611. (4 units)

663. Methods for Students with Moderate/Severe Disabilities II
Movement, sensory, and specialized healthcare needs; augmented and alternative communication methods; transition planning and implementation strategies; case management for students with moderate to severe disabilities. Prerequisite: ESPE 662. (4 units)

667. Methods in Early Childhood Special Education I
Contemporary theoretical, philosophical, legal, and empirical influences in Early Intervention and Early Childhood Special Education. Screening and assessment of development and behavior for program development and instructional planning. Consideration of the rights and roles of the family, the needs of children with low incidence disabilities, and English learners in assessment and planning. Formerly ESPE 650. Prerequisites: ESPE 610, 611, and 612 and admission to the Special Education program; or admission to the Early Childhood Special Education Added Authorization program and concurrent enrollment in ESPE 623C. (4 units)

673. Methods in Early Childhood Special Education II
Intervention and instructional strategies that are responsive to the individual needs of students between the ages of birth and six years with disabilities (including children at risk and with low incidence disabilities). Special consideration of family concerns and priorities, models of service delivery, collaboration, and supportive learning environments. Formerly ESPE 665. Prerequisites: ESPE 610, 611, and 612 and admission to the Special Education program; or admission to the Early Childhood Special Education Added Authorization program and concurrent enrollment in ESPE 623D. (4 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, 611, 620, 635, 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 530, 531, 611, and 612.
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)

694. Special Education Leadership Evaluation and Outcomes
Presentation of the Professional Development Portfolio demonstrating that the candidate has met the California Commission on Teacher Credentialing (CTC) Standards for a Clear Professional Specialist Credential. Prerequisites: California Preliminary Specialist Credential in the same credential area, completion of Level I coursework, or completion of program requirements for the Mild to Moderate Intern Program, and consent of the Program Director. Eligibility: students who developed an induction plan and have implemented that plan for a minimum of 18 months are eligible. The Individual Induction Plan, Professional Development Portfolio, and non-University activities will be evaluated. May be repeated for credit by students in the Mild to Moderate Disabilities Intern Program and by candidates seeking an additional authorization. Candidates who participated in an approved Induction Program and/or seeking a first Specialist Credential should take ESPE 694. (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)

501. Foundations of e-Learning
Introduction to theoretical and practical foundations of e-Learning. Explorations of history, trends, current issues, and practices of e-Learning. (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. With program approval, students may take CSE 140 or 141 in lieu of ETEC 537. One hour lecture and two hours laboratory. Meets Level I competencies for the preliminary credential. (4 units)
541. E-Learning Design and Development
Examination and application of e-Learning design and development principles and practices. (4 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. (1-4 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)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

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. Prerequisite: ETEC 500 or consent of instructor. (4 units)

624. Website Design and Development
Planning, designing and developing dynamic websites for learning. Formerly a topic under ETEC 676D. Prerequisite: ETEC 500. (4 units)

625. Interactive Animation Design and Development
Planning, designing, and developing vector graphics, animation and interactive multimedia for learning. Formerly a topic under ETEC 676D. Prerequisite: ETEC 500. (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)

648. E-Learning Delivery and Evaluation
Examination of various models, strategies, and issues of e-Learning delivery. Exploration of assessment on student learning and e-Learning effectiveness. (4 units)

674. E-Learning Technology and Media
Examination of current technology tools and instructional methods for effective instruction on e-Learning. (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. (2-8 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)
EDUCATIONAL ADMINISTRATION

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;
4. One year of documented full-time teaching, counseling, or nursing experience in a school setting under a valid credential; substituting teaching does not apply;
5. Successful completion of the California Basic Educational Skills Test (CBEST);
6. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program. Normally, a student is expected to be working concurrently for a credential in administrative services.

Note for International Applications: A TOEFL requirement exists at this university.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter hours of course work, at least 12 of which must have been 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;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of the Comprehensive Evaluation in Educational Administration (EADM 692) or Master's Thesis in Educational Administration (EADM 699) which will complete the graduation writing requirement;
5. Any additional general requirements not cited above and listed on Page 368.

Degree Requirements (45 units)

1. EADM 601. Educational Leadership and Ethics (4)
2. EADM 602. Research Methods in Educational Administration (4)
3. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
4. EADM 610. Supervision and Evaluation of Teachers (4)
5. EADM 613. School Personnel Management (4)
6. EADM 619. Policy, Governance and Legal Aspects of Education (4)
7. EADM 620. Practicum in Educational Administration (1)
8. EADM 622. Curriculum, Instruction and Assessment (4)
9. EADM 625. School Finance and Business Management (4)
10. EADM 626A. Issues and Trends in School Administration: School Reform (1)
11. EADM 626B. Issues and Trends in School Administration: Common Core Standards (1)
12. EADM 626C. Issues and Trends in School Administration: S.T.E.M. Programs (1)
13. EADM 626D. Issues and Trends in School Administration: Special Education (1)
14. Four units chosen from:
   EADM 621A. Fieldwork in Educational Administration I (2)
   EADM 621B. Fieldwork in Educational Administration II (2)
   EADM 630A. Internship Fieldwork in Educational Administration (2)
   EADM 630B. Internship Fieldwork in Educational Administration (2)

Culminating Experience (4 units)

1. Students must choose one of the following:
   - Comprehensive Examination
   - EADM 692. Comprehensive Evaluation in Educational Administration (4)
   - EADM 999. Comprehensive Examination (0 units)
   - Thesis
   - 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)

514. School Business Management and Service Functions
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.
A. Purchasing, Warehousing and Inventory (2 units)
B. Risk Management (2 units)
C. Facilities Planning, Construction (2 units)
D. Computer Services in Business Functions (2 units)
E. Maintenance, Operations and Transportation (2 units)
F. Employee Supervision (2 units)

519. Legal Aspects of Classified Personnel Administration
Current laws and court decisions affecting public school education with a focus on classified personnel administration and laws of California. (4 units)

525. Classified Personnel Administration
Recruitment, selection, induction, training, evaluation and contract negotiations involving classified employees under merit and non-merit systems. (4 units)

542. Seminar in Educational Administration
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (1-4 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 development 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. (1 unit)

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 601 and 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)

613. School Personnel Management
Recruitment, selection and evaluation of personnel at all levels of employment, including progressive assistance, conflict management, and file building. Laws and policy development in relationship to school district and collective bargaining. Prerequisites or corequisites: EADM 601 and 603 and admission to the Educational Administration program. (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. (1 unit)

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. (1 unit)

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. I. Prerequisites: EADM 601, 603, 610, 620, advancement to candidacy and consent of the program coordinator. (2 units)
B. II. 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)
625. School Finance and Business Management
Economics of school finances; evolution of the California School Finance Programs; fiscal relationship to county, state and federal agencies; school budget procedures; school accounting; financial management of categorical and special education funds; and the planning, financing, and management of school facilities. Formerly EADM 624. Prerequisites or corequisites: EADM 601 and 603 and admission to the Educational Administration program. (4 units)

626. Issues and Trends in School Administration
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.
A. School Reform (1 unit)
B. Common Core Standards (1 unit)
C. S.T.E.M. Programs (1 unit)
D. Special Education (1 unit)

630. Internship Fieldwork in Educational Administration
Field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option.
A. Formerly EADM 630. Prerequisite: consent of program coordinator. (2 units)
B. May be repeated up to a maximum of 10 units. Prerequisites: EADM 630A and consent of program coordinator. (2 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 requirement for or can be taken concurrently with EADM 664, 667, 670, 672, 675, and 678. Prerequisites: admission to Professional Administrative Services Credential program and consent 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 consent 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 consent 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 consent 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 consent of program coordinator. (3 units)

675. School Business and Facility Management
Seminar on trends and issues in school finance with emphasis on current and innovative procedures including development of a site-based budget; fiscal issues, attendance and student activity accounting; strategic planning; and the planning and utilization of school facilities. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or consent 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 consent 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 consent 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. (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)

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)

687. Professional Development and Assessment
Advanced study and analysis of the California Professional Standards for School Leaders which will lead to the Professional Administrative Services Clear Credential. Focus will be on knowledge, skills and dispositions of the students as they relate to professional development. Prerequisite: consent of coordinator. (4 units)

688. Professional Development and Evaluation
Final summative evaluation of the students' understanding and application of the California Professional Standards for School Leaders as verified by a standards based portfolio. Prerequisite: EADM 687. (4 units)

692. Comprehensive Evaluation in Educational Administration
Review and preparation for the written comprehensive examination. Prerequisites EADM 601, 603, 607, 610, 613, 617, 620, 621A and 621B (or 630), 622, and 625. Prerequisite or corequisite: advancement to candidacy and permission of program coordinator. Corequisite: EADM 999. (4 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, 607, 610, 619, 621A, 621B, 622, and permission 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 masters program, and in good academic standing. (0 units)

Doctoral-level courses

730. Politics, Legislative Action and Educational Change
Processes governing the development of educational policy, including significant laws, legal principles, recent litigation, board relationships and labor management relations. Focuses on connections between legislative and judicial action and the social, political and economic forces affecting education. Covers the interactions and relationships between public and charter schools. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

732. Fiscal Planning and Facilities Management
Methods of financing public education. Identifies budgeting and accounting techniques used by school districts in support of the instructional process and considers legal requirements and public reactions to the financing of education and resource allocation to achieve student outcomes. Explores facilities issues. Four hours lecture and two hours practicum. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (5 units)

734. Advanced Human Resource Management
Examines issues of conflict/resolution, legal issues, harassment, affirmative action, labor relations, state and federal laws, staffing, staff development, training, collective bargaining, team building and coaching. Four hours lecture and two hours practicum. Prerequisites: EADM 730 and 732. (5 units)

736. Instructional Leadership and Learning Strategies
Covers standards, curriculum, instructional strategies, supervision, trends, and innovations. Prerequisites: EADM 730 and 732. (4 units)

738. Assessment and Evaluation
Assessment and evaluation of student learning, tests and measurements, measurement theory and using data for improvement. Four hours lecture and two hours practicum. Prerequisites: EADM 734 and 736. (5 units)

760. Foundations and Introduction to Community College
Examines the evolution and mission of community colleges in California. Covers the history of community colleges, the Master Plan, the fiduciary duties, the history of curriculum and the relationship of community colleges to P-12 and higher education. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

762. Trends and Issues in Community Colleges
Examines assessment, accountability, changing demographics, community outreach, legal issues, curricular issues, and transfer/articulation issues. Emphasizes trends and issues, past and present. Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. (4 units)

764. Instructional Methodologies and Strategies in Community Colleges
Explores the socio-cultural context of education in community colleges and the diversity of learners. Examines the use of instructional strategies that integrate technology to support student success. Discusses current theories of teaching, learning, and assessing adults. Four hours lecture and two hours practicum. Prerequisites: EADM 760 and 762. (5 units)

766. Community College Finances and Fiscal Resources
Examines external funding sources, grant writing, full-time faculty and adjunct-faculty issues, facilities, FTEs/enrollment management, human resource implications, salary schedules, state and federal laws, harassment policies, Average Daily Attendance (ADA) and diversity. Four hours lecture and two hours practicum. Prerequisites: EADM 760 and 762. (5 units)

768. Community College Leadership, Governance, Policy and Politics
Examines administrator and board relationships, administrator and faculty relationships, school and community relationships, bargaining unit, labor management relations, conflict mediation and conflict resolution. Four hours lecture and two hours practicum. Prerequisites: EADM 764 and 766. (5 units)
EDUCATIONAL LEADERSHIP

Doctor of Education in Educational Leadership

Office of Doctoral Studies
College of Education Building, Room 364
(909) 537-5651 edd.csusb.edu

Director: Bonnie Piller

DOCTOR OF EDUCATION IN EDUCATIONAL LEADERSHIP

Requirements (94 units)

The doctoral program in Educational Leadership is a rigorous, research-based program which prepares PreK-12 and Community College leaders who can apply their knowledge base with the critical skills of analysis, inquiry, research and evaluation to contribute to the study, development, and implementation of educational reforms.

Admission to the Program

The Executive Board, with recommendations from the Admissions Committee will oversee the specific admissions processes for the program, review candidate applications and make admissions decisions. The graduate admissions standards of the university shall apply to all Ed.D. candidates.

The Ed.D. program requires the following of applicants for admission to the doctoral program:

1. A completed application;
2. An earned baccalaureate degree and master’s degree from an accredited institution of higher education with a cumulative grade point average of 3.0 or higher in upper-division and graduate study combined;
3. Official transcripts from each college or university attended since high school graduation (no exceptions);
4. Submission of Graduate Record Examination (GRE) scores from three sections of the General Test taken within the last five years with a recommended total score of 1000 or higher;
5. Three letters of recommendation from professionals in the field attesting to the leadership ability and scholarship potential of the candidate; included shall be one letter from a school site or university administrator and at least one letter from a university faculty member preferably with a doctoral degree that addresses the applicant’s potential for academic success in a doctoral program. Letters must be sent directly to the Office of Doctoral Studies;
6. A written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges/Institutes of higher education in California;
7. A written detailed plan indicating his/her plan for meeting the demands of the program and his/her professional responsibilities.
8. Sufficient preparation and experience to benefit from the program;
9. Demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;
10. Demonstrated academic excellence, problem-solving ability, technology proficiency, and interest in critically assessing and bringing about improvements to current educational policies and practices; and
11. A personal interview.

Requirements for Graduation

1. A minimum of 76 units of the total 94 units required must be at the doctoral (700) level. The remaining 18 units must be at the 500-700 level;
2. At least 70 units required for the degree shall be completed in residence;
3. The overall grade point average must be at least a 3.0, and grades in individual courses must be a “C” or better. Courses in which no letter grade is assigned shall not be used in computing the grade point average. Students with a grade point average below 3.0 in two successive terms will be disqualified from the program;
4. The Ed.D. program is designed to be completed in three calendar years, including three required summer sessions. However, students are allowed five years for completion. Extensions of up to two additional years may be granted if there are compelling individual circumstances;
5. After completion of all course work and successful completion of the qualifying examination, the student will advance to candidacy and undertake the dissertation. No more than 16 quarter units shall be allowed for a dissertation;
6. Continuous enrollment is a requirement of the program. If extenuating circumstances require that the student leave the program for a period of time, the student must file a Leave of Absence. The doctoral faculty will consider an adjusted schedule and an individualized plan;
7. Ed.D. students may be permitted to repeat one course one time only by petition to and approval of the Ed.D. Faculty Program Assessment and Evaluation Committee. 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 post baccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted. Subsequent repeats of a course will be averaged.
8. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. Non-academic grievances and complaints 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.

Examinations

The Ed.D. Program includes rigorous classes, a qualifying examination, and written and oral defense of both a Dissertation Proposal and Dissertation, passage of which is required for student progression to program completion and degree conferral

1. Qualifying Examination.
   The qualifying examination is based on the student’s approved literature review and is a rigorous assessment of student knowledge in response to questions generated by the Qualifying Examination Committee.
2. Written and Oral Qualifying Examinations.
   The qualifying examinations are administered at a time in the program sequence when the candidate’s mastery of the majority of the core leadership and methodological elements can be fairly evaluated and when the candidate is ready to begin his/her dissertation research.
   Once students have passed their qualifying examination, a proposal for the dissertation is written and defended orally during the third year in the program. Once the student’s proposal (both written and oral) has been approved, they bridge the transition from coursework to the actual writing of the dissertation.
   The final step in the program is the written dissertation and oral defense.
   The dissertation research will focus on a significant professional problem or issue and will have the potential to contribute, generally or in the context of a particular educational institution, to the improvement of public PreK-12 or community college education.
Work in support of the dissertation is embedded throughout the Ed.D. curriculum. However, formal dissertation research is subject to (a) passage of the dissertation proposal examination which constitutes formal approval for the candidate to proceed with the dissertation research as proposed and (b) approval of human subjects by the Institutional Review Board. The dissertation must demonstrate a strong scholarly and professional foundation of knowledge on the part of the candidate and must demonstrate the candidate’s ability to apply this knowledge to rigorous study of PreK-12 or community college education. The student must submit his/her dissertation proposal for approval following the procedures and format established by the campus program faculty. The dissertation proposal will contain, at a minimum, a description of the problem, a review of the relevant literature, a statement of the research question, and a description of the research methodology. The proposal must contain either (a) materials that have already been submitted to the Institutional Review Board regarding the proposed dissertation research or (b) materials completed for submission to the Institutional Review Board to meet human subjects requirements.

The dissertation proposal examination is ordinarily conducted by a three member committee that includes (a) two tenured or tenure-track members of the Ed.D. program faculty and (b) one member from the affiliated core faculty. The committee reviews the dissertation proposal and communicates formally in writing to the student its (a) approval, (b) approval with modifications, or (c) lack of approval. In the case of approval with modifications or lack of approval, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the proposal, the committee will review the revised proposal and communicate the outcome to the student in writing. The student must receive written approval of the proposal by the committee and written notification by the Institutional Review Board that human subjects review requirements have been met in order to proceed with the formal conduct of the dissertation research.

The dissertation is the written product of the research undertaken in accordance with the approved proposal. The dissertation will state the research problem and question(s), describe the primary theoretical perspectives of the research, identify the major assumptions, explain the significance of the undertaking and relate it to the relevant scholarly and professional literature, describe the research methods, the sources for and methods of gathering data, the approaches used for analyzing the data, the findings based on the analysis of the data, and the conclusions or recommendations. The dissertation will reflect original analysis and independent, critical thought.

Final Examination (Oral)
The student is required to present the proposal orally to the committee and respond to committee members’ questions about the proposal. The proposal defense must be completed prior to the end of the first quarter (fall quarter) in Year III of the program. This examination will be administered by the dissertation committee. Unanimous agreement of the dissertation committee is required for approval of the dissertation and recommendation that the Ed.D. degree be conferred. In the event that the dissertation committee requires substantive changes to the dissertation, the final vote of the committee will be postponed until the changes are completed. Submission of the approved dissertation is the last step in the program leading to the awarding of the Ed.D. degree. The dissertation must be submitted by the specified deadline. The dissertation format must conform to CSUSB's approved dissertation manuscript requirements as outlined in the Student Handbook. The final copy of the dissertation must be approved by the dissertation committee and the Office of Graduate Studies.

Degree Requirements (94 units)
1. EDUC 700. Scientific Inquiry (4)
2. EDUC 702. Foundations of Education and Leadership (5)
3. EDUC 705. Organizations and Leadership (4)
4. EDUC 707. Quantitative Methods (4)
5. EDUC 709. Diversity and Equity in Educational Administration: School Districts and Community Colleges (4)
6. EDUC 712. Qualitative Methods (4)
7. EDUC 714. Educational Systems as Cultural and Social Systems (4)
8. EDUC 718. Strategic Planning, Accountability and Change (5)
9. Four units chosen from:
   EDUC 720. Advanced Quantitative Research Methods (4)
   EDUC 722. Advanced Qualitative Research Methods (4)
10. EDUC 726. Ethical Leadership and Decision-Making in Education (4)
11. Eight units at the master's level which relate to the student's area of dissertation study chosen in consultation with the student's dissertation chair and the program director.
12. Optional: Required courses must be completed before these units can be taken:
   EDUC 780. Special Topics in Educational Leadership (1-4)
   EDUC 795. Independent Study (2-4)
Specialization (23 units)
Students must take all courses within one of the following specializations:

P-12 Specialization (23 units)
EADM 730. Politics, Legislative Action and Educational Change (4)
EADM 732. Fiscal Planning and Facilities Management (5)
EADM 734. Advanced Human Resource Management (5)
EADM 736. Instructional Leadership and Learning Strategies (4)
EADM 738. Assessment and Evaluation (5)

Community College Specialization (23 units)
EADM 760. Foundations and Introduction to Community College (4)
EADM 762. Trends and Issues in Community Colleges (4)
EADM 764. Instructional Methodologies and Strategies in the Community College (5)
EADM 766. Community College Finances and Fiscal Resources (5)
EADM 768. Community College Leadership, Governance, Policy and Politics (5)

Dissertation (21 units)
1. EDUC 790. Research Seminar (1) for a total of (5)
2. EDUC 799. Dissertation (2-6 units) for a total of (16)

NOTE: the Community College Track will not be offered during the 2012-14 academic year.

See Page 459 for EDUC course descriptions and Page 478 for EADM course descriptions.
ENGLISH

Master of Arts in English Composition
with concentrations in:
English Composition
English Literature
Applied Linguistics and Teaching English as a Second Language

Master of Fine Arts in Creative Writing
with concentrations in:
Fiction
Poetry

Certificate Program
Teaching English as a Second Language

Department of English
University Hall, Room 334
(909) 537-5824 english.csusb.edu

FACULTY: Jennifer Andersen, Mary Boland, James Brown, David Carlson, Rong Chen, Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Parastou Feiz, Ellen Gil-Gomez, Brenda Glascott, Carol Haviland (Emeritus), Holly Henry, Sunny Hyon (Chair), Sandra Kamusikiri, Chad Luck, Jessica Luck, David Marshall, Susan Meisenhelder (Emeritus), Kevin Moffett, Julie Paegle, Renee Pigeon, Luz Elena Ramirez, Jacqueline Rhodes, Karen Rowan, Treadwell (Ted) Rumli II, DeShea Rushing, Wendy Smith, J. Chad Sweeney, Caroline Vickers, Salaam Yousif

MASTER OF ARTS IN ENGLISH COMPOSITION
Requirements (48 units) (see Addendum for program changes)

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 Applied Linguistics and 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 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. Note: Effective Fall 2010, students may not be concurrently enrolled in the M.A. in English Composition and M.F.A. in Creative Writing.

Admission to the Program
To apply for admission to the English Composition Program, applicants must have all their transcripts forwarded to the Office of Graduate Admissions, CH-123, 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.

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Application and other materials must be received by</th>
<th>For decision contact the Graduate coordinator after</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2012</td>
<td>July 1, 2012</td>
<td>Aug. 1, 2012</td>
</tr>
<tr>
<td>Fall 2013</td>
<td>July 1, 2013</td>
<td>Aug. 1, 2013</td>
</tr>
<tr>
<td>Fall 2014</td>
<td>July 1, 2014</td>
<td>Aug. 1, 2014</td>
</tr>
</tbody>
</table>

A student who meets all entrance requirements except one or more course prerequisites or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions (such as taking or retaking prerequisite courses) within a specified period of time. Prerequisite courses cannot be counted toward the units required for the master's degree.

The specific requirements for admission as a classified graduate student in the English Department are:

1. A grade point average of 3.0 ("B") in all undergraduate upper-division courses;
2. Applicants who do not possess a bachelor's degree from a post-secondary institution in a country where English is the principal language of instruction must receive a minimum score of 575 (computer-based score of 233 or internet-based score of 90) on the Test of English as a Foreign Language (TOEFL);
3. Three letters of recommendation supporting the student's application. Letters should be from people able to make relevant comments on the student's likely success in English Composition with a Concentration in Composition, English Literature, or Applied Linguistics and 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 Applied Linguistics and Teaching English as a Second Language;
5. One writing sample (5-10 pages) that reflects the student's ability to write in edited English a balanced, well-reasoned argument or a clear, coherent presentation of information, such as a college term paper or a work-related report;
6. Fulfillment of the graduate entrance writing requirement by passing, with a "B" (3.0) or better, ENG 306 (or an equivalent course) or the Writing Requirement Equivalency Exam (WREE), within seven years prior to acceptance into the program. Students who do not satisfy this requirement may be conditionally classified and required to take or repeat the course or exam;
7. The following undergraduate courses or their equivalent with a minimum grade of "B" in each, taken in conjunction with a major in English or some other major:
   A. For the Concentrations in English Composition and English Literature:
      1. ENG 311. The English Language
      2. One of the following:
         ENG 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

4. ENG 385. Literary Theory and Criticism
5. One upper-division course in British literature.
6. One upper-division course in American literature.
7. One upper-division course in ethnic literature, literature of diversity, or literature by women.

B. For the Concentration in Applied Linguistics and 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;
2. Completed at least 16 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the Graduate Coordinator.

Requirements for Graduation
1. A minimum of 48 quarter units of acceptable graduate-level work in the formal program, with no fewer than 35 completed at this university and with at least 34 units gained from 600-level courses in English. Students must gain approval in advance from the Graduate Coordinator to count 300-, 400- or 500-level courses as electives;
2. Advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work and research fulfilling the requirements of the student's concentration and grades of "C" (2.0) or better in all courses in the program;
4. For students in the English Composition Concentration and English Literature Concentration, demonstrated minimal competence in a language other than English at the level of a foreign language 103 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,
5. For students in the Applied Linguistics and 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 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 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 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. 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 600. Critical Approaches to Literature (4)
2. ENG 609. Perspectives on Research (4)
3. ENG 612. Contemporary Composition and Discourse Theory (4)
4. ENG 613. Seminar in Rhetoric and Composition (4)
5. 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)
6. Four units chosen from:
   - ENG 633. The Western Rhetorical Tradition I (4)
   - ENG 634. The Western Rhetorical Tradition II (4)
7. Twelve units chosen from:
   - ENG 621. Approaches to Imaginative Writing (4)
   - ENG 625. TESL Methods and Materials for Listening and Speaking (4)
   - ENG 626. TESL Methods and Materials for Reading and Writing (4)
   - ENG 630. Writing Center Studies (4)
   - ENG 631. Approaches to Professional 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)
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 600. Critical Approaches to Literature (4)
2. ENG 609. Perspectives on Research (4)
3. ENG 612. Contemporary Composition and Discourse Theory (4)
4. Four units chosen from:
   - ENG 615. Discourse Analysis: Theories and Applications (4)
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)

Applied Linguistics and 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 612. Contemporary Composition and Discourse Theory (4)
   ENG 633. The Western Rhetorical Tradition I (4)
   ENG 634. The Western Rhetorical Tradition II (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. ENG 626. TESL Methods and Materials for Reading and Writing (4)
9. Four units chosen from:
   ENG 630. Writing Center Studies (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)
11. ENG 695. Thesis Proposal/Comprehensive Examination 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, or applied linguistics and 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);
3. Submit the Thesis Proposal and annotated bibliography to the full 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 quarter 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.
MASTER OF FINE ARTS IN CREATIVE WRITING

Requirements (72 units)

The Master of Fine Arts (M.F.A.) in Creative Writing is a two-year program offered to writers of considerable promise and commitment in the genres of poetry and fiction writing. A terminal studio arts degree, the M.F.A. assumes that the best education for the artist includes training in literature and extensive practice in the craft of poetry, or the short story and novel. For most college-level teaching positions in Creative Writing, the M.F.A. is the preferred terminal degree. The degree prepares students for career opportunities in editing at publishing firms, newspapers and magazines, professional writing, and working at foundation and arts organizations. The second year of this 72-unit program is heavily concentrated on the final development of a book-length manuscript of publishable quality.

The M.F.A. program has two concentrations: Poetry and Fiction. Students in either concentration must choose the Teaching Focus or the Literature Focus. The Teaching Focus allows students to study instructional approaches in the areas of creative writing and composition for community college and university settings. The Literature Focus allows students to take courses in the study of fiction, poetry, drama and creative nonfiction. Note: Effective Fall 2010, students may not be concurrently enrolled in the M.A. in English Composition and the M.F.A. in Creative Writing.

Admission to the Program

To apply for admission to the M.F.A. Program, applicants must have all of their transcripts and the Postbaccalaureate Graduate Application form forwarded to the Office of Admissions and Student Recruitment. In addition to meeting the general requirements for admission to the university, a student must satisfy the following requirements in order to be admitted with classified graduate standing:

1. Admission to the M.F.A. Program is based largely on the quality of the writing sample(s) submitted with the application. Students must choose a concentration in Fiction or Poetry. Applicants must apply via CSUMentor. For additional information go to english.csusb.edu. Students who are admitted must begin the program in the following Fall quarter;

2. The applicant must submit the following:
   A. A sample of creative work consisting of ten poems or two short stories or a short story and a novel chapter. The poetry submissions should not exceed twenty pages; the prose submissions should not exceed thirty pages;
   B. An autobiographical statement in which the applicant states his or her literary and academic goals;
   C. Three letters of recommendation which describe the applicant's maturity as a student writer who can receive and give constructive criticism, and his or her ability to be academically successful in the M.F.A. program.

The sample of creative writing, the autobiographical statement, and the letters of recommendation should be sent directly to the coordinator of the M.F.A. Program, English Department, CSUSB;

3. The following undergraduate courses or their equivalents with a minimum grade of "B" in each, taken in conjunction with a major in English or some other major:
   1. ENG 311. The English Language
   2. ENG 385. Literary Theory and Criticism
   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

4. Two upper-division courses in literature;
5. One of the following:
   ENG 317. Introduction to Creative Writing: Poetry
   ENG 318. Introduction to Creative Writing: Fiction

A student who has not met one or more of the course prerequisites above or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions before beginning the M.F.A. program with their cohort in the Fall quarter. If conditionally classified students do not meet the conditions, they cannot begin taking the M.F.A. sequence of courses, which start each Fall quarter, and they must reapply to the program;

4. The Graduate Record Examination is not required;
5. The graduate entrance writing requirement if fulfilled 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;

6. Applicants who do not possess a bachelor's degree from a post-secondary 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).

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Completed at least 36 units of coursework required by the program, with a minimum grade point average of 3.0 and no grade lower than "B-" in any course in the program; (Students will be permitted to repeat and discount only one course to achieve these results.)

2. Completed at least half of the master’s project, verified by the M.F.A. coordinator;

3. Filed a program plan approved by the M.F.A. coordinator;

Requirements for Graduation

1. Students must have a minimum of 72 quarter units of graduate-level work in the M.F.A. program with a minimum of 60 units completed in residence at this university;

2. Students must gain approval in advance from the M.F.A. Coordinator to count 400- or 500-level courses as electives;

3. Students must be advanced to candidacy;

4. Students must have a grade point of average of at least 3.0 ("B") in the program's coursework;

5. Students meet the graduation writing requirement with the successful completion of the master's project;

6. Students must file a Leave of Absence to preserve their current catalog rights if they are going to be absent from the program one or more quarters;

7. 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. 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 M.F.A. coordinators, regardless of the grade originally earned. Petitions to waive this requirement will not be approved.

Degree Requirements (72 units)

Fiction Concentration (72 units)

1. ENG 507. Advanced Creative Writing: Poetry (4)

2. ENG 513. Advanced Creative Writing in Specialized Genres (4) (may be repeated as topics change)
3. ENG 608. M.F.A. Workshop in Fiction (4) Must be completed in each of the six quarters of the program, for a total of (24)
4. ENG 621. Approaches to Imaginative Writing (4)
5. ENG 622. Creative Writers on Writing (4)
6. ENG 688. Master’s Project Seminar in Fiction (4) (Must be completed Fall and Winter quarters of the second year of the program, for a total of (8)

Students must complete either the Teaching Focus or the Literature Focus for a total of twenty-four units.

Courses completed for the B.A. degree may not be counted towards the M.F.A. Students must take additional courses, in consultation with their advisor, toward their M.F.A. degree for a total of seventy-two units.

**Teaching Focus**

7. ENG 612. Contemporary Composition and Discourse Theory (4)
8. Twelve units chosen from:
   - ENG 510. English in the Secondary Classroom (4)
   - ENG 511. Creative Writing in the Secondary Classroom (4)
   - ENG 626. TESL Methods and Materials for Reading and Writing (4)
   - ENG 630. Writing Center Studies (4)
   - ENG 657. Sites of Praxis (4)
   - ENG 658. Computers and Writing: Literacy and Technology (4)
   - ENG 660. Issues in Teaching College Composition (4)
   - ENG 670. Creative Writing Internship (4)

Electives must be approved in advance by the M.F.A. coordinators. Four units of electives can be outside of the English Department.

**Literature Focus**

7. ENG 600. Critical Approaches to Literature (4)
8. Twelve units chosen from:
   - ENG 515. Senior Seminar in Literature (4) (may be repeated as topics change)
   - ENG 543A. Literary Production (4)
   - ENG 543B. Literary Production (4)
   - 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)
   - ENG 670. Creative Writing Internship (4)

Four units of electives can be outside of the English Department. Electives must be approved in advance by the M.F.A. coordinators.

** Poetry Concentration (72 units)**

1. ENG 508. Advanced Creative Writing: Fiction (4)
2. ENG 513. Advanced Creative Writing in Specialized Genres (4) (may be repeated as topics change)
3. ENG 607. M.F.A. workshop in Poetry (4) Must be completed in each of the six quarters of the program, for a total of (24)
4. ENG 621. Approaches to Imaginative Writing (4)
5. ENG 622. Creative Writers on Writing (4)
6. ENG 687. Master’s Project Seminar in Poetry (4) Must be completed Fall and Winter quarters of the second year of the program, for a total of (8)

Students must complete either the Teaching Focus or the Literature Focus for a total of twenty-four units.

Courses completed for the B.A. degree may not be counted towards the M.F.A. Students must take additional courses, in consultation with their advisor, toward their M.F.A. degree for a total of seventy-two units.

**Teaching Focus**

7. ENG 612. Contemporary Composition and Discourse Theory (4)
8. Twelve units chosen from:
   - ENG 510. English in the Secondary Classroom (4)
   - ENG 511. Creative Writing in the Secondary Classroom (4)
   - ENG 626. TESL Methods and Materials for Reading and Writing (4)
   - ENG 630. Writing Center Studies (4)
   - ENG 657. Sites of Praxis (4)
   - ENG 658. Computers and Writing: Literacy and Technology (4)
   - ENG 660. Issues in Teaching College Composition (4)
   - ENG 670. Creative Writing Internship (4)

Electives must be approved in advance by the M.F.A. coordinators. Four units of electives can be outside of the English Department.

**Literature Focus**

7. ENG 600. Critical Approaches to Literature (4)
8. Twelve units chosen from:
   - ENG 515. Senior Seminar in Literature (4) (may be repeated as topics change)
   - ENG 543A. Literary Production (4)
   - ENG 543B. Literary Production (4)
   - 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)
   - ENG 670. Creative Writing Internship (4)

Four units of electives can be outside of the English Department. Electives must be approved in advance by the M.F.A. coordinators.

**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. Candidates must 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. See Page 60 for additional certificate information.

**Certificate in Teaching English as a Second Language (TESL)**

**Admission to the Certificate**

Contact the English Department graduate coordinator for information about the certificate program.

1. Postbaccalaureate standing;
2. A minimum grade point average of 3.0 in undergraduate upper-division coursework;
3. A minimum score of 575 (computer-based score of 233; internet-based score of 90) on the Test of English as a Foreign Language (TOEFL) for students who do not possess a bachelor's degree from a postsecondary institution in a country where English is the principal language of instruction;
4. Completion of ENG 311 with a grade of "B" (3.0) or better.
Recommendation for the Certificate
1. Completion of the certificate coursework with a minimum grade point average of 3.0.
2. Completion of the certificate within a seven year period. Students who have taken any required course that expires because it exceeds the seven year limitation will be required to retake the course or its equivalent, as designated by the English Department graduate coordinator. Petitions to waive this requirement will not be approved.

Certificate Requirements (30 units)
1. ENG 312. Theories of Language Acquisition and Learning (4)
2. ENG 420. English Grammar I (4)
3. ENG 524. Sociolinguistics (4)
4. ENG 619. Second Language Acquisition (4)
5. 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)
6. ENG 664. Internship in ESL Teaching (2)
7. Eight units chosen from:
   - ENG 523. English Grammar II (4)
   - ENG 615. Discourse Analysis: Theories and Applications (4)
   - ENG 616. Contrastive Rhetoric (4)
   - ENG 617. Linguistic Pragmatics (4)
   - ENG 625. TESL Methods and Materials for Speaking and Listening (4) if not used in category 5
   - ENG 626. TESL Methods and Materials for Reading and Writing (4) if not used in category 5

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. May be repeated with consent of M.F.A. graduate poetry coordinator. 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. May be repeated with consent of M.F.A. graduate fiction coordinator. 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. 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 Secondary 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. May be repeated for a total of 8 units. Prerequisite: ENG 317 or 318 with consent of instructor or graduate coordinator. (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)

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)

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)

543. 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 and edit, and proof read poems, short stories, artwork and plays. ENG 543A, 543B, and 543C may each be taken once for credit. Prerequisite: ENG 507 or 508; or current enrollment in the M.F.A. in Creative Writing; or consent of instructor. (4 units)
A. Solicitation of submissions; selections of materials; gathering, ranking and editing of submissions to the campus literary journal. (4 units)
B. Production, layout, design and editing of the literary journal. (4 units)
C. Publication process, organization of readings, and promotion of new issue of literary journal. (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 written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (2-5 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. (2-5 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

600. Critical Approaches to Literature
Study and practice of various critical approaches after the New Criticism, such as deconstructionism, feminism, reader response, and new historicism, with particular attention to their assumptions about the meaning and function of literature. Formerly ENG 650. Prerequisite: ENG 385 or consent of instructor. (4 units)

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. Prerequisite: ENG 600 or consent of instructor. (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.) Prerequisite: ENG 600 or consent of instructor. (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. Prerequisite: ENG 600 or consent of instructor. (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. Prerequisite: ENG 600 or consent of instructor. (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)

607. M.F.A. Workshop in Poetry
Graduate-level workshop in poetry with critical discussion of students' work and of poetry from established writers. Students generate new poems for each workshop and work toward developing a book-length manuscript. Students must complete the workshop each quarter of the program for a total of 24 units. Prerequisite: admission to the M.F.A. in Creative Writing, Poetry Concentration. (4 units)

608. M.F.A. Workshop in Fiction
Graduate-level workshop in fiction with critical discussion of students' work and of narratives from established writers. Students generate new work for each workshop and work toward developing a book-length manuscript. Students must complete the workshop each quarter of the program for a total of 24 units. Prerequisite: admission to the M.F.A. in Creative Writing, Fiction Concentration. (4 units)

609. Perspectives on Research
Critical study of research methods and resources in the fields of composition, linguistics and literature. (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. Prerequisite: ENG 311 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. Prerequisite: ENG 311 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. Prerequisite: ENG 311 or consent of instructor. (4 units)

618. Stylistics
Examination of various linguistic and rhetorical devices that help writers of literary text to convey their messages and to produce intended effects. Prerequisite: ENG 311 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. Prerequisite: ENG 311 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. Prerequisite: ENG 612 or consent of instructor. (4 units)
622. Creative Writers on Writing
Advanced study in the process of writing and publishing. Examines the artistic, practical and professional aspects of life as a working novelist, poet, screenwriter, or essayist. Other areas covered include literary and commercial magazines, the film industry, and literary agents. Prerequisites: ENG 621 and either ENG 687 or 688. (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 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)

630. Writing Center Studies
Examination of major texts and issues in contemporary writing center studies, including writing center theory, scholarship, and research; tutoring practice; and administration. Those completing this course with a grade of "B" (3.0) or better are eligible to participate in campus writing tutoring programs. Formerly ENG 530. Prerequisites: ENG 612 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)

633. The Western Rhetorical Tradition I
Examination of major texts and movements in the history of rhetoric and writing studies, from the Classical period to the 18th century. May not be taken for credit by students who have received credit for ENG 611. (4 units)

634. The Western Rhetorical Tradition II
Examination of major texts and movements in the history of rhetoric and writing studies, from the 19th century to the present. May not be taken for credit by students who have received credit for ENG 611. (4 units)

651. Seminar in a Literary Topic
Advanced study in particular topics in literature. May be repeated for credit as topics change. Prerequisite: ENG 600 or consent of instructor. (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. Prerequisite: ENG 612 or consent of instructor. (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. Prerequisite: ENG 612 or consent of instructor. (4 units)

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 630, 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)

670. Creative Writing Internship
Practical experience in the area of creative writing, such as editing, supervised teaching in a classroom, and other related activities. Designed for students in the second year of the M.F.A. in Creative Writing. Prerequisites: completion of at least 36 units of coursework required by the program, consent of instructor, and approval of the M.F.A. coordinators. (4 units)

687. Master's Project Seminar in Poetry
Final development and refinement of a book-length manuscript suitable for publication, and an abstract of the master's project. Must be taken in the Fall and Winter quarters of the second year of the program for a total of eight units. Prerequisites: completion of 12 units of ENG 607 and at least half of the master's project, and advancement to candidacy. (4 units)

688. Master's Project Seminar in Fiction
Final development and refinement of a book-length manuscript suitable for publication, and an abstract of the master's project. Must be taken in the Fall and Winter quarters of the second year of the program for a total of eight units. Prerequisites: completion of 12 units of ENG 608 and at least half of the master's project, and advancement to candidacy. (4 units)

695. Thesis Proposal/Comprehensive Examination Preparation
Preparation of thesis proposal and annotated bibliography, or preparation for comprehensive examination. 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. (2-5 units)

697. **Thesis and Comprehensive Examination**

**Independent Study**
Research for the thesis and comprehensive exam. Cannot be used toward the 48 units in the M.A. in English Composition. Graded credit/no credit. May be repeated. Prerequisites: completion of coursework except for ENG 699A and 699B, or ENG 999 and approval of graduate coordinator. (2-6 units)

698. **Continuous Enrollment for Graduate Candidacy Standing**
Independent study leading to completion of requirements (other than coursework) 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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 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)
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 employ to study, describe and analyze globalization. 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. Supervised Graduate Study in Geography**
Original individual research in geography or environmental studies; 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 the master's program and consent of instructor. (4-5 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

**699. Graduate Project or Thesis**
Independent graduate project or research under guidance of the major advisor culminating in a written project or thesis in satisfaction of the extended project option of the degree requirements. Prerequisite: CHEM 695, GEOG 695 or GEOL 695. (4 units)
494 / 553. Advanced Structural Geology
Advanced topics in theory and analysis of stress and strain; examination of deformation mechanisms; geometry, kinematics, and mechanisms of orogenic belts. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisites: GEOL 325, 330 and 360 with a grade of "C" or better. Recommended: GEOL 370. (5 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. Prerequisite: 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)

621. Graduate Geological Mapping
Application of geologic techniques and principles to selected field problems. Includes geologic mapping, data collection, analysis, and presentation, and report writing. Overnight field work may be required. One hour lecture and nine hours laboratory. Prerequisites: GEOL 301, 325, 330, 340, and 360 or equivalents, classified standing, and consent of instructor. (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)
691. Graduate Independent Study
Independent study of an advanced topic in geology or environmental science. Prerequisites: classified standing in master's program and consent of instructor. (2-4 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 instructor. (4-5 units)

696. Graduate Project
Original individual research in geology, to be conducted under the guidance of the student's graduate advisor, and if desired, in collaboration with other members of the student's master's committee. May be repeated for credit for a maximum of 12 units. Graded credit/no credit. Prerequisites: classified standing and consent of instructor. (1-6 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. Graduate Thesis
Independent graduate research conducted under guidance of the major advisor culminating in a written thesis option of the degree requirements. Prerequisite: CHEM 695 or GEOL 695. (4 units)
HEALTH SERVICES ADMINISTRATION

Master of Science in Health Services Administration

Department of Health Science and Human Ecology

Physical Sciences Building, Room 226
(909) 537-5339 health.csusb.edu

FACULTY: Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Cindy Paxton (Emeritus), Robert Phalen

Masters of Science in Health Services Administration

Requirements (64 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 clinics, 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 entrance requirements is available at the department website: health.csusb.edu.

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 502.

Students may also earn a certificate in Finance, Accounting, and Information Systems along with the Master of Science in Health Services Administration.

Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum grade point average of 3.0 ("B") for the major or for the last 90 quarter units of the bachelor's degree, or for at least 12 units of graduate work;
2. Completion of the graduate entrance writing requirement;
3. Completion of the Graduate Record Examination (GRE);
4. Three letters of recommendation, including 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;
5. 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, plus completion of 12 additional quarter units of appropriate course work at California State University, San Bernardino with a grade point average of 3.0 ("B") or better and removal of deficiencies, if any.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the faculty of the Department of Health Science and Human Ecology who will also accept chairing the student's thesis committee if the thesis option is selected;
3. Completion of 20 quarter units of required course work as a graduate student at this university with approval of the graduate coordinator and with a minimum grade point average of 3.0 ("B"); and with a grade of "B-" or better in all coursework;
4. Candidacy will be granted upon completion of HSCI 610 and 611 plus completion of 12 additional quarter units of appropriate course work at California State University, San Bernardino;
5. Gained a recommendation for advancement to candidacy from the Graduate Coordinator of the Department of Health Science and Human Ecology;
6. Submitted a formal program of study of graduate course work prepared in consultation with the major advisor and approved by the graduate coordinator of the Department of Health Science and Human Ecology. The program will include an administrative residency/internship, comprehensive examination, or thesis.

Requirements for Graduation

In addition to the general requirements of the university and the department, graduation requirements include:

1. A minimum of 64 units of approved graduate-level work included in the formal program, with at least half of the units required for the degree gained from 600-level courses in Health Science and Human Ecology;
2. Advancement to candidacy for the degree and approval of the specific program study;
3. A grade point average of 3.0 ("B"), or better, in all graduate course work and research fulfilling the requirements of the Master of Science in Health Services Administration, and grades of "B-" or better in all coursework;
4. One of the following:
   A. Completion of the administrative residency/internship with a final project,
   B. Completion and defense of an acceptable thesis,
   C. Passing the comprehensive examination;
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 seven years.

Degree Requirements (64 units)

Core (44 units)

1. HSCI 602. Management, Organization, and Planning (4)
2. HSCI 607. Cross-Cultural Aspects of Health (4)
3. HSCI 608. Health Research Methods (4)
4. HSCI 610. Social and Behavioral Influences on Public Health (4)
5. HSCI 611. Public Health System Organization and Delivery (4)
6. HSCI 612. Public Health Statistics (4)
7. HSCI 616. Environmental and Occupational Health (4)
8. HSCI 617. Epidemiology (4)
9. HSCI 665. Strategic Planning and Management (4)
10. HSCI 675. Administration Leadership, Team, and Quality Development (4)
11. HSCI 685. Health Capstone Seminar (4)
COURSE OFFERINGS IN
HEALTH SCIENCE  (HSCI)

Upper Division

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)

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)

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 non-acute 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 processes 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 teacher’s 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. Health Aspects of Death and Dying
Investigation into how the realities of death and loss influence the quality of a person’s life and personal health status. The focus is on assisting students and professionals to develop the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. (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 358 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)

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. (1-4 units)
498 / Health Services Administration

Graduate/Postbaccalaureate

May not be taken by undergraduate students.

600. Seminar in Health and Human Ecology
Philosophical foundations of health and human ecology. Historical, contemporary, and professional perspectives. (4 units)

601. Administration of Health Care Programs
Economic forces which impact on health and health delivery systems and an assessment of the distribution of financial resources required to sustain these systems. Emphasis on trends in financing health care and the economic influence of reimbursement policies on financial decision-makers. (4 units)

602. Management, Organization, and Planning
Organizational, environmental, socio/political, and behavioral aspects of health and health delivery systems. Ecological perspectives related to management and planning of health programs, including strategies to facilitate communication, decision-making, and problem solving and planning and administrative approaches in developing, modifying, and sustaining modern health systems. (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. (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 370 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
Roles of cultures and their relationships to health status, health practices, and health-seeking behaviors. Influence of culture on research, statistics, and interventions, and provision of health services. Prerequisite: consent of instructor. (4 units)

608. Health Research Methods
Social and behavioral research methods used in Public Health and Health Services Administration, including research design and methodological issues, qualitative and quantitative data collection strategies, and research proposal writing. Practical application of health data. Prerequisite: consent of applicable MPH or MSHSA program coordinator. (4 units)

610. Social and Behavioral Influences on Public Health
Social and behavioral determinants of health status, and identification and solution of public health problems including preventive care. Formerly HSCI 501. (4 units)

611. Public Health System Organization and Delivery
Public health system organization, function, financing, and public policy. Includes an examination of the relationship between the public health system and medical care systems. Formerly HSCI 502. (4 units)

612. Public Health Statistics
Statistical methods commonly used in the collection and analysis of public health data. Includes methods for descriptive data analysis, fundamentals of probability and sampling distributions, methods for statistical inference, and hypothesis tests based on one or two samples, basic concepts of regression, non-parametric statistics, and introduction to qualitative data analysis, and the use of statistical software. Hands-on experience, and interpretations of statistical findings of health research data. Formerly HSCI 503. (4 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
Effective public health interventions using the socio-ecologic framework as a foundation to explore various levels of intervention. Practical applications in planning, implementing, and evaluating public health programs. Applying theory in diagnosing the nature of health and social problems, interpreting empirical research results, and planning health education and promotion interventions to improve public health. Prerequisite: 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)

616. Environmental and Occupational Health
Sources, routes, media, and health outcomes associated with chemical, physical, and biological agents in the environment; effects on water quality, air quality, food safety, land resources, and disease in community and occupational settings. Includes methods to identify and evaluate hazard sources and framework used to effect hazard control. Public health issues, research designs, factors important to the development of monitoring programs. Current federal legal framework, policies, and practices associated with environmental issues and intended to improve public health. Formerly HSCI 504. (4 units)

617. 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. Formerly HSCI 506. Prerequisites: HSCI 610, 611, and 612. (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)
621. 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. Formerly HSCI 560. Prerequisite: HSCI 604 or consent of instructor. (4 units)

622. Health Education Curriculum and Instruction
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. Formerly HSCI 591. Prerequisites: HSCI 432 and 433 or consent of instructor. (4 units)

623. 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. Formerly HSCI 592. Prerequisite: HSCI 622. (4 units)

624. 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)

625. 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 617, 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 workplace hazards including risk assessment, advanced techniques, and instrumentation used in the solution of workplace hazards. Prerequisites: classified graduate status and HSCI 617 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 617 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 612 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. (2-4 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 and disease, including both macronutrients and micronutrients. Prerequisites: classified graduate standing and prior or concurrent enrollment in HSCI 617 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 617 and 661, or consent of instructor. (4 units)

665. Strategic Planning and Evaluation
Community analysis including generating goals and objectives to implement effective community interventions. Logic models and program evaluation methodologies will be utilized to set parameters and to assure delivery of appropriate health services programs and outcomes. Organizational strategy evaluation, formulation, tactics, and development. (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 617 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. May be repeated for credit. Prerequisites: graduate standing and consent of graduate coordinator. (1-4 units)

675. Administration Leadership, Team and Quality Development
Leadership skill development, including interface within public, private, and non-profit health organizations. Collaborative partnerships, issues of diversity in leadership, negotiation, conflict resolution, continuous quality improvement process and management, and attributes of leaders and leadership. Health administration team behaviors, actions, and approaches along with team development are analyzed. (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 601, 602, 603, 604, 605, 606, 610, 611, 690, and concurrent enrollment in HSCI 645 and 675. (4 units)

689. Field Experience
A minimum of 30 hours for each unit of credit will be spent in a guided, structured, practical, educational experience in sites that may include public health offices, community health centers, clinical sites, non-profit health agencies, worksite health promotion programs, or health care organizations, under the direct supervision of a preceptor at the site and guidance of the department. Letter of approval signed by site preceptor and faculty advisor to be filed in department office prior to beginning the field experience. May be repeated. Graded credit/no credit. Prerequisite: consent of advisor. (2-8 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
Preparation of a project for the master's degree. Includes formal defense or professional presentation. Graded credit/no credit. Prerequisites: completion of HSCI 608, 612, and at least 24 units of approved coursework; an officially appointed project committee; and advancement to candidacy. (4 units)

697. Administrative Residency
Supervised internship of 400 hours 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. Requires formal written report and presentation. Graded credit/no credit. Prerequisites: advancement to candidacy 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree applicable nor will they qualify for financial aid. (0-6 units)

699. Thesis
Preparation of a thesis for the master's degree. Includes formal oral defense. Graded credit/no credit. Prerequisites: completion of HSCI 608, 612, and at least 24 units of approved coursework; an officially appointed thesis committee; and advancement to candidacy. (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. Graded credit/no credit. Prerequisites: advancement to candidacy, completion of a minimum of 16 units, approval of department, and good academic standing. (0 units)
**HISTORY**

Department of History  
Social and Behavioral Sciences Building, Room 327F  
(909) 537-5524  
[history.csbs.csusb.edu](http://history.csbs.csusb.edu)

The following courses are offered in support of graduate degree programs offered at this university.

**COURSE OFFERINGS IN HISTORY (HIST)**

**Graduate/Postbaccalaureate**  
May not be taken by undergraduate students.

**600. Proseminar in History**  
Survey of the concepts and ideas that historians employ to study, describe and analyze globalization. Prerequisite: consent of instructor. (4 units)

**603. Seminar in Modern Military History**  
Analyses of selected military operations since World War II. May be repeated once for credit, 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)

**HUMANITIES**

College of Arts and Letters  
University Hall, Room 237 or 339  
(909) 537-5800 or (909) 537-5869  
[artsletters.csusb.edu](http://artsletters.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. (1-4 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. (1-6 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. (1-5 units)
INTERDISCIPLINARY STUDIES

Master of Arts in Interdisciplinary Studies
Office of the Dean of Graduate Studies
Chaparral Hall, Room 123
(909) 537-5058 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 319 and 347.

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.

Application Process: The procedures listed below are for the individualized M.A. in Interdisciplinary Studies. Students interested in the Integrative Studies Track or the E-Marketing Communication and New Media Option should contact the program coordinators.

1. Determine the feasibility of pursuing an Interdisciplinary Studies M.A. by reviewing the requirements and examining available CSUSB master's programs to see if the proposed degree could be met through any of these. Explore the resources of the campus needed for an Interdisciplinary Studies M.A. in terms of course offerings, library resources, facilities, and faculty expertise;

2. Prepare a written proposal eight pages in length to include the following:
   a. Identify by title the proposed interdisciplinary program of study (i.e., Interdisciplinary Studies Master's Degree in [50-space limit]);
   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:
   a. Secure the agreement of faculty in the disciplines related to the proposed special program to serve as members of the Interdisciplinary Studies Graduate Committee. This committee must consist of no less than three tenured/tenure-track, full-time faculty members at CSUSB;
   b. Convene a meeting of the Interdisciplinary Studies Graduate Committee. At this meeting the committee will: review student's documents (i.e., CSUSB transcripts, Statement of Purpose, etc.); identify the appropriate preparatory course work, completed or to be completed; and formulate with the student an academically sound program of graduate study related to their Statement of Purpose; and develop the Approved Study Plan for the Master's Degree in Interdisciplinary Studies;
   c. On the form provided, list the five upper-division prerequisite courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
   d. On the Approved Study Plan form list the minimum of 48 units of course work, 70% of which must consist of 500- or 600-level courses, to be included in the Interdisciplinary Studies M.A. As an interdisciplinary program, these courses should include work from two or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible;
   e. Secure signatures on the application from the Interdisciplinary Studies Graduate Committee. The Interdisciplinary Studies M.A. proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal;

5. Submit the completed proposal for the Master's Degree in Interdisciplinary Studies to the Dean of Graduate Studies. The Office of Graduate Studies will attach a copy of current CSUSB transcripts. These materials constitute the Application for a Master's Degree in Interdisciplinary Studies and will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. Applications cannot be considered during the summer quarter.

The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal. The signature of the Chair of the University Curriculum Committee on the application for the Master's Degree in Interdisciplinary Studies signals acceptance of an applicant to the program. Subsequent modification of an Approved Study Plan requires approval of the student's Interdisciplinary Studies Graduate Committee and the Dean of Graduate Studies on an official Change of Study form.
6. A grade point average of 3.0 ("B") must be earned in course work can be completed prior to submission of the proposal to the University Curriculum Committee;

6. The Dean of Graduate Studies will notify the student in writing of the decision of the University Curriculum Committee. This may be approval or request for resubmission;

7. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Dean of Graduate Studies;

8. Upon approval of the Interdisciplinary Studies M.A. proposal, the student may formally declare an Interdisciplinary Studies M.A. At graduation, the diploma will show only an M.A. in Interdisciplinary Studies, unless the student requests in writing the inclusion of the focus of the interdisciplinary study in this fashion: Master of Arts in Interdisciplinary Studies in (subject area). The transcript will reflect both the degree title and the focus of study.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the major;

2. Completion of the graduate entrance writing requirement;

3. Prerequisite of at least five upper-division courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;

4. A three-member faculty committee, the chair of which serves as primary advisor, to supervise the course of study;

5. An interdisciplinary studies M.A. proposal submitted, on forms available from the Office of the Dean of Graduate Studies, to the University Curriculum Committee; the program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus within a commutable distance; no more than 12 units of proposed coursework can be taken prior to submission of the proposal to the University Curriculum Committee;

6. Approval of the program proposal by the University Curriculum Committee.

If approval is recommended by the University Curriculum Committee, the student is formally admitted into the program in either conditionally classified or classified status.

Requirements for Graduation

1. The program of study should be interdisciplinary, including course work from two or more departments represented at the university;

2. The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;

3. The program of study must not include more than eight units of independent study course work, excluding the units allowed for thesis or project;

4. The program must include a synthesizing experience (comprehensive examination, project or thesis). This experience will satisfy the graduation writing requirement. The project or thesis may include an oral defense. Students may register for no more than nine units of thesis or project credit. The project or thesis may include an oral defense;

5. The program of study must include a course in research methods in the major discipline;

6. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree 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;

7. When students have completed between 12 and 20 units of course work on an approved study plan, it will be necessary for them to submit a formal letter to the Office of the Dean of Graduate Studies requesting advancement to candidacy;

8. Any additional general requirements not cited above and listed on Page 368.

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. Eric Newman in the Department of Marketing, College of Business and Public Administration, (909) 537-5763. This program will not be offered during the 2012-2014 academic year.

Admission to the Program

1. Completion of an undergraduate degree from a recognized university or institution;

2. Have an overall grade point average of at least 2.5 and at least a GPA of 3.0 ("B") in the major;

3. Students not meeting this requirement must enroll in appropriate courses to bring the grade point average to this level;

4. Completion of at least five upper-division courses in MKTG and/or COMM each with a grade of "B" or better. These may include the program prerequisites of COMM 341 and MKTG 305;

5. Completion of the graduate entrance writing requirement. This can be met by taking the WREE examination, or by enrolling in an upper-division Expository Writing course, MKTG 306, or its equivalent. Note: Students who have received degrees outside the USA are required to take the WREE examination, or, enroll in MKTG 306 or its equivalent;

6. Students who have received an undergraduate degree from outside the USA, must pass the TOEFL Proficiency Exam with a score of 550 or higher, no exceptions. Refer to the Testing Office, University Hall, Room 368, (909) 537-5041/5045.

Advancement to Candidacy

1. Students must have achieved classified standing;

2. Students must submit a Request to Advance to Candidacy Form to the Program Coordinator after completing between 12 and 20 units of course work on an approved study plan with a minimum grade point average of "B";

3. Changes in an approved study plan must be justified and have the written approval of the Program Coordinator;

4. Students advancing to candidacy must also submit a Graduate Project Form to the program coordinator prior to registering for COMM 686 or MKTG 686;

5. A graduation check may be requested after a student has advanced to candidacy;

6. The format and approval of the student's project for binding and placement in the library must follow university guidelines which can be found in the Graduate Student Handbook available in the Graduate Studies Office, CH-123;

7. Any additional general requirements not cited above and listed on Page 368.
Requirements for Graduation

1. The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;
2. The program of study must not include more than eight units of independent study course work, excluding the units allowed for the project;
3. The program must include a synthesizing experience (project). This experience will satisfy the graduation writing requirement. The project will include an oral defense. Students may register for no more than eight units of project credit;
4. The program of study must include a course in research methods in the major discipline;
5. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree.

Prerequisite Courses (12 units)
1. COMM 309. Digital Media and Communication (4)
2. COMM 311. Business and Professional Communication (4)
3. MKTG 305. Marketing Principles (4)

Degree Requirements (48 units)

Core Courses (32 units)
1. COMM 491. Ethical Aspects of Communication (4)
2. COMM 609. Digital Culture (4)
3. Four units chosen from:
   COMM 697. Internship in Communication (4)
   MKTG 575. Internship in Marketing (4)
4. Four units chosen from:
   COMM 602. Quantitative Research Methods in Communication Studies (4)
   MKTG 640. Advanced Marketing Research (4)
5. IST 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 (5)
   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 590. Advanced Topics in Public Relations (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 565. 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.
KINESIOLOGY

Department of Kinesiology
Health and Physical Education Building, Room 120
(909) 537-5349  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. (2 units)

623. Sport and Social Issues
Social aspects of sport including social values, race, gender, ethnicity and social deviance. (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. (4 units)

630. Physical Education for Special Populations
Physical activity assessment, and program development for individuals with disabilities. (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. (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)

/ 505
MATHEMATICS

Master of Arts in Mathematics
Master of Arts in Teaching, Mathematics

Department of Mathematics
Jack Brown Hall, Room 370
(909) 537-5361 www.math.csusb.edu

FACULTY: Susan Addington, Joyce Ahlgren, Joseph Chavez, Corey Dunn, Nadia Dyakevich, Hajrudin Fejzic, Davida Fischman (MAT Coordinator), Christopher Freilling, Gary Griffing, Ilseop Han, Zahid Hasan, Madeleine Jetter, Yuichiro Kakihara, Su Liang, Giovanna Llosent, Min-Lin Lo, Shawnee McMurrin, Jim Okon, Chetan Prakash, Dan Rinne, John Sarli, Charles Stanton (MA Coordinator), Rolland Trapp, Belisario Ventura, Paul Vinknair, Laura Wallace, Wenxiang Wang, Peter Williams (Chair)

Masters 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:

1. 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 696. Master's Degree Project I, which is required of all master's candidates.

Advancement to Candidacy

In order to be advanced to candidacy, the student must:

1. Achieve classified status;

2. 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");

3. 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 696 and 697). A project proposal must be approved by the departmental graduate committee no later than the quarter preceding enrollment in MATH 696. The written project satisfies the graduation writing requirement.

Successful completion of MATH 697 also includes an oral presentation of the project to the department. Guidelines for submitting a project proposal and for the project itself are available from the department office.

5. A grade point average of at least 3.0 ("B") in the core courses as well as an overall grade point average of at least 3.0 ("B") in the program, with no course grade being less than "B-;

6. 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 368.

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)

1. 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:
1. 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;
3. 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;
6. 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 as early as possible in the program, and 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;
2. Submit a formal program of graduate work prepared in consultation with an advisor and approved by the MAT Graduate Committee;
3. Complete at least 15 quarter units and not more than 20 units of applicable work as a graduate student at this university, with a grade point average of at least 3.0 ("B");
4. Gain final approval of the program and of the candidacy itself by the Dean of Graduate 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;
5. Submission and approval of a student portfolio assessing and documenting academic progress. Portfolio guidelines are available from the Department of Mathematics;
6. 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 368.

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. Two units chosen from:
   - EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)
   - MATH 664. Project Design in Teaching Mathematics (2)
9. Four units chosen from:
   - EDUC 600. Master's Degree Project (4)
   - MATH 600. Master of Arts in Teaching Mathematics Project (4)
10. MATH 601. Assessment Portfolio (0)
Elective (4 units)
1. Four units of 400- to 600- level mathematics courses that are applicable to the B.A. or B.S. in mathematics (non-teaching track) or M.A. in Mathematics. Students are encouraged to take MATH 480 if not taken previously.

COURSE OFFERINGS IN
MATHEMATICS (MATH)

Upper Division
510. Topics in Mathematics
Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change. Prerequisite: senior or graduate standing. (4 units)

529. Advanced Geometry
Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: MATH 329, 331 and 345. (4 units)

531. Advanced Linear Algebra
Inner product spaces; duality of vector spaces; canonical forms; spectral theory; quadratic forms. Formerly a topic under MATH 510. Prerequisite: MATH 331. (4 units)
508 / Mathematics

545. Abstract Algebra I (FWS)
An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

546. Abstract Algebra II (S)
Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

553. Analysis I (FWS)
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 (S)
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)

570. Partial Differential Equations
Classification of partial differential equations; heat equation, Laplace’s equation, boundary value-problems; separation of variables. Applications of Fourier and Laplace’s transforms, numerical methods. Prerequisite: MATH 270 and 355. MATH 241 recommended. (4 units)

576. Introduction to Mathematical Models
Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSE 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. (1-4 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)

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)

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: MATH 305 or 350, SCM 210, PSYC 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. Prerequisites: 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, 633, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

664. Project Design in Teaching Mathematics
Steps and processes involved in the design and development of research proposals with emphasis on the master's project. Graded credit/no credit. Prerequisites: advancement to candidacy and consent of instructor. (2 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. or M.A.T. 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. (2-4 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)
MUSIC

Department of Music
Performing Arts Building, Room 111
(909) 537-5859  music.csusb.edu

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. (1-4 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)
Competence in these areas may be demonstrated by:
A. Formal completion of the course or its equivalent, OR
B. Credit by examination (not applicable to PSCI 484. National Security Policy);
6. Submission to the National Security Studies Admissions Committee of a brief statement (one or two double-spaced typewritten pages) of the student's preparation for graduate study and professional aspirations following receipt of the master's degree;
7. Submission of three letters of recommendation from individuals familiar with the student's academic or professional work and potential to complete the program successfully. Letters must come directly from the writer on National Security Studies forms.

Students who meet the requirements for admission to graduate study, but who do not meet the program requirements, may be admitted to graduate study in unclassified 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;
3. Completed at least 16 quarter units of national security studies program course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed a graduate program approved by the student's advisor, the national security studies program director and the Dean of Graduate Studies.

Requirements for Graduation
1. A minimum of 46 quarter units of acceptable graduate-level work, with at least 36 quarter units completed in residence at California State University, San Bernardino. Thirty-two quarter units must be in 600-level courses;
2. A grade point average of at least 3.0 ("B") in all national security studies program courses taken;
3. Choose Option A or B:
   A. Completion of acceptable comprehensive final written and oral examinations;
   B. Completion and defense of an original master's thesis;
4. The graduation writing requirement will be satisfied by achieving a minimum grade point average of 3.0 ("B") in all three core courses. Each core course will allow the student to develop competence in three forms of writing traditional to the field:
   A. Critical book reviews (PSCI 600),
   B. Chapter length essay (PSCI 601),
   C. Article length essay (PSCI 602) and the process of "peer review";
5. Any additional general requirements not cited above and listed on Page 368.

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.

**Regional Area of Concentration (12 units)**

Eurasia
Middle East
East Asia

Others, to be arranged between faculty advisor, students and approved by the NSS Director.

**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)**

1. Eighteen units chosen from among courses not used for either the core or field requirements listed below. Students who elect to complete PSCI 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, East 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 606. International Terrorism (4)
   - PSCI 609. International Relations Theory (4) (if not taken as part of core requirement)
   - PSCI 611. Regional Security of Eurasia (4)
   - PSCI 613. Middle East Security (4)
   - PSCI 614. Regional Security of East Asia (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)

**Culminating Experience**

1. Students must complete A or B below:
   - A. PSCI 999. Comprehensive Examination (0)
   - B. PSCI 699. Thesis (2)

Forty-four units of course work and two 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. Candidates must 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. See Page 60 for additional certificate information.

Certificate in Intelligence Methodology

Prerequisite:
1. Graduate standing.

Certificate Requirements (25 units)
1. PSCI 571. Organization of U.S. Intelligence (1)
2. PSCI 621. Strategic Intelligence (4)
3. Eight units chosen from one of the following groups:
   Option 1
   GEOG 202. Introduction to Geographic Information Systems and Cartography (4)
   GEOG 402. Geographic Information Systems Applications (4)
   Option 2
   GEOG 306. Remote Sensing of Environment (4)
   GEOG 406. Digital Image Processing (4)
4. A minimum of twelve units chosen from:
   CJUS 550. Crime and Intelligence Analysis (4)
   CJUS 554. Terrorism (4)
   GEOG 406. Digital Image Processing (4) if not taken previously
   GEOG 605. Spatial Data Presentation (4)
   GEOG 610. Military Geography (4)
   MATH 611. Operations Analysis (4)
   PSCI 484. National Security Policy (4)
   PSCI 590. Seminar in International Relations: Political Intelligence (4)
   PSCI 604. Seminar in International Law (4)
   SOC 606. International Terrorism (4)
   PSCI 622. Arms Control (4)
   PSCI 624. Politics of National Security (4)
   PSCI 625. American Foreign Policy (4)
   SSCI 695. Directed Graduate Studies (2-4) for a maximum of (8) (Research or Intern Project)

PI SIGMA ALPHA

Qualified students may join the CSUSB Chapter of Pi Sigma Alpha, the national political science honor society. Graduate students must be enrolled in a political science graduate program and must have completed at least 9 quarter units or 6 semester units in political science with a grade no lower than a "B" in any course in their graduate program. Additional information can be obtained from the department of Political Science.
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. (1-5 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. (1-6 units)
NURSING

Master of Science in Nursing
with concentrations in
  Academic Nursing Education
  Advanced Community/Public Health Nursing
  Population-Based Nursing
  School Nursing

Department of Nursing
Health and Physical Education Building, Room 215
(909) 537-5380  nursing.csusb.edu

FACULTY: Debra Cohen, Cheryl di Pretoro, Lynne Leach (PDC Coordinator), Teresa Dodd-Butera, Susan McGee-Stehsel, Mary Molle (Emeritus), Phyllis Nix (BSN Coordinator), Ora Robinson, Paula Spencer, Dwight Sweeney (Chair), Asma Taha, Anna Wilson

MASTER OF SCIENCE IN NURSING
Requirements:
  Academic Nursing Education (53-57 units)
  Advanced Community/Public Health Nursing (59-63 units)
  Population-Based Nursing (45 units)
  School Nursing (57-61 units)

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing with a clinical focus in population-based (advanced public/community health) nursing. The program is designed to educate professional nurses for leadership and service in culturally diverse, pluralistic communities. Graduates of the MS program will 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 Academic Education concentration prepares Nursing Faculty to teach in Nursing Programs at both community and four-year universities. This program is also appropriate for advanced practice nurses interested in population health education and health education programming.

The School Nursing concentration meets 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. Additional requirements needed for MSN include:
  1. NURS 635. Biostatistics for Public/Community Health Nursing
  2. Culminating Project, Thesis or Comprehensive Examination

Graduates who complete the Advanced Public/Community Health Option are prepared for National Board Certification in Public Health Nursing.

The Special Teaching Authorization in Health (STAH) option is available to school nurses who wish to position themselves to become faculty of record for health classes within public school districts. The STAH is not required for the credential and is available to master's students as well as nurses in the community who are already credentialed. The STAH authorizes nurses to provide health education instruction beyond that of periodic guest presentation and allows school administrators to utilize nurses in the capacity of health educators through the provision of direct and regular health instruction. Requirements for the STAH are completion of 14 units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test). Application for the STAH requires an Exit Interview. Graduates who complete the Advanced Public/Community Health Option are prepared for National Board Certification (AACN) in Advanced Public Health Nursing.

Admission to the Program
In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:
  1. A baccalaureate degree in nursing from an accredited program, or a baccalaureate degree in a discipline related to nursing. Applicants with non-nursing baccalaureate degrees must meet competencies in research, leadership, and community health. Competency may be verified through coursework, testing or certification;
  2. A grade point average of 3.0 ("B") in the last 60 semester (90 quarter) units attempted;
  3. Current licensure to practice nursing in California (RN);
  4. Professional and/or academic competence in nursing attested through three personal recommendations;
  5. Successful completion of an upper-division undergraduate statistics course;
  6. Completion of NURS 601. Preparation for MSN Learning with Technology;
  7. Completion of the graduate entrance writing requirement.

Department Regulations

1. MSN 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;
2. 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;
3. Students must have current Health Insurance. See Department for instructions;
4. Students must have a current background check prior to their clinical experience. See Department for instructions;
5. Students must have access to insured transportation for their clinical experience;
6. A current Cardiopulmonary Resuscitation card, American Heart Association (AHA) Health Care Provider. Students pursuing the School Nurse Credential must also meet the following requirements:
  7. A current First Aid card;
  8. Completion of state approved audiometry course.

Recommendation for the School Nurse Credential
In order to be recommended for a credential, the student must have:
  1. Completed all prescribed coursework with a grade point average of 3.0 ("B") or better;
  2. A current First Aid card and current Cardiopulmonary Resuscitation card.

Advancement to Candidacy
In order to be advanced to candidacy, the student must have:
  1. Achieved classified status;
  2. Completed at least 30 quarter units of course work with a minimum grade point average of 3.0 ("B");
  3. Been accepted by a major advisor for the Department of Nursing who will also accept chairing the student's project/thesis committee;
  4. Filed an approved program for completion of the graduate degree. This program must be prepared in consultation with the
major advisor and approved by the Program Coordinator and the Dean of Graduate Studies;
5. Demonstrated professional competence and integrity in academic and clinical practice settings.

Requirements for Graduation
In addition to the general requirements of the university:
1. Advancement to candidacy for the MS degree in nursing;
2. A minimum of 45-63 quarter units of designated courses depending on the concentration(s) selected, as approved on the petition for advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements for the M.S. in Nursing, and grades of "C" (2.0) or better in all elective courses;
4. Choose A, B or C below as required by the concentration:
   A. Completion and presentation of an acceptable clinical project;
   B. Completion and defense of an acceptable thesis;
   C. Completion of NURS 999, Comprehensive Examination and NURS 690, Preparation for 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 (45-63 units)
Core Courses (39 units)
1. NURS 600. Population Health Assessment (6)
2. NURS 610. Program Planning and Evaluation (6)
3. NURS 620. Health Policy Leadership (6)
4. NURS 630. Advanced Nursing Roles (3)
5. NURS 635. Biostatistics for Public/Community Health Nursing (4)
6. NURS 645. Advanced Nursing Research (4)
7. NURS 655. Advanced Nursing Theory (4)
8. NURS 688. Advanced Role Practicum (2)
9. NURS 646. Epidemiology (4)
Choose one of the following concentrations:

Academic Nursing Education (14-18 units)
1. NURS 658. Nursing Education: Curriculum and Instruction (4)
2. NURS 659. Assessment and Evaluation (4)
3. NURS 660. Nursing Education: Technology in Nursing Education (4)
4. One of the following culminating sequences:
   a. Clinical Project
      NURS 697. Clinical Project in Nursing (6)
   b. Thesis Research
      NURS 699. Thesis Research in Nursing (6)
   c. Comprehensive Examination
      1. NURS 690. Preparation for Comprehensive Examination (2)
      2. NURS 999. Comprehensive Examination (0)

Advanced Community/Public Health Nursing (20-24 units)
1. NURS 681. Advanced Public/Community Health Internship I (3)
2. NURS 682. Advanced Public/Community Health Internship II (3)
3. Twelve units of 500 or 600 level courses chosen in consultation with the graduate advisor and approved by the MSN coordinator.
4. One of the following culminating sequences:
   a. Clinical Project
      NURS 697. Clinical Project in Nursing (6)
   b. Thesis Research
      NURS 699. Thesis Research in Nursing (6)
   c. Comprehensive Examination
      1. NURS 690. Preparation for Comprehensive Examination (2)
      2. NURS 999. Comprehensive Examination (0)

Population-Based Nursing (6 units)
1. The following culminating sequence:
   NURS 660. Preparation for Comprehensive Examination (2)
   NURS 999. Comprehensive Examination (0)
2. Four units of 500- or 600-level Nursing elective chosen in consultation with the graduate advisor and approved by the MSN program coordinator.

School Nursing (18-22 units)
Includes 47 units of the School Nurse Credential
1. NURS 502. Advanced Physical/Health Assessment of Children and Adolescents (4)
2. NURS 503. Principles of School Nursing Practice (4)
3. NURS 658. Nursing Education: Curriculum and Instruction (4)
4. ESPE 530. Introduction to Special Education (4)
5. One of the following culminating sequences:
   a. Clinical Project
      NURS 697. Clinical Project in Nursing (6)
   b. Thesis Research
      NURS 699. Thesis Research in Nursing (6)
   c. Comprehensive Examination
      1. NURS 690. Preparation for Comprehensive Examination (2)
      2. NURS 999. Comprehensive Examination (0)

Special Teaching Authorization in Health (STAH)
1. NURS 660. Nursing Education: Technology in Nursing Education (4)
2. NURS 681. Advanced Public/Community Health Internship I (3)
3. NURS 682. Advanced Public/Community Health Internship II (3)
4. Students in any MSN concentration are eligible to complete the Clinical Nurse Specialist.

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. Advanced Physical/Health Assessment of Children and Adolescents
Seminar presents techniques related to physical and health assessment, in the school or community setting, including vision, scoliosis, and dental screenings. Emphasis is on the common morbidities and mortalities of these age groups and the interrelationship of the physical, emotional, and socioeconomic causes of health problems and illnesses. 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)

505. 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: 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. (1-6 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

600. Population Health Assessment
Examines the health of communities and the process of assessment, including environmental health. Analysis of theoretical frameworks, assessment models, health care delivery systems, and special populations as they relate to current health issues. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisite: classified graduate standing in MSN program and current RN licensure and consent of the department. (6 units)

601. Preparation for MSN Learning with Technology
Introduces returning students to methods of effective learning. Methods will include learning skills in a traditional classroom, and virtual instructional methods. Lecture, computer and web based activities. Graded credit/no credit. Prerequisite: consent of department. (1 unit)

610. Program Planning and Evaluation
Program planning, implementation and evaluation for effective advanced public/community health nursing to improve health and meet health care needs of populations. Includes fiscal management and grant writing. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisites: NURS 600, current RN licensure and consent of department. (6 units)

620. Health Policy Leadership
Social, ethical, political, economic and ideological forces that shape health policy and law. Informed participation in interdisciplinary policy-making processes and the impact of health policy on professional practice. Develops leadership skills to champion solutions for health. Three hours seminar and nine hours laboratory (90 clinical hours). Materials fee required. Prerequisites: NURS 610, current RN licensure and consent of department. (6 units)

630. Advanced Nursing Roles
Considers the advanced nursing component roles of: expert clinical nursing practice, education, research, consultation and clinical leadership to study the health of populations within diverse settings. Disease prevention/health promotion topics include nutrition, addictive substances/behaviors, and strategies such as cultural competence and health education. Three hours seminar. Prerequisites: current RN licensure and consent of department. (3 units)

635. Biostatistics for Public/Community Health Nursing
Statistical knowledge and tools 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. Advanced Nursing Research
Overview of the research process, the composition of the literature review, ethical issues, research design, proposal development and data evaluation. Meta-analysis, odds ratio, and risk ratio methods are applied to practice with populations. Formerly NURS 625. Prerequisite: consent of department. (4 units)

646. Epidemiology
Examination of the distribution and determinants of health and illness; factors contributing to health promotion and disease prevention; and factors influencing the use of health services. Examination of the terms and methods used to describe the health status of populations and investigate disease. Emphasizes a local to global perspective including implications for health care delivery, evaluation, and health policy. Prerequisite: consent of the department. (4 units)

654. Transcultural Health Care
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. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

655. Advanced Nursing Theory
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 outcomes evaluation. Formerly NURS 615. Prerequisite: classified standing in the MSN program or consent of department. (4 units)

656. Management Skills for Advanced Public/Community Health Nursing
Overview of management concepts and skills necessary for advanced public/community health nursing. Focus is on effective management of health care systems, programs and resources in the community. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

657. Nursing Case Management
Foundations of case management. 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. Nursing Education: Curriculum and Instruction
Teaching-learning theory as a basis for curricular development. Advanced practice nursing education in academic and community settings focusing on program and curriculum development and instructional methodology. Formerly NURS 650. Prerequisite: consent of department. (4 units)

659. Assessment and Evaluation in Nursing Education
Teaching-learning theory as a basis for assessment and evaluation of learner outcomes. Accreditation standards discussed and analyzed. Participants develop an evaluation plan and strategies in preparation for the role of educator in an educational institution or health care setting. Focus is on higher education or K-12 depending on concentration. Four hours seminar. Prerequisites: NURS 658 and consent of department. (4 units)

660. Instructional Technology in Nursing Education
Computer and other instructional technologies supporting the teaching-learning process. Includes principles of distance learning, use of the internet, and how to integrate computer technologies into the teaching-learning process. Focus is on higher education or K-12 depending on concentration. Seminar, computer and web based activities. Four hour seminar. Prerequisites: NURS 658 and consent of department. (4 units)

681. Advanced Public/Community Health Internship I
Clinical application of advanced 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 the department, and current RN licensure. (3 units)

682. Advanced Public/Community Health Internship II
Clinical application of advanced 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. Formerly NURS 680. (3 units)

688. Advanced Role Practicum
Application of advanced nursing concepts in the core and concentration, and identification of researchable problems. Activities will demonstrate mastery of the advanced nursing component areas: expert clinical nursing practice, education, research, consultation, and clinical leadership. Participants must have access to a clinical site and a preceptor in their concentration. 60 hours clinical practicum. Graded credit/no credit. Prerequisites: NURS 600, 610, and 630 and consent of department. May be taken concurrently with NURS 620. (2 units)

690. Preparation for Comprehensive Examination
Independent study conducted under the direction of a faculty member to prepare for comprehensive examinations in the Master of Science in Nursing. Prerequisite: advancement to candidacy. Corequisite: NURS 999. (2 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 645. (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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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)
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)

606. **International Terrorism**
Examination of international terrorism, foreign terrorist organizations, and state responses to terrorism. Formerly a topic under PSCI 605. (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, with emphasis on globalization. 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)

612. **Regional Security of East Asia**
Strategic factors in East Asia, with emphasis on the relationships between politics and military factors. Formerly a topic under PSCI 605. (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. (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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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)
PSYCHOLOGY

Master of Arts in Child Development
(Degree requirements can be found on Page 402.)

Master of Arts in General Experimental Psychology

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  psycology.csusb.edu/

FACULTY:  Mark Agars, Allen Butt, Kelly Campbell, Sybil Carrere, David Chavez (Graduate Director, MSCC), Yuchin Chien, John Clapper, Cynthia Crawford, Robert Cupp, Donna Garcia, Janelle Gilbert (Graduate Director, MSI/O), Charles Hoffman (Emeritus), Sergio Iñiguez, Laura Kampthner, James Kaufman, Hideya Koshino, Janet Kotke, Michael Lewin, Faith McClure, Sanders McDougall, Jean Peacock, Matthew Quinlan, Jason Reimer (Graduate Director, MACD), Robert Ricco (Chair), David Riefer, Matt Riggs, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman (Graduate Director, MAGE), Sharon Ward, Amanda Wilcox-Herzog, Eugene Wong

MASTER OF ARTS IN GENERAL EXPERIMENTAL PSYCHOLOGY

Requirements (51 units)

The objective of the Master of Arts in General Experimental Psychology is to provide a program of study with courses selected from a variety of basic areas in general experimental psychology. The program 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.

Admission to the M.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:
1. A baccalaureate degree with a major in psychology; or with any other undergraduate major:
   a. Score at least at the 50th percentile on the GRE advanced test in psychology; OR
   b. Satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
3. Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology program only);
4. Completion of the graduate entrance writing requirement;
5. A brief statement describing preparation for graduate study (e.g., research experience, academic accomplishments), the goals of graduate study and professional aspirations, to be submitted to the department;
6. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.);
7. Satisfaction of the prerequisites or their equivalent:
   PSYC 100. Introduction to Psychology
   PSYC 210. Psychological Statistics
   PSYC 311. Introduction to Experimental 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 spring quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, with consent of the Psychology Department, in selected graduate courses.

Advancement to Candidacy

At the end of the spring quarter, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each quarter until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:
1. Achieved classified status;
2. Successfully completed 16 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Satisfied the ethical requirements of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. Success will be determined by a passing grade in PSYC 611B (2 units). PSYC 611C (3 units) will be reserved for the completed thesis proposal after advancement. This requirement can be fulfilled in one of three ways:
   a. Student will be required to become familiar with the literature in a research area which will be related to their thesis research. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/student groups.
   b. Student will be required to become familiar with several related research literatures if their area of interest is currently undeveloped or if specialized knowledge of particular methodologies requires further investigation for the development of a thesis project.
   c. Student will be required to become skilled in certain specialized research methods which will pertain to their abilities to gather data for the thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

Requirements for Graduation

1. A minimum of 51 quarter units of approved graduate-level work, with 38 completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C+" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
4. The graduation writing requirement is met upon successful completion of the thesis;
5. Any additional general requirements not cited above and listed on Page 368.
   Classified graduate students in the Master of Arts program must complete their degree requirements within seven 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) must be taken if another course is not taken during a given quarter.

Degree Requirements (51 units)

1. PSYC 611. Advanced Independent Study (2-5 for a total of (5)
2. PSYC 640. Advanced Methods in Psychological Research (4)
3. PSYC 641. Analysis of Variance (5)
4. PSYC 642. Regression and Nonparametric Statistics (4)
5. PSYC 650. Advanced Cognitive Psychology (4)
6. PSYC 652. Advanced Learning and Motivation (4)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 656. Advanced Biological Psychology (4)
9. PSYC 658. Advanced Personality and Social Psychology (4)
10. PSYC 699. Thesis (5)
11. Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, 611, 612 and 689.

MASTERC OF SCIENCE IN PSYCHOLOGY
Requirements

Clinical Counseling
Thesis Concentration (91-92 units)
Comprehensive Examination Concentration (90 units)

Industrial/Organizational
Thesis Concentration (76 units)

The areas of concentration for the Master of Science degree program are clinical/counseling psychology or industrial/organizational psychology.

The principal objective of the clinical/counseling program is to provide students with practical skills in counseling, through supervised training and experience, and an understanding of relevant subject matter knowledge and research methodology. The program offers required and elective course work designed to meet the educational requirements for licensure as a Marriage and Family Therapist (MFT) as outlined by the California Board of Behavioral Sciences. The program culminates with a thesis or comprehensive examination and an internship experience.

The principal objective of the industrial/organizational program is to provide students with the skills to apply the principles and methods of psychology to organizations, public and private, and to settings where people are engaged in work. To be successful in this application, the graduate must have developed knowledge and appreciation of psychological theory and research as they apply to organizations and people at work, and mastery of the measurement and research technologies which are commonly used in the discipline.

Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:
1. A minimum cumulative undergraduate grade point average of 2.5;
2. A minimum cumulative undergraduate grade point average in the major of 3.0 (“B”);
3. A baccalaureate degree in psychology; or
4. Any 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;
5. Completion of the graduate entrance writing requirement;
6. 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;
7. 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 Clinical Counseling 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
   or
   SCM 210. Applied Business Statistics
   c. PSYC 311. Introduction to Experimental Psychology
   d. PSYC 377. Tests and Measurements
   e. PSYC 385. Personality
   or
   PSYC 386. Introduction to Psychotherapy
   f. PSYC 390. Abnormal Psychology

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to winter quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses, with the instructor's approval.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:
1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 16 quarter units of graduate course work at this university, and
achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

Requirements for Graduation

Clinical/Counseling Option:
1. Completed at least 90-92 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 368.

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

Complete details regarding the examination option are available from the Psychology Department.

Industrial/Organizational Option:
1. Completed a minimum of 76 quarter units of approved graduate level work with at least 60 units completed in residence at this university with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program;
2. Completed and defended an original master's thesis (a two-course sequence, PSYC 611 and 699);
3. The graduate writing requirement is met upon successful completion of the thesis.

Classified graduate students in the Master of Science programs must complete their degree requirements within seven 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 (91-92 units)
1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 616. Child and Spousal Abuse (4)
3. PSYC 618. Community and Public Mental Health (4)
4. PSYC 619. Community Disaster, Trauma, and Resilience (4)
5. PSYC 633. Professional Ethics and Law (4)
6. PSYC 636. Cross-Cultural Counseling (4)
7. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
8. PSYC 640. Advanced Methods in Psychological Research (4)
9. Four or five units chosen from:
   PSYC 641. Analysis of Variance (5)
   PSYC 642. Multiple Regression (4)
10. PSYC 654. Advanced Life-Span Developmental Psychology (4)
11. PSYC 665. Psychopathology (4)
12. PSYC 667. Family Processes (4)
13. PSYC 671. Marriage and Family Therapy Skills I (5)
14. PSYC 672. Marriage and Family Therapy Skills II (5)
15. PSYC 673. Marriage and Family Therapy Skills III (5)
16. PSYC 679. Theories of Counseling and Psychotherapy (4)
17. PSYC 687A. Marriage and Family Therapy Practicum I (2)
18. PSYC 687B. Marriage and Family Therapy Practicum II (2)
19. PSYC 687C. Marriage and Family Therapy Practicum III (2)
20. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
21. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
22. PSYC 697C. Advanced Practicum in Counseling Psychology (4)
23. PSYC 699. Thesis (5)

Notes: PSYC 617, 682, and 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist.

Comprehensive Examination Option (90 units)
1. PSYC 612. Directed Readings (2-5) for a total of (5)
2. PSYC 616. Child and Spousal Abuse (4)
3. PSYC 618. Community and Public Mental Health (4)
4. PSYC 619. Community Disaster, Trauma, and Resilience (4)
5. PSYC 633. Professional Ethics and Law (4)
6. PSYC 636. Cross-Cultural Counseling (4)
7. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
8. PSYC 640. Advanced Methods in Psychological Research (4)
9. PSYC 654. Advanced Life-Span Developmental Psychology (4)
10. PSYC 665. Psychopathology (4)
11. PSYC 667. Family Processes (4)
12. PSYC 671. Marriage and Family Therapy Skills I (5)
13. PSYC 672. Marriage and Family Therapy Skills II (5)
14. PSYC 673. Marriage and Family Therapy Skills III (5)
15. PSYC 679. Theories of Counseling and Psychotherapy (4)
16. PSYC 687A. Marriage and Family Therapy Practicum I (2)
17. PSYC 687B. Marriage and Family Therapy Practicum II (2)
18. PSYC 687C. Marriage and Family Therapy Practicum III (2)
19. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
20. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
21. PSYC 697C. Advanced Practicum in Counseling Psychology (4)
22. PSYC 699. Thesis (5)

Notes: PSYC 617, 682, and 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist.
Thesis Option (75 units)

1. PSYC 581A. Seminar in Industrial/Organizational Psychology: Current Professional Issues (2)
2. PSYC 581B. Seminar in Industrial/Organizational Psychology: Organizational Leadership (2)
3. PSYC 581C. Seminar in Industrial/Organizational Psychology: Processes of Work Groups (2)
4. PSYC 581D. Seminar in Industrial/Organizational Psychology: Training and Executive Development (2)
5. PSYC 581E. Seminar in Industrial/Organizational Psychology: Ethical Issues in Organizations (2)
6. PSYC 581F. Seminar in Industrial/Organizational Psychology: Diversity in Organizations (2)
7. PSYC 581G. Seminar in Industrial/Organizational Psychology: Legal Issues for the I/O Professional (2)
8. PSYC 601. Performance Assessment (4)
9. PSYC 602. Organizational Development (4)
10. PSYC 603. Personnel Selection and Validation (4)
11. PSYC 604. Work Motivation and Organizational Reward Systems (4)
12. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
13. PSYC 640. Advanced Methods in Psychological Research (4)
14. PSYC 641. Analysis of Variance (5)
15. PSYC 642. Regression and Nonparametric Statistics (4)
16. PSYC 643. Multivariate Methods (4)
17. PSYC 644. Applied Psychological Measurement (4)
18. PSYC 675. Practicum in Applied Psychology (4)
19. PSYC 689. Externship in Applied Psychology (2-5) for a total of (5)
20. PSYC 699. Thesis (5)

21. Four units chosen from:
   - PSYC 650. Advanced Cognitive Psychology (4)
   - PSYC 652. Advanced Learning and Motivation (4)
   - PSYC 654. Advanced Life-Span Developmental Psychology (4)
   - PSYC 656. Advanced Biological Psychology (4)
   - PSYC 658. Advanced Personality and Social Psychology (4)

22. A minimum of two units chosen from:
   - ACCT 503. Financial Accounting (4)
   - ECON 503. Economic Analysis (4)
   - FIN 503. Financial Management Concepts (4)

May choose only one of the following two courses:
- HD 540. Work, Retirement and Leisure (4)
- PSYC 540. Work, Retirement and Leisure (4)
- MGMT 601. Organization Theory and Behavior (4)
- MGMT 641. Managing Human Resources (4)
- MGMT 642. Communication and Interpersonal Processes (4)
- MGMT 644. Industrial Relations (4)
- MGMT 655. Leadership for Modern Organizations (4)
- MGMT 660. Managing Teams in the Workplace (4)
- PSYC 612. Directed Readings (2-5)
- PSYC 636. Cross-Cultural Counseling (4)
- PSYC 665. Psychopathology (4)
- PSYC 679. Theories of Counseling and Psychotherapy (4)

### COURSE OFFERINGS IN

**PSYCHOLOGY (PSYC)**

#### Upper Division

**538. Introduction to Psychopharmacology**

Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral attitudes. Prerequisites: HD 324, PSYC 324, 333 or 363; or consent of instructor. (4 units)

**540. Work, Retirement and Leisure**

Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

**575. Internship in Psychology**

Supervised work and study in private or public organizations. May be repeated once for credit. (Only four units of PSYC 575 may be applied to upper-division elective requirements in the psychology major.) Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

**581. Seminar in Industrial/Organizational Psychology**

Selected topics in industrial/organizational psychology. M.S. I/O option candidates are required to take all seven 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)
- E. Ethical Issues in Organizations (2 units)
- F. Diversity in Organizations (2 units)
- G. Legal Issues for Organizational Professionals (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. (2-4 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. (Also offered as HD 597. Students may not receive credit for both.) Prerequisites: PSYC 311 and consent of department. (4 units)
508. 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. I. (Also offered as HD 598A. Students may not receive credit for both.) Prerequisites: PSYC 597 and consent of department. (2 units)
B. II. (Also offered as HD 598B. Students may not receive credit for both.) 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. 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 organizational processes and interventions at the organizational and group levels. 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. 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. Graded credit/no credit. Prerequisites: classified standing and consent of instructor. (2-5 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. (2-5 units)

612. Directed Readings
Special topics involving supervised readings under the direction of a faculty member. Prerequisites: graduate standing and consent of department. (2-5 units)

613. Short-term Counseling
Counseling skills and strategies for short-term therapeutic intervention. Prerequisites: classified standing and consent of department. (4 units)

614. Couples Counseling
Theory and practice of counseling with couples. Prerequisites: classified standing and consent of department. (4 units)

615. Group Counseling
Theory and practice of group counseling. Prerequisites: classified standing and consent of department. (4 units)

616. Child and Spousal/Partner Abuse
Theory and research on the psychological aspects of child and spousal/partner abuse. Detection, assessment and treatment of the abuse. Formerly a topic under PSYC 678. 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)

618. Community and Public Mental Health
Provision of marriage and family therapy in community and public mental health, including recovery-oriented principles, client advocacy, case management, and systems of care as well as strategies for therapeutic intervention consistent with recovery-oriented, strengths-based practice. Prerequisites: classified standing and consent of department. (4 units)

619. Community Disaster, Trauma and Resilience
Community disaster and trauma response as well as training in resilience models for recovering from trauma. Prerequisites: classified standing and consent of department. (4 units)

620. 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)

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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Three hours lecture and two hours activity. Materials fee required. Prerequisite: classified graduate standing in M.A. or M.S. program or consent of department. (4 units)

647. Advanced Adulthood and Aging Development
Key topics in developmental psychology concerning young, middle aged and older adults. Specialized methodological and measurement concerns will be discussed as well as age-related changes and theoretical/empirically based applications. Prerequisites: PSYC 654 and classified graduate status. (4 units)

650. Advanced Cognitive Psychology
Research and theories in the psychology of thinking, knowing and remembering. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

652. Advanced Learning and Motivation
Major theories and research in learning and motivation with emphasis on current issues. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

654. Advanced Life-Span Developmental Psychology
Examination of the developmental processes, theories, issues and research in life-span developmental psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

655. Advanced Seminar in Developmental Psychology
Selected current issues and advanced topics of theoretical, research or applied interest in developmental psychology. Prerequisites: classified standing and consent of department. (4 units)

656. Advanced Biological Psychology
Study of biological bases of behavior with emphasis on recent research. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

658. Advanced Personality and Social Psychology
Major theories, methods and empirical findings in personality and social psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

664. Applied Life-Span Developmental Psychology
Conceptual, methodological and policy related issues in the application of developmental psychology to applied settings. Prerequisites: classified standing and consent of department. (4 units)

665. Psychopathology
Major types of human psychopathology including descriptive symptomatology, etiological factors and treatment considerations. Prerequisites: classified standing in Psychology M.S. degree program and consent of department; or PSYC 390, classified standing in Psychology M.A. degree program and consent of department; or PSYC 390 and consent of department. (4 units)

667. Family Processes
Normal and dysfunctional family processes, including analysis of family systems, family communication and strategies for therapeutic intervention. 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. I. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 671. (2 units)
B. II. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 672. (2 units)
C. III. 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. (2-5 units)

691. Human Sexuality and Treatment
Study of human sexuality with emphasis on both healthy sexuality and sexual dysfunction. Clinical interventions to enhance sexual functioning and to treat sexual dysfunctions will be presented. 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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)
PUBLIC ADMINISTRATION

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  mpa.csusb.edu

FACULTY:  Jonathan Anderson (Chair), David Baker, Michael Clarke (Emeritus), Kimberly Collins, Marc Fudge, Albert K. Karnig, Guenther Kress (Emeritus), Anna Ni, Monty Van Wart, Clifford Young

MASTER OF PUBLIC ADMINISTRATION
Requirements (48 units) (see Addendum for program changes)

The Master of Public Administration (M.P.A.) is a broad program designed to prepare students for a career in administration in the public sector. The major objective is to provide the student with a generalist perspective of public administration, including tools of decision-making, an understanding of the total public administrative system, and a capacity for working within the public environment.

This degree is intended for graduate students and career employees seeking to develop and strengthen academic and professional skills for admission and advancement in the professional practice of public administration.

The program is open to all students, regardless of undergraduate major.

Admission to the M.P.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor's degree from an accredited college or university;
2. A grade point average of 3.0 or above for the last 90 quarter units (or 60 semester units) of course work including postbaccalaureate course work or at least a 2.75 and a combined score of (GPA x 350) + GRE = 1950. For example, a 2.75 GPA in the last 90 quarter units would require a GRE score of 988 and GPA score of 2.95 would need a GRE of 918;
3. Competence in the following prerequisite courses or their equivalents:
   A. MGMT 306. Expository Writing for Administration (with a grade of "B" or better)
   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.)

4. 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. This requirement is embedded in the application form. Please note that poor writing and/or an insufficient professional plan are grounds for declining admission to the program.

No more than 12 units of graduate credit earned in unclassified/conditionally classified standing may be counted toward meeting the requirements for the degree.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the school graduate director.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 20 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.P.A. advisor after achieving classified status;
4. Secured the approval of candidacy from the M.P.A. Graduate Director and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 36 units completed at this university;
2. At least 28 quarter units of credit taken after advancement to candidacy for the degree;
3. Successful completion of the required core and elective courses as outlined in the curriculum section;
4. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
5. Successful completion of the graduate research project. The graduate research project is defined as an advanced field study in public administration including both literary and empirical research. This requirement is met by the student's enrollment in PA 695 during the last quarter of work in the program and completion of the project to the satisfaction of the student's advisor.

OR

Successful completion of an integrative comprehensive examination. 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:

A. Repeat the examination, one additional time only, with the written approval of the Department's M.P.A. Graduate Director;

Note: With the written approval of the department's M.P.A. Graduate Director, students who do not receive a passing grade after repeating the examination may complete PA 695. Graduate Research Project.

OR

B. Complete PA 695. Graduate Research Project. The examination will be offered fall, winter and spring quarters. Only students who are currently classified, have been advanced to candidacy and are not on probation may take the examination.
6. In addition to satisfactory completion of the graduate entrance writing requirement (MGMT 306. Expository Writing for Administration with a grade of "B" or better), classified MPA students must satisfy the graduation writing requirement by:
   A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better, which require students to write in a manner appropriate for the discipline; and
   B. Preparation of an acceptable Graduate Research Project (PA 695);
   OR
   A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better which require students to write in a manner appropriate for the discipline; and
   B. PA 999. Comprehensive Examination (0) which requires acceptable expository writing skills;

7. Any additional general requirements not cited above and listed on Page 368.

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 650. Public Management Information Systems (4)
5. PA 662. Human Resource Management in the Public Sector (4)
6. PA 663. Public Budgeting and Finance (4)
7. PA 664. Management of Public Organizations (4)
8. PA 672. Administrative Regulation (4)
9. PA 680. Public Policy Analysis (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 or from related fields with advance approval from the chair of the Department of Public Administration. No more than eight units may be taken from 500-level courses.
11. 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)
   PA 611. Public Administration Theory and Practice (4)
   PA 615. Public Financial Management (4)
   PA 650. Public Management Information Systems (4)
   PA 662. Human Resource Management in the Public Sector (4)
   PA 663. Public Budgeting and Finance (4)
   PA 664. Management of Public Organizations (4)
   PA 672. Administrative Regulation (4)
   PA 680. Public Policy Analysis (4)
   PA 695. Graduate Research Project (4)
11. Eight 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.

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, 675, and 690 courses.

COURSE OFFERINGS IN PUBLIC ADMINISTRATION (PA)

Upper Division

501. Administrative Leadership

Theory and practice of leading public sector organizations. Topics include leader traits, skills, behaviors, development and evaluation. Formerly a topic under PA 590. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (4 units)

521. Principles of Planning

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. Prerequisite: the upper-division writing requirement. (4 units)

540. Introduction to Tribal Management and Governance

Roles, responsibilities and structure of tribal governments. The historical and legal underpinnings of the inter-governmental relations between the U.S. government and Indian tribes. Also explores relevant organization and management theories, concepts and tools as applied to the management of tribal governments. Formerly a topic under PA 590. (4 units)

542. Tribal Government Gaming and Economic Development

The historical and legal foundations and practices of tribal government gaming in the United States with particular attention focused on California. Includes an analysis of tribal governance, economic development, social and economic impacts of tribal government gaming. Formerly a topic under PA 590. (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. Prerequisite: the upper-division writing requirement. (4 units)

B. Data Base Management. Prerequisite: the upper-division writing requirement. (4 units)

C. Spread Sheet. Prerequisite: the upper-division writing requirement. (4 units)
D. Communication. Prerequisite: the upper-division writing requirement. (4 units)
E. Networking (4 units)
F. Special Problems. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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. Prerequisite: the upper-division writing requirement. (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 use of financial statements. (Also offered as ACCT 486. Students may not receive credit for both.) Prerequisite: ACCT 211 and the upper-division writing requirement. (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 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, du 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)
Basic concepts and techniques of politics and public relations between water agencies, the communities they serve, and other government entities. Problems and techniques in administering 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)

641. Federal Indian Law and Administration
Overview of federal Indian laws and policies from treaty making to present. Historical overview of political and legal frameworks, executive policies, and judicial decisions in the context of Indian affairs. Formerly a topic under PA 690. (4 units)

643. Public Policy Issues and American Indians
Public policy issues tribal nations face as they enter the twenty-first century, including: political sovereignty, economic development, constitutional reform, cultural and language maintenance and promotion, land and water rights, religious freedom, health and social welfare, and education. Emphasizes the breadth of issues that leaders must confront from health, education, and social services to politics, economics, and cultural change. Formerly a topic under PA 690. (4 units)

650. Public Management Information Systems
Fundamentals of Management Information Systems. Analysis of common MIS problems in the context of public organizations and solutions implemented to address them. Specific areas of study include technical foundations of information systems, strategic use of information resources, system development, system applications, information security, change management, and social and ethical issues involved with public information systems. Formerly PA 550 and a topic under PA 590. (4 units)

661. Government Systems Acquisitioning and Contracting
Introduces the principles and concepts that underlie successful acquisition management, as well as major systems development and production. Focuses on issues of large-scale acquisition systems and processes from the development of an initial capability or need through design, development, production, fielding, sustainment, and disposal. Formerly a topic under PA 690. (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, innovation and policy change, and ethics. (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 Acquisition Program Management
Examines the application of acquisition theory in defense systems. Topics include work breakdown structures, program schedules, management of risk related to acquisitions, contract planning and post-award activities, earned value tools, and evaluation practice. Prerequisite: PA 661. (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)

675. 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 675 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and department's internship coordinator. (4 units)

680. Public Policy Analysis
An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision-making. 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

Physical Sciences Building, Room 226

(909) 537-5339  health.csusb.edu

FACULTY: Dorothy Chen-Maynard, Kim Clark, Ted Coleman (Chair), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, Chris Lindfelt, Lal Mian, Robert Phalen

MASTER OF PUBLIC HEALTH

Requirements (56 units) (see Addendum for program changes)

The Master of Public Health is appropriate for health professionals furthering their careers 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, project, or 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;
5. The Test of English as a Foreign Language (TOEFL) for applicants whose education has been in a language other than English;
6. Paid professional experience in health and human services (preferred);
7. 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;
2. Complete 20 quarter units of core coursework with a minimum grade point average of 3.0 ("B");
3. 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;
4. 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

1. Advancement to candidacy for the degree and approval of the specific program of study;
2. A grade point average of 3.0 ("B") or better, in all graduate course work and research fulfilling the requirements of the Master of Public Health and grades of "B-" or better in all coursework;
3. A minimum of 56 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 (56 units)

Public Health Core (48 units)

1. HSCI 602. Management, Organization, and Planning (4)
2. HSCI 607. Cross-Cultural Aspects of Health (4)
3. HSCI 608. Health Research Methods (4)
4. HSCI 610. Social and Behavioral Influences on Public Health (4)
5. HSCI 611. Public Health System Organization and Delivery (4)
6. HSCI 612. Public Health Statistics (4)
7. HSCI 616. Environmental and Occupational Health (4)
8. HSCI 617. Epidemiology (4)
9. HSCI 665. Strategic Planning and Management (4)
10. HSCI 675. Administration Leadership, Team and Quality Development (4)
11. HSCI 685. Health Services Administration Capstone Seminar (4)

12. Four units chosen from one of the following options:
   Project
   1. HSCI 696. Project (4)
   Thesis
   1. HSCI 699. Thesis (4)
   Comprehensive Examination
   1. HSCI 999. Comprehensive Examination (0)
   2. Four units of HSCI courses approved by advisor.
Community Health Education (8 units)

1. HSCI 614. Health Education Practice (4)
2. Four units chosen from:
   - HSCI 605. Health Care Accounting and Financial Analysis (4)
   - HSCI 635. Communication and Human Relations in Health Services (4)
   - HSCI 645. Information and Technology Systems Management in Health Services (4)
   - HSCI 653. Health Law and Medical Ethics (4)
   - HSCI 689. Field Experience (2-8)

Health Science (HSCI) courses can be found on Page 497.
**REHABILITATION COUNSELING**

**Master of Arts in Rehabilitation Counseling**

*Accredited by the Council on Rehabilitation Education*

**Certificate**

Rehabilitation Counseling

**Department of Educational Psychology and Counseling**

College of Education, Room 243
(909) 537-5606  [www.csusb.edu/coe/programs/rehab_counseling/index.htm](http://www.csusb.edu/coe/programs/rehab_counseling/index.htm)

**FACULTY:**  Margaret Cooney (Emeritus), Connie McReynolds, Dwight Sweeney, Joseph Turpin

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**MASTER OF ARTS IN REHABILITATION COUNSELING**

**Requirements (72 units)**

The Master of Arts in Rehabilitation Counseling offered by the College of Education is designed to prepare students to work with individuals with disabilities in public and private rehabilitation agencies, hospitals, industry and related fields. The graduate program, a two-year course of study, will train students in rehabilitation counseling, vocational evaluation and job placement of persons with disabilities. Graduates of the program will be prepared to take the certified rehabilitation counselor examination.

Rehabilitation counseling is a growing field in the mental health and allied health professions. A rehabilitation counselor helps persons with disabilities achieve their optimal social, psychological and vocational potential. Whenever possible, the final goal of rehabilitation is job placement. The rehabilitation counselor works with people who have different disabilities. The handicaps may be physical, intellectual, emotional or sociocultural.

Students will be encouraged to develop areas of specialization by completing research of individual interest and field work experiences in specialization areas. The rehabilitation counseling program will also offer a bilingual rehabilitation counseling experience. The purpose for having a bilingual experience is that there is a demand in the rehabilitation profession for counselors to have the skills to speak and work with Hispanic clients. The mission of the bilingual rehabilitation counseling experience will be to educate students to be rehabilitation counselors who will be able to speak conversational Spanish with Hispanic clients, have an understanding of Hispanic culture and be aware of the special needs of Hispanic persons with disabilities.

**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major preferably in education psychology, sociology, or a related social service field;
2. A cumulative undergraduate grade point average of 3.0 ("B") overall;
3. Completion of the graduate entrance writing requirement;
4. A cumulative grade point average of 3.0 ("B") in all previous graduate work;
5. Completion of an interview with two faculty members to assess competence in interpersonal skills and aptitudes for the rehabilitation counseling profession;
6. Participation in a continual evaluation process which will assess personality, character, professional ethics, aptitudes, counseling skills, dispositions, oral and written language usage and other interests;
7. Students need to pass EREH 615 and 616A with a grade of "B" or better in each course.

**Advancement to Candidacy**

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Satisfactorily completed EREH 615 with a grade of "B" (3.0) or better;
3. Filed an approved Graduate Program Plan in consultation with the program advisor and coordinator;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the College and the Dean of Graduate Studies;
6. Submitted a proposal for the graduation writing requirement.

**Requirements for Graduation**

1. A minimum of 72 quarter units of acceptable work, with 59 completed in residence at this university;
2. A minimum of 48 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, including a minimum of a "B" in EREH 615 and 616A, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national Certification examination given by the Commission on Rehabilitation Counselor Certification in Schaumburg, Illinois.

**Degree Requirements (72 units)**

Rehabilitation counseling courses (68 units):

1. EREH 610. Research Assessment in Rehabilitation (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 655. Multicultural Counseling in Rehabilitation (4)
9. EREH 652. Dynamics of Human Behavior (4)
10. EREH 656. Counseling Theories and Techniques in Rehabilitation (4)
11. EREH 657. Counseling Practicum in Rehabilitation (4)
12. EREH 667. Practicum in Rehabilitation Counseling (4)
13. EREH 672. Seminar Topics in Rehabilitation Counseling (Topic examples: Casework Management, Research in Rehabilitation, Current Issues in Rehabilitation, and Multicultural Issues) (4)
14. EREH 678. Theory and Practice of Group Counseling in Rehabilitation (4)
15. EREH 679. Fieldwork in Rehabilitation Counseling (4) for a total of (12)

**Culminating Experience (4 units)**

1. EREH 695. Certified Rehabilitation Counselor Examination Preparation (4)
2. EREH 999. Comprehensive Examination (0) A grade of CR will be awarded upon successful completion of the Certified Rehabilitation Counselor (CRC) Examination.

Successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national Certification examination given by the Commission on Rehabilitation Counselor
COURSE OFFERINGS IN REHABILITATION COUNSELING (EREH)

Upper Division

610. Research and Assessment in Rehabilitation
Principles of research, research design, methods of data collection, introduction to personality, aptitude, achievement measurements relating to issues of significance to the field of rehabilitation. Observation data and measurement collection. Formerly EDUC 610. (4 units)

615. Introduction to Rehabilitation Counseling
Fundamental processes and practices of rehabilitation counseling including examination and analysis of the historical, philosophical, organizational, economic and legal basis of rehabilitation. Orientation and field visits to community rehabilitation counseling agencies required. Prerequisite: ECLG 531 or consent of instructor. (4 units)

616. Multiple Aspects of Disability
Orientation to community resources providing services to disabled persons. Multiple aspects of disabilities. Implications of disabilities for vocational adjustments and rehabilitation processes.
A. Medical. Prerequisite: EREH 615. (4 units)
B. Vocational. Prerequisite: EREH 616A or consent of instructor. (4 units)

617. Vocational Assessment and Development
Survey of methods of vocational assessment of disabled persons. Vocational development theories, occupational and career information systems and psychology of work. Prerequisites: EREH 615, 616A and 616B or consent of instructor. (4 units)

618. Applied Job Placement
Survey of methods and techniques of job placement with different client populations in rehabilitation settings. Job analysis, job seeking training skills, placement and follow-up for rehabilitation clients. Prerequisites: EREH 615, 616A, 616B and 617 or consent of instructor. (4 units)

649. Organizational Development of Rehabilitation Services
Various types of training, administration, developmental and job placement programs used in industry, public and private rehabilitation agencies and insurance companies. Prerequisites: EREH 615, 616A, 616B, 617 and 618 or consent of instructor. (4 units)

652. Dynamics of Human Behavior
Theories of learning and human growth and development using life-span 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)

655. Multicultural Counseling in Rehabilitation
Theory of and techniques of counseling skills to serve multi-ethnic populations relating to individuals with disabilities. Analysis of differing socio economic, racial, and social backgrounds of individuals with disabilities. Includes 20 hours of related practicum experience. May not be taken for credit by students who have received credit for ECLG 655. (4 units)

656. Counseling Theories and Techniques in Rehabilitation
Theories and techniques of counseling, application to rehabilitation settings; experiential orientation in working with individuals with disabilities. May not be taken for credit by students who have received credit for ECLG 656. Prerequisite: EREH 615 or consent of program coordinator. (4 units)

657. Counseling Practicum in Rehabilitation
Supervised practice in the application of counseling skills, theories and techniques working with individuals with disabilities. Includes 30 hours of related practice with individuals with disabilities. May not be taken for credit by students who have received credit for ECLG 657A. Prerequisites: EREH 615, 616A, and 666 or permission of the program coordinator. (4 units)
667. Practicum in Rehabilitation Counseling
Supervised practice in individual rehabilitation counseling in a laboratory setting. Prerequisites: ECLG 657A and 678 or consent of instructor. (4 units)

672. Seminar Topics in Rehabilitation Counseling
Seminar topics include research in rehabilitation, casework management, multicultural issues in rehabilitation and current issues in rehabilitation counseling. Students will complete a research paper which will meet the graduation writing requirement. May be repeated for credit as topics change. Formerly EREH 605. (4 units)

678. Theory and Practice of Group Counseling in Rehabilitation
Theories and techniques of group counseling in rehabilitation settings with individuals with disabilities. Includes 20 hours of related practicum experience in the field. May not be taken for credit by students who have received credit for ECLG 678. Prerequisites: EREH 615, 616A, 656 and 657 or permission of program coordinator. (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)

695. Certified Rehabilitation Counselor Examination Preparation
Preparation for the Certified Rehabilitation Counselor Examination. Graded credit/no credit. Prerequisites: completion of 48 units in the program and/or consent of the program coordinator. (4 units)

999. Comprehensive Examination
A grade of CR will be awarded upon successful completion of the Certified Rehabilitation Counselor (CRC) Examination. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS EDUCATION

Master of Science in Science, Technology, Engineering, and Mathematics Education

Department of Science, Mathematics and Technology Education

College of Education Building, Room 335, (909) 537-5290
www.csusb.edu/coe/departments/smte/index.htm

FACULTY: Eun-Ok Baek, Herbert Brunekhorst (Chair), Joseph Jesunathadas, Amy Leh, Brian Newberry, Ron Pendleton, Iris Riggs, Rowena Santiago, Joseph Scarcella, Donna Shea, Catherine Spencer

Science, Technology, Engineering, and Mathematics Education (STEM) are foundations for our nation and global economy. It is recognized at the international, national, and state level that Science, Technology, Engineering, and Mathematics (STEM) Education is a synergistic approach for preparing learners in 21st century environments.

This approach makes use of problem-based learning modalities, which are currently used by all existing programs in the department. STEM Education addresses the interconnections in STEM teaching and learning.

MASTER OF SCIENCE IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS EDUCATION

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 cumulative grade point average of 3.0 ("B") in all courses;
2. Completion of the graduate entrance writing requirement as described on Page 368. The writing requirement must be completed by the end of the second quarter in attendance;
3. Three letters of recommendation that address your ability to complete an academic program of this type;
4. Completion of 20 quarter units of science, or 18 quarter units of mathematics, or an undergraduate degree in a STEM related field, or permission of the Program Coordinator.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. No more than 12 quarter units may be completed without moving to classified status.

Advancement to Candidacy

In order to be advanced to candidacy a student must have the following:

1. Achieved classified standing;
2. Satisfactorily completed 16 units in the program including ESTM 510, 511, 512 and 680, with a grade of "B" or better in each course;
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator;
5. Satisfaction of the graduate entrance writing requirement.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate level work, with a minimum of 36 completed in this program;
2. A minimum of 24 units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the 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 of the Master's Degree Project or Thesis, ESTM 699, or the Comprehensive Examination ESTM 999;
5. Successful completion of one of the following three tracks.

Thesis Preparation, Presentation and Examination

The purpose of the thesis is twofold. First, it demonstrates that the student has articulated a Science, Technology, Engineering, and Mathematics Education design and development of 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 an appropriate culminating experience.

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. One faculty member on a committee may come from another college in the university. 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 ESTM 699 and the students, who do not complete the thesis in the quarter they registered, must be in continuous enrollment until the completion of their thesis. The student, upon completion of the thesis, must give a public presentation of the research at ESTM 681. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

1. ESTM 690. STEM Education: Advanced Research
2. ESTM 699. Master's Degree Project

A satisfactory thesis is one which reflects original works and shows a level of competence appropriate for a master's degree. A thesis is reported in the form of a paper. A thesis will be planned in consultation with the student's thesis committee and submitted in an approved format. Students must successfully complete ESTM 690. Further information is available from the Graduate Studies Office regarding the approved format.

Project Preparation, Presentation and Examination

The purpose of the project is twofold. First, it demonstrates that the student has articulated a Science, Technology, Engineering, and Mathematics Education design and development or 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 an appropriate culminating experience.

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. One faculty member on a committee may come from another college in the university. 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 ESTM 699 and the students, who do not complete the project in the quarter they registered, must be in continuous enrollment until the completion of their project. The student, upon completion of the project, must give a public presentation of
the research at ESTM 681. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

1. ESTM 690. STEM Education: Advanced Research
2. ESTM 699. Master's Degree Project
   A satisfactory project is one which reflects original work and shows a level of competence appropriate for a master's degree. A project can be reported in the form of a paper and/or through other media. A project will be planned in consultation with the student's thesis committee and submitted in an approved format. Students must successfully complete ESTM 690. Further information is available from the Graduate Studies Office regarding the approved format.

Comprehensive Written Examination
The written comprehensive examination is designed to test the student's ability to integrate the knowledge of the field of Science, Technology, Engineering, and Mathematics Education, to show critical and independent thinking, and to demonstrate mastery of the subject matter. 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. The student shall enroll in ESTM 999 after consultation with the graduate coordinator and during their last quarter for completion of the degree.
1. ESTM 999. Comprehensive Examination
2. Eight units of electives. A minimum of 36 units in courses numbered 500-600 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 that will not accept that work in its own advanced degree program.

Degree Requirements (48 units)
Core Courses (24 units)
1. ESTM 510. STEM Education: Perspectives and Philosophy (4)
2. ETEC 537. Computer Based Technology in Education I (4)
3. ETEC 501. Foundations of e-Learning (4)
4. ESTM 511. STEM Education: Instructional Design and Development (4)
5. ESTM 512. STEM Education: Foundations of Research (4)
6. ESTM 514. STEM Education: Technology Tools (4)
7. ESTM 681. STEM Education: Integration Seminar I (4)
8. ETEC 538. Critical Issues in Career and Technical Education (4)
9. ECTS 503. Contemporary Issues in Teaching Designated Subjects (4)
10. ECTS 501. Principles and Methods for Teaching Designated Subjects (4)
11. ESTM 680. STEM Education: Integration Seminar II (4)
12. ECTS 502. Instructional Support for Teaching Designated Subjects (4)
13. ECTS 504. Principles of Career and Technical Education (4)
15. ECTS 638. Critical Issues in Career and Technical Education (4)
16. ESTM 692. STEM Education: Service Learning Fieldwork (4)

Concentration (16 units)
1. Students must take one of the following concentrations:

Career and Technical Studies Concentration (16 units)
1. ECTS 637. Foundations in Career and Technical Education (4)
2. ECTS 638. Critical Issues in Career and Technical Education (4)
3. ESTM 535. Explorations of Technology (4)
4. Four units of electives chosen in consultation with an advisor.

Instructional Technology Concentration (16 units)
1. ESTM 535. Explorations of Technology (4)
2. ETEC 543. Technology and Learning I (4)
3. ETEC 548. Technology and Learning II (4)
4. Four units of electives chosen in consultation with an advisor.

K-8 Mathematics Education Concentration (16 units)
1. ESTM 625. STEM Education: Curriculum and Pedagogy for Algebra (4)
2. ESTM 626. STEM Education: Curriculum and Pedagogy for Geometry (4)
3. ESTM 628. STEM Education: Integrating Mathematics and Science in the K-8 Classroom (4)
4. ESTM 644. STEM Education: Inquiry Teaching and Learning in the Science, Environmental, and Mathematics Classroom (4)

K-8 STEM Integration Concentration (16 units)
1. One course from each concentration. A student needs a consultation with the faculty advisor or the program coordinator.
   a. Science and Environmental Education
   b. K-8 Mathematics Education
   c. Career and Technical Studies
   d. Instructional Technology

Science and Environmental Education Concentration (16 units)
1. ESTM 623. STEM Education: Science and Environmental Education Curriculum (4)
2. ESTM 628. Integrating Mathematics and Science in the K-8 Classroom (4)
3. ESTM 644. STEM Education: Inquiry Teaching and Learning in Science and Environmental Classroom (4)
4. ESTM 647. STEM Education: Topics in Science and Environmental Education (4)

Culminating Experience (8 units)
1. Student must take one of the following three tracks:
   Master's Thesis option
   1. ESTM 690. STEM Education: Advanced Research (4)
   2. ESTM 699. STEM Education: Master's Thesis/Project (4)

Master's Project option
1. ESTM 690. STEM Education: Advanced Research (4)
2. ESTM 699. STEM Education: Master's Thesis/Project (4)

Comprehensive Examination Option
1. ESTM 999. STEM Education: Comprehensive Examination (0)

2. Eight units of electives from the list below, chosen in consultation with advisor:

Career Technical Studies Concentration
ECTS 501. Principles and Methods for Teaching Designated Subjects (4)
ECTS 502. Instructional Support for Teaching Designated Subjects (4)
ECTS 503. Contemporary Issues in Teaching Designated Subjects (4)
ECTS 504. Principles of Career and Technical Education (4)
ECTS 508. Organization and Structure of Career and Technical Programs (4)
ECTS 509. Personnel Management in Career and Technical Programs (4)
ECTS 510. Fieldwork in Coordinating and Supervision of Career and Technical Programs (4)
ECTS 518. Field Work in Designated Subjects (4)
ECTS 519. Computer Applications for Career and Technical Educators (4)
ECTS 639. Professional Competencies in Career and Technical Studies (4)
ECTS 640. Topics in Education (2-4)
ESTM 548. STEM Education: Green Technology (4)
ESTM 613. STEM Education: Assessment (4)
ESTM 680. STEM Education: Integration Seminar I (4)
ETEC 676D. Advanced Topics in Instructional Technology (2-8)

Instructional Technology Concentration
ESTM 613. STEM Education: Assessment (4)
ESTM 680. STEM Education: Integration Seminar I (4)
ETEC 500. Foundations in Instructional Technology (4)
ETEC 501. Foundations of e-Learning (4)
ETEC 537. Computer Based Technology in Education I (4)
510. STEM Education: Perspectives and Philosophy
An overview of philosophy, perspectives and standards of Science, Technology, Engineering, and Mathematics (STEM) education that contribute to an integrated view of STEM education. (4 units)

511. STEM Education: Instructional Design and Development
Examination of instructional design process models that result in effective Science, Technology, Engineering, and Mathematics (STEM) education. Prerequisite: ESTM 510 or consent of instructor. (4 units)

512. STEM Education: Foundations of Research
Fundamentals of planning, designing, and conducting a research study. Will emphasize research methods including qualitative and quantitative in Science, Technology, Engineering, and Mathematics (STEM) education, frame research questions, review literature and library resources, and include descriptive and inferential statistics. Prerequisites: ESTM 510 and 511 or consent of program coordinator. (4 units)

514. STEM Education: Technology Tools
Introduction to various technology tools useful for use in STEM education. Prerequisite: ESTM 510. (4 units)

535. STEM Education: Exploration of Technology
Use of technology and technological systems for the understanding of the relationship between natural and human-made world. Prerequisite: ESTM 510 or consent of coordinator. (4 units)

548. STEM Education: Green Technology
Green technology with an emphasis in wind turbines, hydro-electric power, bio-fuels, environmental monitoring solar power, fuel cells, green construction, other related technologies and career paths. Prerequisite: ESTM 510 or consent of instructor. (4 units)

Graduate/Postbaccalaureate
May not be taken by undergraduate students.

613. STEM Education: Assessment
Assessment principles and techniques in STEM classrooms or workforce development/training with a focus on developing and using assessment instruments resulting in valid and reliable information for and of learning. Prerequisites: ESTM 510 and 680 or consent of program coordinator. (4 units)

623. STEM Education: Science and Environmental Education Curriculum
Examine, develop, and apply school science and environmental education curricula in formal and informal settings. Prerequisites: ESTM 510 and 511 or consent of program coordinator. (4 units)

624. STEM Education: Curriculum and Pedagogy in Elementary Mathematics
Advanced models for mathematics teaching and learning in elementary schools, including how students learn mathematics, and technology and resources to facilitate mathematics learning. Prerequisites: ESTM 510, ESTM 511, MATH 115 or equivalent, 301A, 301B, 301C, and 308 or consent of program coordinator. (4 units)

625. STEM Education: Curriculum and Pedagogy for Algebra
Topics building on college algebra courses, methods of teaching algebraic skills, procedures and concepts, and technology and resources to facilitate algebra learning. Prerequisites: ESTM 510, 511, and 624 or consent of program coordinator. (4 units)

626. STEM Education: Curriculum and Pedagogy for Geometry
Topics in Euclidean and non-Euclidean geometry. Technology and resources to facilitate geometry learning and fostering geometric thinking among K-8 students. Prerequisites: ESTM 510, 511, 624 and 625 or consent of program coordinator. (4 units)

628. STEM Education: Integrating Mathematics and Science in the K-8 Classroom
Integration of mathematics and science concepts using Science, Technology, Engineering, and Mathematics (STEM) education as a template for developing instruction and curriculum. Prerequisites: ESTM 510, 511, 624, 625, and 626 or consent of program coordinator. (4 units)

644. STEM Education: Inquiry Teaching and Learning in Science and Environmental Education
History of and research in inquiry teaching and learning for science and environmental education. Prerequisites: ESTM 510, 511 and 512 or consent of program coordinator. (4 units)

647. STEM Education: Topics in Science and Environmental Education
Selected methods and models that improve the teaching and learning in science and environmental education. (4 units)
680. **STEM Education: Integration Seminar I**
Interdisciplinary discussion of Science, Technology, Engineering, and Mathematics (STEM) education topics and issues, presentation of STEM projects. Prerequisite: ESTM 510 or consent of program coordinator. (4 units)

681. **STEM Education: Integration Seminar II**
Leadership development, utilizing a cross-disciplinary approach in Science, Technology, Engineering, and Mathematics (STEM) education requiring presentations and leading discussions in STEM related projects. Prerequisites: ESTM 510 and 680 or consent of program coordinator. (4 units)

690. **STEM Education: Advanced Research**
Advanced techniques in both quantitative and qualitative research methods, introduction to regression analysis, Excel spreadsheets, and SPSS conducting research in Science, Technology, Engineering, and Mathematics (STEM) education. Provides students with the knowledge and skills to complete their own research work. Prerequisites: ESTM 510, 511, and 512 or consent of program coordinator. (4 units)

692. **STEM Education: Service Learning Fieldwork**
Application of STEM education in field settings. Service learning in an educational setting - e.g., K-12, continuing education, professional development, and adult education. Requires a written agreement with a sponsoring agency and departmental approval of that agreement. Prerequisite: ESTM 613 or consent of program 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. **STEM Education: Master's Thesis/Project**
Independent graduate research or projects conducted under the direction of thesis or project committee. Prerequisites: ESTM 690, advancement to candidacy, approval of thesis/project by the student's advisory committee. (4 units)

999. **STEM Education: Comprehensive Examination**
An assessment of the student's ability to integrate the knowledge of STEM education, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: ESTM 680, completion of course work in the master's program, advanced to candidacy, approval of the department, and in good academic standing. Corequisite: ESTM 681. (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  csbs.csusb.edu

COORDINATOR: Timothy Pytell

MASTER OF ARTS IN SOCIAL SCIENCES
Requirements (46 units)

The objective of the M.A. in Social Sciences is to provide students with a survey of the concepts and ideas social scientists study with emphasis placed upon the domestic and international impact of globalization. While the program provides course work in the breadth of the social sciences, its emphasis is on history, political science, economics, sociology, anthropology, and geography. This program is especially attractive to those pursuing a career in or seeking advancement in secondary school and community college teaching in the social sciences. Those interested in work in other types of educational and social science related fields may also benefit from this program.

Admission to the M.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. A baccalaureate degree in a social science discipline or in social science itself, or another baccalaureate degree with course work that satisfies the College of Social and Behavioral Sciences that the student has received adequate preparation to undertake the program;
2. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 (“B”) in the major;
3. Completion of the graduate entrance writing requirement;
4. A brief statement describing the applicant’s preparation for graduate study and academic and professional goals, to be submitted to the College of Social and Behavioral Sciences;
5. Three letters of recommendation, with at least two from former professors. Letters should come directly from the recommender or be included in a placement file. It is the applicant's responsibility to determine if letters have been received.

Applicants who meet the general requirements of the university for admission to graduate study but do not meet the additional requirements listed above may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space permits, in graduate courses in the program. An unclassified postbaccalaureate student should consult with the College of Social and Behavioral Sciences to determine what steps would be necessary to advance to classified status.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the advisor, at least 12 quarter units of graduate course work at this university and achieved a minimum grade point average of 3.0 (“B”) in those courses;
4. Filed an approved program which must have the approval of the student's advisor and the coordinator of the program.

Requirements for Graduation

1. Completion of a minimum of 46 quarter units of acceptable graduate-level work, with at least 33 quarter units completed in residence at this university;
2. A grade of at least "B" in all Proseminars, and a grade point average of at least 3.0 (“B”) in all courses taken as part of the program;
3. To provide a breadth of content in this graduate program, a 300- or 400-level course may be used to satisfy a program requirement with the expectation that coursework is increased to satisfy the rigorous of graduate work;
4. Successful completion of the comprehensive examination or a thesis;
5. 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 697) requiring acceptable writing skills, or preparation of an acceptable graduate thesis (SSCI 699);
6. At least 23 units of 600-level courses;
7. Any additional requirements not cited above and listed on Page 368.

Comprehensive examination: Students who choose the comprehensive examination option must take that examination no earlier than in the second to the last quarter of program course work. These students must enroll in SSCI 697. 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 program coordinator and the student's advisor. The comprehensive examination will have two components. The first will be a general examination that covers the areas of social science treated in the course requirements with a special focus on globalization. The second will be a specific field and focus on the student’s specialization. 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, coordinator 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. At least one member of the thesis committee must also be affiliated with the Graduate faculty. The student should enroll in SSCI 699. Thesis, in the quarter when completion of the thesis is anticipated.

Degree Requirements (46 units)
Required Courses (26-28 units)
1. ANTH 600. Proseminar in Anthropology (4)
2. ECON 600. Proseminar in Economics (4)
3. GEG 600. Proseminar in Geography (4)
4. HIST 600. Proseminar in History (4)
5. PSCI 610. Proseminar in Political Science (4)
6. SOC 600. Proseminar in Sociology (4)
7. Two or four units chosen from:
   SSCI 697. Comprehensive Exam (2)
   SSCI 699. Thesis (4)
Electives (20-21 units)

1. Either SSCI 600 and 16 units of electives from one of the following tracks (eight units must be at the 500-level or above) or 20 units of electives from one of the following tracks (eight units must be at the 500-level or above).

**Track A (Disciplinary Concentration)**

1. Twenty units chosen from one of the following six disciplines:
   - Anthropology
   - Economics
   - Geography
   - History
   - Political Science
   - Sociology

Eight of these units can be Independent Study chosen from:

- ANTH 595. Independent Study (2-5)
- ANTH 695. Independent Graduate Study (2-5)
- ECON 595. Independent Study (1-4)
- ECON 695. Graduate Independent Study in Economics (2-4)
- GEOG 595. Independent Study (2-4)
- HIST 595. Independent Study (2-4)
- PSCI 595. Independent Study (2-4)
- SOCI 595. Independent Study (2-5)
- SSCI 695. Directed Graduate Studies (1-6)

Independent Study courses will involve research which builds on the methods and theories of the student's disciplinary concentration and contribute to the student's thesis/special field. All coursework must be chosen in consultation with the disciplinary advisor (members of the affiliated faculty representing the corresponding disciplines). All electives must be 300-level courses or above, and eight units of the elective courses must be at the 500-level or above.

**Track B (Regional Focus)**

1. Twenty units of elective coursework must consist of courses related to a geographical region of emphasis. Eight units can consist of an independent study. Independent Study courses will involve research which focuses on the student's regional emphasis and contribute to the student's thesis/special field. All coursework must be chosen in consultation with the coordinator of the program. All electives must be 300-level courses or above, and eight units of the elective courses must be at the 500-level or above.

Electives for Regional focus.

1. Twenty units of elective coursework on a particular topic chosen from the following (based on approval of the graduate coordinator):

**American Studies**

- ANTH 305. North American Prehistory (4)
- ANTH 315. Archeology of the Southwest and California (4)
- ANTH 312. Historical Archaeology (4)
- ANTH 323. Native North American Art (4)
- ANTH 351. Indians of North America (4)
- ANTH 352. Indians of the Southwest (4)
- ANTH 365. Asian American Cultures (4)
- ECON 421. Economic History of the United States (4)
- GEOG 322. United States and Mexico Border Issues (4)
- GEOG 323. North America (4)
- GEOG 440. Understanding the City (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 346. Women in the Black Freedom Movement (4)
- HIST 350. The American Colonies, 1607-1783 (4)

**European Studies**

- 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 400. Early Medieval Europe (4)
- HIST 401. Late Medieval Europe (4)
- HIST 402. Renaissance and Reformation (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 358. United States in World War II (4)
HIST 359. The United States, 1945-1980 (4)
HIST 360. American History Through Film (4)
HIST 565. Immigration and Ethnic American History (4)
PSCI 314. American Political Thought (4)
PSCI 320. The Legislative Process (4)
PSCI 325. American Foreign Policy (4)
PSCI 326. Political Parties and Interest Groups (4)
PSCI 328. Judicial Process (4)
PSCI 330. State and Local Politics (4)
PSCI 352. Minority Politics (4)
PSCI 410. American Constitutional Law (4)
PSCI 411. The Bill of Rights (4)
PSCI 412. Civil Rights (4)
PSCI 431. The American Presidency (4)
PSCI 528. Constitution Building (4)
PSCI 525. Constitutional Interpretation (4)
PSCI 535. Seminar in Constitutional Law (4)
SOC 330. Social Gerontology (4)
SOC 336. Black Women and Feminism (4)
SOC 341. Marriage and Family Among Blacks (4)
SOC 342. The Chicano Family (4)
SOC 425. Asian Americans. Origins and Ethnicity (4)
SOC 441. Black Social Stratification (4)
SOC 442. Chicano Social Stratification (4)
SOC 525. Indian Nations and Native America (4)

**African Studies**

- ANTH 302. African Archaeology (4)
- ANTH 357. African Societies (4)
- HIST 385. Africa to 1500 (4)
- HIST 386. Africa 1500 to 1870 (4)
- HIST 387. Africa 1870 to Present (4)
- HIST 388. The Rise, Decline, and Legacy of Apartheid Africa (4)
- HIST 450. History of Southern Africa (4)
- HIST 451. The History of Health and Medicine in Africa (4)
PSCI 301. African Politics (4)
PSCI 590. Seminar in International Relations (4) including topical Terrorism in Africa

**Asian Studies**

- ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
- ANTH 362. Peoples of Asia (4)
- ANTH 365. Asian American Cultures (4)
- ANTH 366. Filipino Cultural Expressions (4)
- HIST 426. Ancient and Early Imperial China (4)
- HIST 428. Medieval China (4)
- HIST 431. Modern China II, 1911-1949 (4)
- HIST 432. Modern China III, 1949-present (4)
- HIST 435. World War II in the Pacific (4)
- HIST 440. Modern Japanese History (4)
PSCI 305. East Asian Politics (4)
PSCI 540. Politics of East Asia (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)

ANTH 366. Filipino Cultural Expressions (4)

ANTH 380. Gender and Language (4)

ANTH 388. Language and Culture (4)

ANTH 480. Magic, Religion and Science (4)

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 430. International Economics (4)

ECON 435. Multinational Corporations (4)

ECON 450. Global Economy (4)

ECON 500. History of Economic Thought (4)

ECON 520. Social Economics (4)

ECON 573. Economics of Crime (4)

ECON 630. International Economic Issues (4)

GEOG 307. Transportation Issues and Development (4)

GEOG 320. Geography of Social Issues (4)

GEOG 321. Geography of the Developing World (4)

GEOG 323. Introduction to Public History (4)

GEOG 324. Introduction to Oral History (4)

GEOG 326. Historic Preservation (4)

GEOG 328. Museum and Archive Management (4)

GEOG 329. Topics in Public History (4)

GEOG 330. Topics in Oral History (4)

GEOG 360. American History Through Film (4)

GEOG 370. History of California (4)

GEOG 375. Museum Methods (4)

GEOG 376. Exhibit Design (4)

GEOG 377. Historical Documentaries (4)

GEOG 379. The History of Madness (4)

GEOG 380. History of World Religions (4)

GEOG 388. The Rise, Decline, and Legacy of Apartheid Africa (4)

HIST 451. The History of Health and Medicine in Africa (4)

HIST 467. Latin American History Through Film (4)

HIST 480. History of Christianity I (4)

HIST 481. History of Christianity II (4)

HIST 493. The History of Oil (4)

HIST 556. Foreign Relations of the United States (4)

PSCI 300. Western Political Systems (4)

PSCI 306. Developing Political Systems (4)

PSCI 311. Foundations of Modern Political Thought (4)
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. (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. (1-6 units)

697. Comprehensive Examination
Assessment of the student's ability to apply the theories, methods and understanding of the social sciences to the phenomena of globalization. Prerequisites: approval of the department, completion of a minimum of two thirds of the course work in the master's program, and in good academic standing. (2 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. Thesis
Independent graduate research resulting in thesis and successful defense. Prerequisites: advancement to candidacy and consent of program coordinator. (4 units)
SOCIAL WORK

Master of Social Work

Accredited by the Council on Social Work Education

School of Social Work

Social and Behavioral Sciences Building, Room 423
(909) 537-5501  socialwork.csusb.edu

FACULTY: Janet Chang, Thomas Davis, Ray Liles, Carolyn McAllister, Rosemary McCaslin, Teresa Morris, Herb Shon, Laurie Smith (Director and Graduate Coordinator), Rachel Strydom, Stanley Taylor

MASTER OF SOCIAL WORK

Requirements (90 units)

The School 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. It must be emphasized that an MSW program is very demanding of time and energy and requires 1080 hours of supervised placement in an agency Monday through Friday in the daytime over two academic years. 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.

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.

Admission to the Program

1. A baccalaureate degree from an accredited college or university;
2. A grade point average of 3.0 ("B") or better in all course work;
3. 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;
6. A year of full-time paid experience, one year internship in a social agency, or relevant volunteer service (this requirement may be waived);
7. 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;
2. Satisfied the general university requirements for advancement to candidacy;
3. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
4. Completed with a grade point average of 3.0 ("B"), at least 48 quarter units of course work;
5. Demonstrated academic and professional competence in field and classroom.

Requirements for Graduation

1. A minimum of 90 quarter units of designated graduate courses as approved on the petition for advancement to candidacy. Seventy-seven of the quarter units must be completed at this university (with the exception of MSW course work from an accredited program);
2. A grade point average of at least 3.0 ("B");
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 368.

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 has held full accreditation by the Commission on Accreditation of the Council on Social Work Education since February, 1992. Questions regarding accreditation should be directed to the director of the School of Social Work.

Residency

The student must carry an academic workload of a minimum of eight units of 500- or 600-level course work for three consecutive quarters to achieve the residency requirement of full-time graduate status as defined by the university.

Degree Requirements (90 units)

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: Foundation Field Work I (4)
   - SW 608B: Foundation Field Work II (4)
   - SW 608C: Foundation Field Work III (4)
6. Four units of electives, approved by advisor if taken outside the school.

Advanced Year (38 units)
1. Research (4 units)
   - SW 625A: Research Project I (2)
   - SW 625B: Research Project II (2)
2. Field (12 units)
   - SW 608D: Advanced Field Work I (4)
   - SW 608E: Advanced Field Work II (4)
   - SW 608F: Advanced Field Work III (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 III (2)
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. (1-4 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)

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. Foundation Field Work I. Field placement hours (160) and monthly seminar. (4 units)
B. Foundation Field Work II. Field placement hours (160) and monthly seminar. Prerequisite: SW 608A. (4 units)
C. Foundation Field Work III. Field placement hours (160) and monthly seminar. Prerequisite: SW 608B. (4 units)
D. Advanced Field Work I. Field placement hours (200) and monthly seminar. Prerequisite: SW 608C. (4 units)
E. Advanced Field Work II. Field placement hours (200) and monthly seminar. Prerequisite: SW 608D. (4 units)
F. Advanced Field Work III. Field placement hours (200) and monthly seminar. Prerequisite: SW 608E. (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. Prerequisite: SW 604B. (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. Prerequisite: SW 612. (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: SW 604B. (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. Prerequisite: SW 604B. (4 units)

618. Mental Health Seminar
Required for students who have been awarded the CALSWEC stipend. Includes CALSWEC competencies, addressing micro practice, cultural competence, HBSE, research, and workplace management. Must be repeated for a total of three units. (1 unit)

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: SW 604B. (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. I. Students gather data and complete initial stages of implementation of research project. Prerequisite: SW 613. (2 units)

B. II. Students complete data analysis, write the research report and present findings. Prerequisite: SW 625A. (2 units)

633. Social Work Intervention with the Elderly and Their Families
Intervention with the elderly and their families. Case management functions of social work practice with the elderly and their families as well as clinical interventions in problems often troubling the elderly. Prerequisite: SW 604B. (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. Prerequisite: SW 604B. (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. Prerequisite: SW 604B. (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. Prerequisite: SW 602C. (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. Prerequisite: SW 645. (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. Prerequisite: SW 646. (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. Prerequisite: SW 606C. (4 units)

656. Social Work Advanced Macro Practice II
Strategies for organizational/agency development and change. Social work roles addressed include supervisor, trainer/mentor, team leader and program evaluator. Formerly SW 651. Prerequisite: SW 655. (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. Prerequisite: SW 656. (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 646 and current enrollment in SW 647 and 657. (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 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 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. (0 units)
The following courses are 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.

600. **Proseminar in Sociology**
Survey of the concepts and ideas that sociologists employ to study, describe and analyze globalization. Prerequisite: consent of instructor. (4 units).

606. **Sociology of Terrorism**
Ideology, causes, development and sociological effects of terrorism in society. Also included are the histories of terrorist groups, social-psychological profiles of members, technology and modus operandi. (4 units)
SPANISH

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 flan.csusb.edu

COORDINATOR: Arturo Fernández-Gibert

MASTER OF ARTS IN SPANISH

Requirements (45 units)

The M.A. in Spanish focuses on the strengthening of the knowledge of Spanish teachers as well as of the intensive study of 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;
2. 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;
7. 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);
9. 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;
3. Completed a total of 16 to 20 quarter units of classes with an overall grade point average of 3.0 ("B");
4. Submission of appropriate documentation verifying knowledge of a language other than English or Spanish at either the 103 or third quarter (or equivalent) level.

Requirements for Graduation
1. Advancement to candidacy;
2. 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;
4. 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. 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 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)

Electives (16 units)
1. Sixteen units of electives chosen from Spanish 500- and 600-level courses. A maximum of eight units from SPAN 515, 516 or 517 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)

517. Seminar in Hispanic Linguistics
Advanced study of Spanish language and linguistics. May be repeated as topics change. Prerequisites: SPAN 302, 395, 415, and 416.
A. Grammar (4 units)
B. Dialectology (4 units)
C. Language in Society (4 units)
D. Teaching Methodology (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. (1-5 units)

Graduate/Postbaccalaureate

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)
562. 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)
E. The Neo-Picaresque Novel (4 units)
F. Neo-Colonialism (4 units)
G. Contemporary Film (4 units)

563. 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)

564. 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)

565. 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)

566. 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)

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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)
# THEATRE ARTS

## Master of Arts in Theatre Arts

**Department of Theatre Arts**  
Performing Arts Building, Room 111  
(909) 537-5876  
[theatre.csusb.edu](http://theatre.csusb.edu)

**FACULTY:** Carol Damgen, Michelle Ebert, Kathryn Ervin, Andre Harrington, Lee Lyons (Emeritus), Margaret Perry (Chair), William Peterson, Thomas Provenzano, Johanna Smith, Terry Smith

### MASTER OF ARTS 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:

1. A resume describing relevant professional and educational experience in Theatre and classroom teaching;
2. Three letters of recommendation attesting to academic aptitude and creative 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.

### 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;
2. Formed a three member advisory committee prior to completion of 16 units;
3. 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;
2. 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;
3. 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;
4. A capstone experience of a project or internship approved by the student's advisory committee and graduate coordinator;
5. Successful completion of TA 695 or 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)
   - TA 555. Independent Study (1-6)
   - TA 535. Independent Project (1-4)
   - TA 510. Studies of Major Figures and Genres (4)
   - TA 580. Advanced Creative Drama in the Classroom (4)
   - TA 579. Theatre in the Elementary Classroom (4)
   - TA 581. Theatre in the Secondary Classroom (4)
   - TA 582. Advanced Creative Drama in the Classroom (4)
   - TA 575. Internship in Theatre Arts (1-6)
   - TA 620. Applied Theatre Practicum (1-8) for a total of (4)
   - TA 683. Advanced Studies in Theatre for Youth (4)
   - TA 696. Advanced Internship (1-5)
3. Nine units chosen from:
   - TA 577. Internship in Theatre Arts (1-6)
   - TA 620. Applied Theatre Practicum (1-8) for a total of (4)
   - TA 683. Advanced Studies in Theatre for Youth (4)
   - TA 696. Advanced Internship (1-5)
4. Eight units chosen from:
   - TA 458. Theatre for Youth: History and Literature (4)
   - TA 483. Children's Theatre (4)
   - TA 646. Graduate Directing (4)
   - TA 681. Graduate Creative Drama (4)
   - TA 684. Graduate Reader's Theatre (4)
   - TA 686. Graduate Puppetry (4)
   - DAN 481. Creative Dance in the Classroom (4)
   - DAN 580. Advanced Creative Dance (4)
   - ENG 511. Creative Writing in the Secondary Classroom (4)
   - ENG 535. Multicultural Images in Children's Literature (4)
   - TA 401. History of Musical Theatre (4)
   - TA 445. The Camera Eye (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 Latina/o Theatre and Drama (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 555. Independent Study (1-6)
   - 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)
   - TA 694. Graduate Project Preparation (1-5)
   - TA 697. Thesis Preparation (1-5)
5. Twelve units chosen from:
   - DAN 450. Choreography (3)
   - DAN 481. Creative Dance in the Classroom (4)
   - DAN 580. Advanced Creative Dance (4)
   - ENG 511. Creative Writing in the Secondary Classroom (4)
   - ENG 535. Multicultural Images in Children's Literature (4)
   - TA 401. History of Musical Theatre (4)
   - TA 445. The Camera Eye (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 Latina/o Theatre and Drama (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 555. Independent Study (1-6)
   - 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)
   - TA 694. Graduate Project Preparation (1-5)
   - TA 697. Thesis Preparation (1-5)

### Culminating Experience (4 units)

1. Four units chosen from:
   - TA 695. Advanced Project (1-5)
   - 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)
526. Puppetry Workshop  
Advanced study of a selected puppetry topic, including but not limited to: puppet design, puppet construction, puppetry performance, directing puppetry, and international puppet traditions. May be repeated for credit. Six hours activity. Prerequisite: TA 356 or 486. (3 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. (1-4 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. (1-6 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. Prerequisite: consent of internship coordinator. (1-6 units)

597. Theatre in the Elementary Classroom  
Integrating aesthetic perception with creative expression in the elementary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within an elementary school classroom under the supervision of course instructor and classroom teacher. Prerequisite: TA 481 or 484 or consent of instructor. (4 units)

580. Advanced Creative Drama in the Classroom  
Advanced methods of teaching across the curriculum using process-oriented creative drama techniques. Course concentrates on fostering imagination and self-expression through pantomime, improvisation and play making. Course includes developing creative drama/educational units and lesson plans as well as practical experience in an educational setting. Requires a six hour field component including observation and participation in teaching at an approved setting. Prerequisite: TA 481. (4 units)

581. Theatre in the Secondary Classroom  
Integrating aesthetic perception with creative expression in the secondary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within a secondary school classroom under the supervision of course instructor and classroom teacher. Prerequisites: TA 302 or ENG 302, and TA 481 or 484. (4 units)

585. Senior Assessment  
Student preparation of portfolio and self-critiques of artistic/research projects which document academic progress. Formal presentation of this collected material to be evaluated by peers and faculty: Two hours activity. Graded credit/no credit. Prerequisite: senior status; must be taken in winter 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 technologies used in the creation of theatre. (1-8 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)

646. Graduate Directing  
Advanced studies in play directing, with a special emphasis on directing the high school performer. (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)

681. Graduate Creative Drama  
Studies in the theory and practice of creative drama with emphasis on drama structures, lesson and unit planning, and creative drama facilitation. Designed in accordance with California and National standards for the arts. (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)

684. Graduate Readers Theatre  
Studies in the 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. Additional focus on teaching elementary, middle, and high school students how to develop Readers Theatre scripts and performances. Designed in accordance with California and National standards for the arts. (4 units)

686. Graduate Puppetry  
Overview of puppetry as an interdisciplinary teaching tool in a variety of educational settings. Emphasis on lesson planning and performance techniques for teachers and arts educators. (4 units)
694. **Graduate Project Preparation**
Design and implementation of an advanced individual project on a specific topic relevant to student's program of study. Done under direct supervision. May be repeated for credit. Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing. (1-5 units)

695. **Advanced Project**
Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision. Prerequisite: advancement to candidacy. (1-5 units)

696. **Advanced 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. (1-5 units)

697. **Thesis Preparation**
Preparation for independent graduate research in theatre arts including proposal development and research. Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing. May be repeated for credit. (1-5 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. Cannot be used to satisfy degree requirements. Students who enroll in 698 through the university have full use of all university facilities. See Page 370, 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. 698 is a variable unit course, see Page 43 for fee schedule. Earned units are not degree-applicable nor will they qualify for financial aid. (0-6 units)

699. **Thesis**
Independent graduate research in theatre arts culminating in a written thesis. (4 units)
FACULTY
2012-2014

Susan L. Addington, 1988
Professor of Mathematics
B.S. 1976, Marlboro College;

Mark D. Agars, 1999
Professor of Psychology; Assistant Dean, College of Social and Behavioral Sciences
B.A. 1992, Sienna College;

Joyce C. Ahlgren, 2003
Lecturer in Mathematics
B.A. 1972, University California at Santa Barbara;
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Ece Algan, 2006
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B.S. 1994, Istanbul Teknik University;
M.A. 1996, Marmara University-Istanbul;
Ph.D. 2003, Ohio University.

Jennifer L. Andersen, 1996
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B.A. 1971, Iranian Institute of Advanced Accounting;
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B.A. 1980, San Francisco State University;
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B. Jill Brooker, 1981

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Allen Butt, 2002

Professor of Psychology; Special Consultant to the Provost

Cesar Caballero

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B.S. 1993, National Taiwan University;
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Ralph James Charkins, 1976
Professor of Economics
B.A. 1966, University of Santa Clara;

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David V. Chavez, 1988
Professor of Psychology
A.B. 1982, Harvard;

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Ph.D. 1988, Stanford University.

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Professor of Accounting and Finance, Emeritus, 2008

C. Charles Christie  
Professor of Public Administration, Emeritus, 2004

Michael Clarke  
Professor of Public Administration, Emeritus, 2006

John A. Conley  
Dean, College of Social and Behavioral Sciences, Emeritus, 2007

Leo P. Connolly  
Professor of Physics; Associate Dean, College of Arts and Letters, Emeritus, 2010

Frances Coles  
Professor of Criminal Justice, Emeritus, 2006

Margaret H. Cooney  
Professor of Education, Emeritus, 2010

Gloria A. Cowan  
Professor of Psychology, Emeritus, 2002

John H. Craig  
Professor of Chemistry and Biochemistry, Emeritus, 2005

Robert Cramer  
Professor of Psychology, Emeritus, 2011

Samuel M. Crowell  
Professor of Education, Emeritus, 2011

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

Edward J. Erler  
Professor of Political Science, Emeritus, 2009

Bertram H. Fairchild, Jr.  
Professor of English, Emeritus, 2005

Louis A. Fernández  
Professor of Geological Sciences; Provost and Vice President for Academic Affairs, Emeritus, 2009

Lanny B. Fields.  
Professor of History, Emeritus, 2004

Loren Filbeck  
Professor of Music, Emeritus, 2004

Susan M. Finsen  
Professor of Philosophy, Emeritus, 2009

Cheryl F. Fischer  
Professor of Education, Emeritus, 2006

Robert G. Fisk  
Professor of Education, Emeritus, 1973

Jerry Freischlag  
Professor of Kinesiology, Emeritus, 2001

Louise Fulton  
Professor of Education, Emeritus, 2001

Ernest García  
Professor of Education, Emeritus, 1990

Margaret K. Gibbs  
Professor of Administration, Emeritus, 1980
Morley Glicken  
Professor of Social Work, Emeritus, 2000

Mirta A. Gonzalez  
Professor of World Languages and Literatures, Emeritus, 2006

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

Christopher C. Grenfell  
Professor of Kinesiology, Emeritus, 2010

Richard Griffiths  
Professor of Education, Emeritus, 2000

Jeffrey D. Hackel  
Professor of Geography and Environmental Sciences, Emeritus, 2011

Joan T. Hallett  
Professor of Mathematics, Emeritus, 2006

Diane F. Halpern  
Professor of Psychology, Emeritus, 2001

Lee W. Hanson  
Professor and Associate Dean, College of Social and Behavioral Sciences, Emeritus, 2011

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

Carol P. Haviland  
Professor of English, Emeritus, 2009

John Heeren  
Professor of Sociology, Emeritus, 2007

Frederick Hebein  
Professor of Marketing, Emeritus, 2009

Craig E. Henderson  
Student Services Professional, Emeritus, 2004

Beverly L. Hendricks  
Dean, College of Arts and Letters, Emeritus, 2000

Linvol Henry  
Professor of Accounting and Finance, Emeritus, 2004

Mildred M. Henry  
Professor of Education, Emeritus, 1983

Jose S. Hernandez  
Professor of Education, Emeritus, 2009

Philip L. Herold  
Associate Professor of Psychology, Emeritus, 1992

Charles D. Hoffman  
Professor of Psychology, Emeritus, 2008

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

Jotindar S. Johar  
Professor of Marketing, Emeritus, 2010

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

Jeanne King  
Professor of Management, Emeritus, 2007

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
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Kenneth E. Lane
Professor of Education, Emeritus, 2006
Barbara D. Larrivee
Professor of Education, Emeritus, 2011
Robin Larsen
Professor of Communication Studies, Emeritus, 2010
Janice Layton
Professor of Nursing, Emeritus, 2000
Lynne Leach
Professor of Nursing, Emeritus, 2011
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
Janice Loutzenhiser
Associate Professor of Management, Emeritus, 2008
Joseph E. Lovett
Professor of Health Science and Human Ecology, Emeritus, 2006
Lee A. Lyons
Professor of Theatre Arts, Emeritus, 2008
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
Theodore R. McDowell
Professor of Geography and Environmental Studies, Emeritus, 2008
Larry E. McFatter
Professor of Music, Emeritus, 2010
George McGinnis
Professor of Art, Emeritus, 2010
Patrick McInturff
Professor of Management, Emeritus, 2010
Mary L. McGregor
Associate Professor of Nursing, Emeritus, 1992
Sarojam Mankau
Professor of Biology, Emeritus, 1994
Kenneth A. Mantei
Professor of Chemistry, Emeritus, 2005
Norton E. Marks
Professor of Marketing, Emeritus, 2005
Carolyn Martin
Professor of Kinesiology, Emeritus, 2004
Nancy Mary
Professor of Social Work, Emeritus, 2007
Audrey Mathews
Professor of Public Administration, Emeritus, 2006
Clark Mayo
Professor of English, Emeritus, 2001
Susan Meisenhelder
Professor of English, Emeritus, 2006
Thomas Meisenhelder
Professor of Sociology, Emeritus, 2004
Randi L. Miller
Professor of Sociology, Emeritus, 2009
Steven Mintz
Professor of Accounting and Finance, Emeritus, 2003
Mary E. Molle
Professor of Nursing, Emeritus, 2010
Clark Molstad
Professor of Management, Emeritus, 2010
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
James Mulvihill
Professor of Geography and Environmental Sciences, Emeritus, 2007
Art Nelson
Librarian, Emeritus, 1991
Frederick A. Newton
Professor of Psychology, Emeritus, 2005
Ruth A. Norton
Professor of Education, Emeritus, 2010
David H. Null
Associate Professor of Health Science and Human Ecology, Emeritus, 2002
C. Michael O’Gara
Professor of Physical Education, Emeritus, 1977
Shari Oliver
Student Services Professional, Emeritus, 2006
Walter Oliver
Professor of World Languages and Literature, Emeritus 2001
Theron Pace
Student Services Professional, Emeritus, 2003
E. Philip Page
Professor of English, Emeritus, 2006
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

Cynthia Paxton  
Professor of Health Science and Human Ecology, Emeritus, 2007

Clifford T. Paynton  
Professor of Sociology, Emeritus, 1992

Lloyd E. Peake  
Professor of Management, Emeritus, 2010

Dennis M. Pederson  
Professor of Chemistry and Biochemistry, Emeritus, 2010

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

Gregory L. Price  
Professor of Kinesiology, Emeritus, 2009

Reginald Price  
Professor of Kinesiology, Emeritus, 2005

Jerrold Pritchard  
Professor of Music, Emeritus, 2004

Johnnie Ann Ralph  
Dean, Library, Emeritus, 2007

Nabil Y. Razzouk  
Professor of Marketing, Emeritus, 2011

James Rogers  
Professor of Management, Emeritus, 2001

Nancy E. Rose  
Professor of Economics, Emeritus, 2010

Richard Rowland  
Professor of Geography and Environmental Sciences, Emeritus, 2007

Amanda Sue Rudisill  
Professor of Theatre Arts, Emeritus, 1997

Mireille G. Rydell  
Professor of World Languages and Literatures, Emeritus, 1988

Elisabeth Ryland  
Professor of Management, Emeritus, 2007

Judith M. Rymer  
Professor of Education, Emeritus, 2002

Ralph Salmi  
Professor of Political Science, Emeritus, 2007

Arthur Saltzman  
Professor of Marketing, Emeritus, 2000

Rowena Santiago  
Professor of Education, Emeritus, 2011

Christine Schalow  
Professor of Management, Emeritus, 2007

David Schalow  
Professor of Accounting and Finance, Emeritus, 2007

Ed Schneiderhan  
Student Services Professional, Emeritus, 2005

Peter R. Schroeder  
Professor of English, Emeritus, 2003

John Scribner  
Professor of Accounting and Finance, Emeritus, 2004

Dale K. Sechrest  
Professor of Criminal Justice, Emeritus, 2008

Robert Senour  
Professor of Education, Emeritus, 2000

Billie P. Sessions  
Professor of Art, Emeritus, 2008

Gary Sherwin  
Associate Professor of Education, Emeritus, 2010

David Shichor  
Professor of Criminal Justice, Emeritus, 1997

Kent Schofield  
Professor of History, Emeritus, 2001

Hossein Shalchi  
Professor of Accounting and Finance, Emeritus, 2004

A. I. Clifford Singh  
Professor of Kinesiology, Emeritus, 2010

Mary Jo Skillings  
Professor of Education, Emeritus, 2010

William L. Slout  
Professor of Theatre Arts, Emeritus, 1992

Alexander Sokoloff  
Professor of Biology, Emeritus, 1990

Gordon E. Stanton  
Professor of Education, Emeritus, 1990

Helena Villacres Stanton  
Associate Professor of Education, Emeritus, 1990

Robert G. Stein  
Professor of Mathematics, Emeritus, 2004

David Stine  
Professor of Education, Emeritus, 2001

Darleen K. Stoner  
Professor of Education, Emeritus, 2008

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

William Warehall  
Professor of Art, Emeritus, 1999

Del LaVerne Watson  
Professor of Nursing, Emeritus, 1989

Brian Watts  
Professor of Public Administration, Emeritus, 2004

Michael Weiss  
Associate Professor of Psychology, Emeritus, 2010

L. Curtis Westbrook, Jr.  
Professor of Accounting and Finance, Emeritus, 2004

Daniel Whitaker  
Professor of World Languages and Literatures, Emeritus, 2006

Edward M. White  
Professor of English, Emeritus, 1996

Linda D. Wilkin  
Associate Professor of Kinesiology, Emeritus, 2011

Franklin P. Williams III  
Professor of Criminal Justice, Emeritus, 2000

Ruth Wilson  
Professor of Biology, Emeritus, 2001

Janet Woerner  
Professor of Education, Emeritus, 2007

Alvin Wolf  
Professor of Education, Emeritus, 2002

Don Woodford  
Professor of Art, Emeritus, 2001

Joanna Worthley  
Professor of Psychology, Em, 2010

Clifford Young  
Professor of Public Administration, Emeritus, 2011

Donna M. Ziebarth  
Associate Professor of Nursing, Emeritus, 1994

Special Appointments

Jocelyn Hua-Chen Chang, 2010  
Studio Music Instructor  
D.M.A. 2009, University of Southern California.

Danielle Cummins, 2010  
Studio Music Instructor  
D.M.A. 2010, Claremont Graduate University.

Mary Dropkin, 2008  
Studio Music Instructor  
B.M. 1973, University of Southern California.

Stuart C. Green, 1998  
Studio Music Instructor  

Fredrick Greene, 2008  
Studio Music Instructor  

Larry Johansen, 2006  
Studio Music Instructor  
B.A., Fresno State University,  
M.M., University of Southern California.

Audrey Lamprey, 2010  
Studio Music Instructor  
B.M. 1967, Eastman School of Music;  
M.M. 1970 Bowling Green State University.

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.

Philip Rehfeldt, 2008  
Studio Music Instructor  
B.M. 1961, University of Arizona;  
M.M. 1962, Mount St. Mary's College.

Rebecca Tomlinson, 2004  
Studio Music Instructor  
B.M. 1996, University of Redlands;  

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  
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:

1. 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;
2. 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;
3. 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;
4. 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;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The way the school provides for Pell-eligible students to obtain or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
7. 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;
8. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
9. The terms and conditions of the loans students receive under the Direct Loan and Perkins Loan Programs;
10. The exit counseling information the school provides and collects for student borrowers; and
11. Contact the Office of Ombuds Services and Gender Equity, SU 202, 909-537-5625 for disputes concerning federal, institutional and private loans.

Information concerning the cost of attending California State University, San Bernardino is available from Roseanna Ruiz, director of financial aid, UH-151, University Hall, (909) 537-5227, and includes tuition and fees (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, director of financial aid, UH-151, University Hall, (909) 537-7800.

Information concerning special facilities and services available to students with disabilities may be obtained from Beth Jaworski, director of services to students with disabilities, Room 183, 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 Kevin Hatcher, director of athletics, HP-108, (909) 537-5211.

Information concerning teacher preparation programs, including the pass rate on teacher certification examinations, may be obtained from the Teacher Education Office, (909) 537-5603.

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. Jimmie Brown, chief of police, University Police, Room 125, (909) 537-5165.

Information concerning annual campus security report and annual fire safety report may be obtained from Mr. Jimmie Brown, chief of police, 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, 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 the 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 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.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University. All applications are thoroughly reviewed before a decision is made to deny a student admission to CSU San Bernardino. Applicants for admission are denied solely on the basis of their failure to meet admission requirements.

CSUSB is an impacted campus, so out of local area admissions criteria may apply. Applicants who are denied admission to CSU San Bernardino may appeal the decision in writing no more than 15 business days after the date the applicant was or should have reasonably been notified of denial by the Admissions Office. Applicants are to submit the written appeal to the Director of Admissions. Appeals will be reviewed and answered within 15 business days after the request for appeal has been received by the Admissions Office.
Determination of Residence for Nonresident Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay tuition on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University (CSU) are 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 material can be viewed on the Internet by accessing the CSU’s website at www.calstate.edu/GC/resources.shtml.

Each campus’s Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency 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 residency 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 residency 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 California address on federal tax returns, owning residential 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.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial dependence on parents or others who do not meet University requirements for classification as residents for tuition purposes. Financial independence is required, along with physical presence and intent, to be eligible for reclassification.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. Exceptions to the general residency 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, 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 on parents who cannot satisfy University requirements for classification as residents for tuition purposes, 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:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Determination Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September 20</td>
</tr>
<tr>
<td>Winter</td>
<td>January 5</td>
</tr>
<tr>
<td>Spring</td>
<td>April 1</td>
</tr>
<tr>
<td>Summer</td>
<td>July 1</td>
</tr>
</tbody>
</table>

CalState TEACH operates on a trimester system. The residence determination dates for CalState TEACH are as follows:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Determination Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September 20</td>
</tr>
<tr>
<td>Spring</td>
<td>January 5</td>
</tr>
<tr>
<td>Summer</td>
<td>June 1</td>
</tr>
</tbody>
</table>

Students classified as nonresidents may appeal a final campus decision within 120 days of notification by the campus. A campus residency 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 also 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 residency 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 most 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, 400 Maryland Avenue SW, Washington, D.C. 20202-5920.

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 organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

Career Placement

The Career Development Center may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

Student 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.

2. 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.

5. 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.

7. 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. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.

Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.

9. 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.
Appendix

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.

16. 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 performance 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.
   g. 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.

Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws
As referenced earlier in Section XXI, Student Conduct (15) (G) the penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or "statutory" damages affixed at not less than $750 and not more than $30,000 per work infringed. For "willful" infringement, a court may award up to $150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys' fees. For details, see Title 17, United States Code, Sections 504, 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to $250,000 per offense.

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 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 fi-
nancial 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 pos-
session of a controlled substance, the ineligibility period is for two
years.
• If convicted for the third time of an offense involving the posses-
sion 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.

Eligibility Index
The eligibility index (see below) is the combination of the high
school grade-point average and the score on either the American Col-
lege Test (ACT) or the Scholastic Aptitude Test (SAT). For this purpose,
the university computes the grade-point average on the final three
years of high school studies, excluding physical education and military
science, and uses bonus points for certain honors courses. CSU may
offer early, provisional admission based on work completed through
the junior year of high school and planned for the senior year.

Students may calculate the index by multiplying their grade-point
average by 800 and adding their total score on the SAT I. Or, if they
took the ACT, multiply their grade-point average by 200 and add ten
times the composite score from the ACT. California high school gradu-
ates (or legal residents of California for tuition purposes) need a mini-
mum 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 non-
residents) are exempt from the test requirements.

The CSU uses only the ACT score or the SAT mathematics and
critical reading scores in its admission eligibility equation. The SAT or
ACT writing scores are not currently used by CSU campuses.

Disclosure of Consumer Information
The Higher Education Act of 1965, as amended by the Higher
Education Opportunity Act of 2008, includes many disclosure and
reporting requirements for institutions of higher education. The un-
iversity complies with these mandates by publishing the "Disclosure of
Consumer Information – Your Right to Know," available on the
campus' Internet home page and by contacting the Director of Rec-
ords, Registration & Evaluations. The report is also sent by email
to all current and prospective students each term.

Topics in the document include: student rights under the Family
Educational Rights and Privacy Act (FERPA); financial aid informa-
tion; special facilities and services available to students with dis-
abilities; policy on transfer of credit and a link to course articulation
agreements with all public California colleges and universities; infor-
mation on student body diversity; types of employment obtained by
graduates; typical degrees sought after graduation; retention rates of
first-time freshmen; prevention of drug and alcohol abuse; campus
security policies and crime statistics under the Clery Act; procedure
for reporting missing persons; how to designate an emergency con-
tact person; emergency response and evacuation procedures; the
campus fire safety report; policies regarding vaccinations; policies

Eligibility Index Table for California High School Graduates or Residents of California

<table>
<thead>
<tr>
<th>GPA</th>
<th>ACT Score</th>
<th>SAT Score</th>
<th>GPA</th>
<th>ACT Score</th>
<th>SAT Score</th>
<th>GPA</th>
<th>ACT Score</th>
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<th>GPA</th>
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<td>1150</td>
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</table>
on copyright infringement and cheating; how to obtain textbooks; equitable opportunities for student-athletes; and the procedure for filing a discrimination, harassment, or retaliation complaint.

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 publications 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 abridgment 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.

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.

Average Support Cost per Full-Time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student (FTES) 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 FTES. The total CSU 2012/13 budget amounts were $2,010,652,000 from state General Fund (GF) appropriations (not including capital outlay funding) and before adding $51.4 million CalPERS retirement adjustment, $1,497,474,000 from tuition fee revenue after rollback to 2011/12 tuition fee rates and after tuition fee discounts (forgone revenue), and $386,604,000 from other fee revenues for a total of $3,894,730,000. The number of 2012/13 FTES is 331,716 resident target and 14,328 non-resident students for a total of 346,044 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and nonresident students. FTES 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 2012/13 average support cost per FTES based on GF appropriation and net tuition fee revenue only is $10,389 and when including all sources as indicated below is $11,506, which includes all fee revenue in the CSU Operating Fund (e.g. tuition fees, application fees, and other campus mandatory fees). Of this amount, the average net tuition fee revenue per FTES is $6,061.

Changes in the budget Act of 2012/13 final budgets (adjusted for rollback to 2011/12 tuition fee rates). Revenues are divisible by resident and nonresident students (346,044 FTES).

The average CSU 2012/13 academic year, resident, undergraduate student basic tuition fee and other mandatory fees required to apply to, enroll in, or attend the university after rollback to 2011/12 tuition fee rates is $6,602 ($5,472 2011/12 FY tuition fee plus 2012/13 $1,130 average campus-based fees). 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.

Refund of Mandatory 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, less an administrative charge established by the campus, 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.

<table>
<thead>
<tr>
<th>2012/13 Amount</th>
<th>Average Cost per FTES</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>GF</td>
<td>2,010,652,000</td>
<td>60,81</td>
</tr>
<tr>
<td>Tuition Fee Revenue1</td>
<td>1,497,474,000</td>
<td>4,327</td>
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<tr>
<td>Other Fees Revenue2</td>
<td>386,604,000</td>
<td>1,117</td>
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<tr>
<td>Total Support Cost</td>
<td>3,894,730,000</td>
<td>11,506</td>
</tr>
</tbody>
</table>

1 Represents state GF appropriation in the Budget Act of 2012/13; GF is divisible by resident students only (331,716 FTES).
2 Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2012/13 final budgets (adjusted for rollback to 2011/12 tuition fee rates). Revenues are divisible by resident and nonresident students (346,044 FTES).
Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code Section 89300). 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. 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. Student body association fees support a variety of cultural and recreational programs, child care centers, and special student support programs. 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). 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.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum as established by Executive Order 1054, Section III. The campus President may use alternative 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 adjust campus-based mandatory fees, but must request the Chancellor to establish a new mandatory fee.

For more information or questions, please contact Rosa H. Renaud, Financial Manager, Financing and Treasury in the CSU Chancellor’s Office, at (562) 981-4570 or renaud@calstate.edu.

Recommendations on Attire for Students in On-campus Simulation or Clinical Supervision Classes

Departments or programs may provide recommendations for professional attire in on-campus simulation or clinical supervision classes provided:

1. Such standards for attire are established by the Professional Association affiliated with that department or program;
2. Recommendations are communicated to students at the time of admission to the professional program and are further delineated in the course syllabi for the simulation or clinical supervision courses;
3. All such recommendations for attire in demonstration or clinical supervision courses on campus provide reasonable accommodations for traditional ethnic, cultural or religious attire.

Nondiscrimination Policy (see Addendum for current information)

Race, Color, Ethnicity, National Origin, Age, Religion and Veteran Status

The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, religion or veteran status in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. Sandra Vasquez has been designated to coordinate the efforts of CSUSB to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. Inquiries concerning compliance may be presented to this person at Services to Students with Disabilities, University Hall, Room 183, (909) 537-5238.

Sex/Gender/Gender Identity/Sexual Orientation

The California State University does not discriminate on the basis of sex, gender, gender identity or sexual orientation in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. Tera Bisbee, Title IX Coordinator and Director of Ombuds and Gender Equity, has been designated to coordinate the efforts of CSUSB to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance should be presented to this person in the Santos Manuel Student Union, Room 202, (909) 537-5635.

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, Discrimination, Assault and Retaliation

The California State University, San Bernardino is committed to maintaining a working and learning environment free from sexual harassment and discrimination in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibits discrimination on the basis of sex in an educational institution’s academic, educational, extracurricular and athletic activities (both on and off campus) and protects all people regardless of their gender or gender identity from sexual harassment and violence, which are forms of sex discrimination.

Allegations which are made against students, faculty, staff, applicants or third parties associated with the campus should be referred to the Title IX Coordinator and Director of Ombuds and Gender Equity, Tera Bisbee, Santos Manuel Student Union, Room 202, (909) 537-5635, tbisbee@csusb.edu. She will coordinate the efforts within CSUSB and comply with all applicable federal and state laws.

Inquiries Concerning Compliance

Inquiries concerning compliance or the application of these laws to programs and activities of CSUSB should be referred to the specific campus officer(s) identified above or to the Regional Director of the Office for Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francis, California 94105.

Filing a Discrimination, Harassment and Retaliation Complaint by a Student

Executive Order 1074 was established to provide students/applicants for admission a systemwide procedure to file complaints alleging violations of the California State University (CSU) systemwide policy prohibiting discrimination, harassment and retaliation against students by the CSU, a CSU employee, another student and/or a Third Party. Protected statuses include: disability, gender, nationality, race or ethnicity, religion, sexual orientation, age, genetic information and/or veteran status.

Information and filing forms concerning a discrimination, harassment and retaliation complaint against the university, its employees, another student and/or a Third Party by a student may be obtained from the Office of the Vice President for Student Affairs. The policy and filing forms can also be accessed at studentaffairs.csusb.edu/policies.html.
No student is precluded by Executive Order 1074 from filing a complaint at any time with the U.S. Department of Education, Office for Civil Rights, 50 Beale Street, Suite 7200, San Francisco, CA 94105, telephone (415) 486.5555, TDD 877.521.2172, or in court where civil law remedies, including but not limited to injunctions, restraining orders or other remedies or orders, may also be available.

Student Email Policy

The University intends to replace many of the letters sent to students via the U.S. Postal Service with email communications. As a result, it is strongly recommended that students check their email accounts daily. The consequences of not checking email are the same as those for not checking U.S. Postal mailbox. Some of these consequences include missing payment deadlines, missing registration deadlines, missing immunization requirements, missing out on opportunities for financial aid, and missing requirements and deadlines for graduation.

Students are responsible for the consequences of not reading university-related communications sent to their email account. Students have the responsibility to recognize that certain communications may be time-critical. Errors in forwarding email to a personal email address or failure to read emails regularly are not acceptable reasons for missing university deadlines.

Students have the responsibility to clean their email accounts and avoid emails being rejected due to limited space in their account. The policy can be accessed at policies.csusb.edu/email.htm.

Student Complaint Procedure

The California State University takes very seriously complaints and concerns regarding the institution. If you have a complaint regarding the CSU, you may present your complaint as follows:

1. If your complaint concerns CSU’s compliance with academic program quality and accrediting standards, you may present your complaint to the Western Association of Schools and Colleges (WASC) at www.wascenior.org/comments. WASC is the agency that accredits the CSU’s academic program.

2. If your complaint concerns an alleged violation by CSU of a state law, including laws prohibiting fraud and false advertising, you may present your claim to the campus president or designee at [name, title, and e-mail address]. The president or designee will provide guidance on the appropriate campus process for addressing your particular issue.

If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by the president or designee, or by WASC, you may file an appeal with the Associate Vice Chancellor, Academic Affairs at the CSU Chancellor’s Office. This procedure should not be construed to limit any right that you may have to take civil or criminal legal action to resolve your complaint.
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