Course Catalog 2014-2015

CSUSB

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President's Welcome

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 CSUSB website (http://www.csusb.edu) or CSUSB News website (http://news.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
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Welcome


Although every effort has been made to assure the accuracy of the information, students and others should note that the laws, rules, policies, programs and courses change from time to time and that these changes may alter the information contained in the 2014-15 Bulletin of Courses.
About the Bulletin

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. Additional information is available in the Changes in Rules and Policies (p. 101) statement. Supplementary bulletins contain additional information about extended learning. The Class Schedule, issued prior to each quarter, lists courses to be offered during that term.

Inquiries about admission to the university should be directed to:

Director of Admissions and Student Recruitment (https://admissions.csusb.edu)
California State University, San Bernardino
5500 University Parkway
San Bernardino, CA 92407-2397
(909) 537-5200

Bulletin
Vol. 50, No. 1, May 2014

California State University, San Bernardino is accredited by:
Western Association of Schools and Colleges
985 Atlantic Avenue, Suite 100
Alameda, CA 94501
(510) 748-9001
The CSU System

Welcome to the California State University (CSU) – the largest comprehensive higher education system in the nation with 23 unique campuses serving more than 437,000 students with 44,000 employees statewide. Each year, the university awards nearly 100,000 bachelor’s, master’s and doctoral degrees. CSU graduates now total nearly 3 million strong, and are serving as leaders in the industries that drive California’s economy, including business, agriculture, entertainment, engineering, teaching, hospitality and healthcare. Learn more at the Cal State University web site. (http://www.calstate.edu)

More than 50-year tradition of excellence

Academic excellence has been achieved by the CSU through a distinguished faculty whose primary responsibility is superior teaching. While each campus is unique based on its curricular specialties, location and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through extensive industry partnerships and robust campus auxiliaries, the CSU is expanding programs, internships and workforce training opportunities to ensure CSU students are ready with the critical thinking skills, industry knowledge and hands-on experience for employment and career advancement.

Facts

• CSU faculty attract more than $500 million annually in research and education grants, and contracts by federal, state and regional agencies.
• 1 in every 10 employees in California is a CSU alumnus.
• The CSU awards 45 percent of the bachelor’s degrees earned in California.
• More than half of all the nurses in the state earn their degrees from the CSU.
• The CSU awards 95 percent of the hospitality/tourism degrees in the state.
• Nearly half of all of the state’s engineers earn their degrees from the CSU.
• The CSU is the leading provider of teacher preparation programs in the state.
• The CSU offers 105 fully online degree programs through Calstate Online (http://bulletin.csusb.edu/csu-system/www.calstateonline.net).
• The CSU offers 3,250 online courses to provide more educational options to students who may prefer an online format to a traditional classroom setting.
• The CSU’s growing online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU system.
• The CSU serves more than 5,000 individuals annually through professional development certificate programs in educational health services, business and technology, leisure and hospitality, manufacturing, international trade, and many other industries.
• For every $1 that the state invests in the CSU, the university generates $5.43 for California’s economy.

Governance

The system is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU Chancellor is the chief executive officer, reporting to the Board. The campus presidents serve as the campus-level chief executive officers. The Trustees, Chancellors and presidents develop systemwide educational policy. The presidents, in consultation with the Academic Senate and other campus stakeholder groups, render and implement local policy decisions.

CSU Historical Milestones

The individual California State Colleges was established as a system with a Board of Trustees and a Chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 23 campuses, including 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.

In 1963, the State Academic Senate was established to act as the official voice of CSU faculty in systemwide matters. Also, the California State College Student Presidents Association—which was later renamed the California State Students Association—was founded to represent each campus student association on issues affecting students.

Through its many decades of existence, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU’s core mission has always focused on providing high-quality, affordable bachelor’s and master’s degree programs, over time the university has added a wide range of services and programs to support student success—from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

To improve degree completion and accommodate students working full- or part-time, the educational paradigm expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

The CSU marked another significant educational milestone when it broadened its degree offerings to include doctoral degrees. The CSU independently offers educational doctorate (Ed.D.), Doctor of Physical Therapy (DPT), and Doctor of Nursing Practice (DNP) degree programs. A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

In 2010, in an effort to accommodate community college transfer students, the university, in concert with the California Community Colleges, launched the Associate Degree for Transfer, which guarantees transfer students admission to the CSU with junior status.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU initiated another milestone in 2013, when it launched Cal State Online, a systemwide collection of services that support the delivery of fully online programs.
from campuses. Now, full-time students also have access to fully online courses offered at other CSU campuses.

The CSU is dynamic and ever changing to ensure a quality higher education to the students of California. With 23 campuses, 437,000 students and 44,000 faculty and staff, the CSU plays a critical role in preparing outstanding candidates for the job market. The CSU is committed to continually developing innovative programs, services and opportunities that will give students the tools they need to meet their full potential.

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

Appointed Trustees

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.

• Roberta Achtenberg (2015)
• Talar Alexanian (2015)
• Rebecca Eisen (2018)
• Douglas Faigin (2017)
• Debra S. Farar (2014)
• Margaret Fortune (2016)
• Lupe Garcia (2020)
• Steven M. Glazer (2019)
• William Hauck (2017)
• Bob Linscheid (2013)
• Lou Monville (2014)
• Hugo N. Morales (2020)
• J. Lawrence Norton (2019)
• Steven Stepanek (2015)
• Cipriano Vargas (2014)

Officers of the Trustees

• President: The Honorable Edmund G. Brown, Jr.
• Chair: Bob Linscheid
• Secretary: Framroze Virjee
• Treasurer: Sally F. Roush (Interim)

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
Long Beach, CA 90802-4210
(562) 951-4000
Cal State University website (http://www.calstate.edu)

• Dr. Timothy P. White, Chancellor, CSU System
• Sally F. Roush, Interim Executive Vice Chancellor and Chief Financial Officer
• Dr. Ephraim P. Smith, Executive Vice Chancellor and Chief Academic Officer
• Dr. Framroze Virjee, Executive Vice Chancellor and General Counsel
• Mr. Garrett Ashley, Vice Chancellor, University Relations and Advancement
• Ms. Gail E. Brooks, Vice Chancellor, Human Resources
• Ms. Christine Helwick, General Counsel
• Mr. Larry Mandel, University Auditor

CSU Campuses

California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, CA 93311-1022
Dr. Horace Mitchell, President
(661) 654-2782 Bakersfield website (http://www.csub.edu)

California State University, Channel Islands
One University Drive
Camarillo, CA 93012
Dr. Richard Rush, President
(805) 437-8400 Channel Islands website (http://www.csuci.edu)

California State University, Chico
400 West First Street
Chico, CA 95929
Dr. Paul J. Zingg, President
(310) 898-4636 Chico website (http://www.csuchico.edu)

California State University, Dominguez Hills
1000 East Victoria Street
Carson, CA 90747
Dr. Willie Hagan, President
(530) 243-3696 Dominguez Hills website (http://www.csudh.edu)

California State University, East Bay
25800 Carlos Bee Boulevard
Hayward, CA 94542
Dr. Leroy M. Morishita, President
(510) 885-3000 East Bay website (http://www.csueastbay.edu)

California State University, Fresno
5241 North Maple Avenue
Fresno, CA 93740
Dr. Joseph I. Castro, President
(559) 278-4240 Fresno website (http://www.csufresno.edu)

California State University, Fullerton
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.

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
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 university 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 Records, 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 information; special facilities and services available to students with disabilities; policy on transfer of credit and a link to course articulation agreements with all public California colleges and universities; information 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 contact person; emergency response and evacuation procedures; the campus fire safety report; policies regarding vaccinations; policies 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.

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.
The CSU System

### 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, childcare 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.

### 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 WASC website (http://www.wascsenior.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.

### International Programs

CSU International Program website (http://calstate.edu/IP)

CSUSB Center for International Studies and Programs website (http://international.csusb.edu/Default.aspx)

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 abroad destinations 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)

- **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**
  - 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, Universidad de Jaén

- **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 or courses 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 and must fulfill all coursework prerequisites.

Some programs also have language study and/or other coursework prerequisites. Additional information and application materials may be obtained from Elva Salgado, Study Abroad Coordinator, (909) 537-3204, CE-349, or by writing to the California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit us at the Cal State University International Programs web site (http://www.calstate.edu/ip).
About the University

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.
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. 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.

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. Navigate to Programs A-Z (p. 159) for a complete listing of the degrees and programs available at the university.

CSUSB Philanthropic Foundation

(909) 537-7769 CSUSB Philanthropic Foundation website (http://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.
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.

Directors

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- Dave Stockton
- Bruce Varner, Esq.
- Ellen Weisser ’68, Vice Chairperson

Administrative Officers

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Director, Institutional Research Muriel Lopez-Wagner, Ph.D.
Director, Ombuds Services and Tera Bisbee, M.A.
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Interim Chief Diversity Officer J. Milton Clark, Ph.D.
Provost and Vice President for Academic Affairs Andrew Bodman, Ph.D.
Associate Provost, Academic and Jenny Zorn, Ph.D.
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Director, Center for International Paul Amaya, M.A.
Studies and Programs
Faculty Director, Center for Rueyling Chuang, Ph.D.
International Studies and Programs
Associate Provost, Research Jeffrey Thompson, Ph.D.
<table>
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<tr>
<th>Position</th>
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<tr>
<td>Director, Research and Sponsored Programs</td>
<td>Rachel Weiss, Ph.D.</td>
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<td>Director, Research and Sponsored Programs</td>
<td>Diane Trujillo, B.A.</td>
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<td>Administration</td>
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<td>Assistant Dean, Graduate Studies</td>
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<td>Associate Vice President, Undergraduate</td>
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<td>Services</td>
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<td>Faye Wong, B.A.</td>
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<td>Qiana Wallace, M.A.</td>
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<td>Director, S.A.I.L. Program</td>
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<td>Director, Writing Center</td>
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<td>David Marshall, Ph.D.</td>
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<td>Dean, College of Business and Public</td>
<td>Lawrence Rose, Ph.D.</td>
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<td>Administration</td>
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<td>Associate Dean for International Programs</td>
<td>Frank Lin, Ph.D.</td>
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<td>Dean, College of Extended Learning</td>
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<td>Associate Dean, International Extension</td>
<td>Jack Paduttin, D.B.A.</td>
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<td>Programs</td>
<td>Deirdre Caruthers, M.A.</td>
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<td>Interim Dean, CSUSB Palm Desert Campus</td>
<td>David Maynard, Ph.D.</td>
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<td>Associate Dean</td>
<td>Doris Wilson, Ed.D.</td>
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<td>Special Assistant to the Provost</td>
<td>Jodie Ullman, Ph.D.</td>
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<td>Director, Teaching Resource Center</td>
<td>Kim Costino, Ph.D.</td>
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<td>Director, Office of Community Engagement</td>
<td>Diane Podolske, Ph.D.</td>
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<td>University Librarian, Dean, Pfau Library</td>
<td>Cesar Caballero, M.L.S.</td>
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<td>Coordinator, Collection Development</td>
<td>Lisa Bartle, M.L.I.S.</td>
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<td>Coordinator, Public Services</td>
<td>Les Kong, M.L.S., M.B.A.</td>
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<td>Coordinator, Electronic Resources and Serials</td>
<td>Stacy Magedanz, M.L.S.</td>
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<td>Coordinator, Reference</td>
<td>Barbara Quarton, M.L.I.S.</td>
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<tr>
<td>Coordinator, Special Collection/Archives</td>
<td>Jill Vassilakos-Long, M.L.S.</td>
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<tr>
<td>Vice President for Administration and Finance</td>
<td>Robert Gardner, M.P.A.</td>
<td></td>
</tr>
<tr>
<td>Associate Vice President for Finance</td>
<td>Monir Ahmed, M.B.A.</td>
<td></td>
</tr>
<tr>
<td>Budget Officer</td>
<td>Dena Chester, B.A.</td>
<td></td>
</tr>
<tr>
<td>Director of Accounting</td>
<td>Deletta Anderson, B.S., C.P.A.</td>
<td></td>
</tr>
<tr>
<td>Assistant Director of Accounting</td>
<td>Matias Farre, M.B.A.</td>
<td></td>
</tr>
<tr>
<td>Assistant Vice President, Auxiliary and Business Services, Risk Management</td>
<td>Deborah Burns, B.S.</td>
<td></td>
</tr>
<tr>
<td>Associate Vice President, Human Resources</td>
<td>Cesar Portillo, M.B.A.</td>
<td></td>
</tr>
<tr>
<td>Associate Director, Human Resources</td>
<td></td>
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</tr>
<tr>
<td>Director, Athletics</td>
<td>Kevin Hatcher, Ed.D.</td>
<td></td>
</tr>
<tr>
<td>Director, Capital Planning, Design and</td>
<td>Hamid Azhand, B.S.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associate Director, Capital Planning, Design,</td>
<td>B. Michael Wahl, M.A.</td>
<td></td>
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<tr>
<td>Construction</td>
<td></td>
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<tr>
<td>Director, Environmental Health and Safety</td>
<td>Jon Mohoroski, M.P.A.</td>
<td></td>
</tr>
<tr>
<td>Director, Auxiliary Financial Services</td>
<td>Lisa Iannolo, B.A.</td>
<td></td>
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<tr>
<td>Director, Parking and Transportation Services</td>
<td>Ron Profeta, B.A.</td>
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<tr>
<td>Director, Procurement and Support Services</td>
<td>Kathy Hansen, M.A.</td>
<td></td>
</tr>
<tr>
<td>Senior Director, Facilities Services</td>
<td>Tony Simpson, HNC</td>
<td></td>
</tr>
<tr>
<td>Associate Director, Facilities Services</td>
<td>Kevin Doyle, B.S.</td>
<td></td>
</tr>
<tr>
<td>University Police Chief</td>
<td>Jimmie Brown, B.S.</td>
<td></td>
</tr>
<tr>
<td>Vice President and Chief Information Technology Services</td>
<td>Samuel Sudhakar, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Associate Vice President, Operations and Customer Support</td>
<td>Gerard Au, B.S.</td>
<td></td>
</tr>
<tr>
<td>Interim Director, Academic Technologies and Innovation</td>
<td>Amy Leh, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Assistant Director, Academic Technologies and Innovation</td>
<td>Steven Waldman, M.A.</td>
<td></td>
</tr>
<tr>
<td>Director, Administrative Computing and Business Intelligence</td>
<td>Lenora Rodgers, B.S.</td>
<td></td>
</tr>
<tr>
<td>Director, Creative Media Services</td>
<td>Michael Ross, B.A.</td>
<td></td>
</tr>
</tbody>
</table>
### About the University

**Director, Enterprise Applications and Technology Support**  
Jim O'Linger, B.A.

**Director, Information Security and Emerging Technologies**  
Javier Torner, Ph.D.

**Vice President for Student Affairs**  
Brian Haynes, Ph.D.

- **Director, Children’s Center**  
  Barbara Kirby, M.A.
- **Director, Student Conduct and Ethical Development**  
  Sandra Vasquez, Ed.D.
- **Director, Student Health and Psychological Counseling Centers**  
  Patricia Smith, Dr.PH.

**Associate Vice President, Enrollment Services**  
Olivia Rosas, M.A.

- **Director, Admissions**  
  Arlene Reed, M.A.
- **Director, Financial Aid**  
  Roseanna Ruiz, M.P.A.
- **Director, Records, Registration and Evaluations**  
  Grace Dempsey, M.P.A.
- **Director, Student Recruitment and Visitor Services**  
  Christine Degano, M.Ed.

**Associate Vice President for Student Development**  
Helga Kray, M.P.A.

- **Director, Career Center**  
  Larry Burns, M.A.
- **Director, Housing and Residential Life**  
  Lovellie Almogela, M.S.
- **Director, Orientation and First Year Experience Program**  
  Brian Willess, M.S.
- **Director, Recreational Sports**  
  Rick Craig, M.S.
- **Director, Services to Students with Disabilities**  
  Beth Jaworski, Ph.D.
- **Director, Student Leadership and Development**  
  Mark Hartley, M.A.
- **Director, Threat Assessment**  
  Rob Morgan, Psy.D.
- **Director, Work Ability IV**  
  Beth Jaworski, Ph.D.
- **Executive Director, Santos Manuel Student Union**  
  Mark Day, B.M.
- **Interim Director, Associated Students, Inc.**  
  Shannon Stratton, 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**  
  Linda Hunt, M.A.
- **Senior Director of Development and Director, Development for College of Natural Sciences**  
  Richard Jarvis, B.A.
- **Director, Development for Athletics**  
  Richonette “Ricki” McManuis, B.S.
- **Director, Development for College of Social and Behavioral Sciences**  
  Cecilia “Toni” Callicot, M.A.
- **Director, Development for Palm Desert Campus**  
  Vicli Bevard, B.S.
- **Director, Alumni Affairs**  
  Teri Carlos, B.A.
- **Director, Advancement Services**  
  Mark Day, B.M.
- **Director, Annual Giving and Constituent Management**  
  Shannon Stratton, M.S.
- **Director, Prospect Management and Research**  
  Norelia Hueerta
Palm Desert Campus

TELEPHONE: 760-341-2883
WEBSITE: Palm Desert Campus Bulletin website (http://PDC.CSUSB.EDU)

Administration
Interim Dean: David F. Maynard, Ph.D.
   dmaynard@csusb.edu
Associate Dean: Doris Wilson, Ed.D.
   dwilson@csusb.edu

Mission statement
The Palm Desert Campus will be a community of scholars committed to the teaching-learning process which values diversity, emphasizes quality, and commits to serving the region. It will reach out to students through face-to-face classrooms, distributed learning, and online programs. It will continue to seek collaborative partnerships to integrate educational, cultural, social, technological, and economic life with the region. It will strive to meet critical regional and state needs and provide responsible and creative leadership for the future.

General Information
Over twenty-five years ago, Coachella Valley civic leaders began to call for a local public four-year college. The group’s efforts lead to California State University, San Bernardino establishing a branch campus on the College of the Desert campus. From the beginning, our efforts were to serve Coachella Valley students locally with programs that met local needs. In 2002 we moved to our permanent location on Cook Street.

We offer our students the resources of a large, comprehensive university through the San Bernardino campus. At the same time, the Palm Desert Campus offers the supportive environment of a small campus with small classes and more opportunities for contact with instructional faculty.

Whether you are looking for a 4-year degree, to enhance your professional skills, or complete one of our many degree, credential, or certificate programs, you will find everything you need at the CSUSB Palm Desert Campus. Our commitment to quality and small class sizes allows us to provide an educational experience that is enriching, as well as convenient.

Our schedule operates on the quarter system (fall, winter and spring) with courses 11 weeks long. We also offer a summer term.

Facilities
The CSUSB Palm Desert Campus is located on a 120-acre site off the I-10 freeway. The first building constructed and occupied in 2002 was the Mary Stuart Rogers Gateway Building, funded by the Mary Stuart Rogers Foundation, the Berger Foundation, the City of Rancho Mirage and Florence Rigdon, a Rancho Mirage resident. Housing the university’s administrative offices, the building also has over 3,000 square feet of classroom space, faculty offices, 120 seat Oliphant Auditorium, book store, the Rancho Mirage Student Center, and distant learning laboratories.

The second and third buildings, the Indian Wells Center for Educational Excellence and Indian Wells Theater, were occupied in 2005 and built largely with funds from the City of Indian Wells, The Annenberg Foundation, the H.N. and Frances C. Berger Foundation, Palm Desert National Bank, and Jean Hahn and John I. Hardy.

The Palm Desert Health Sciences Building, noted as one of the most environmentally sound buildings in the Coachella Valley, opened in 2008. Donors for this building included eight of the Valley’s municipalities as well as the County of Riverside, The Desert Healthcare District, the R.D. and Joan Dale Hubbard Foundation, The Webb Foundation, Palm Desert National Bank, and other community members. This facility houses the Helene A. Hixon Information Resource Center, biology and chemistry labs, nursing labs, the R.D. and Joan Dale Hubbard Student Health and Psychological Counseling Center, as well as additional classrooms and computer labs.

These buildings include state of the art classrooms, faculty offices, video conference classrooms, full computer and internet presentation capabilities in all classrooms, as well as computer laboratories for student research and allows for study individually or in groups.

Admissions
To apply for admission to the CSUSB Palm Desert Campus, students must complete the CSUMentor application online at CSU Mentor website (http://www.csumentor.edu) and have transcripts sent to:

CSUSB Palm Desert Campus Office of Admissions
37500 Cook Street
Palm Desert, CA 92211

You can also watch the admissions video at Palm Desert Campus website (http://www.pdc.csusb.edu) to learn more about CSUSB PDC. For further admissions information, please contact a PDC Admissions Counselor.

Freshman and Transfer Students, please contact Brenda Machuca
760-341-2883 ext. 78111, bmachuca@csusb.edu

Transfer Students from College of the Desert, please contact Crystal Rodriguez, M.S.
760-341-2883 ext. 78146, crodrig@csusb.edu

Financial Aid & Scholarships
The Palm Desert Campus has a financial aid consultant that is on campus on a weekly basis to assist with questions, applications, and other issues pertaining to financial aid and scholarships.

John Anderson, Ph.D.
760-341-2883 ext. 78122, andersoj@csusb.edu

The Palm Desert Campus offers various scholarships that are limited to PDC students. These include, but are not limited to, the Athena Fund Scholarship, the Coeta & Donald Barker Scholarship for nursing students, and the Betty Barker Scholarship.

Other highlighted scholarships include:

The Mary Stuart Rogers Scholarship awards ten to twenty $3,600 scholarships each to CSUSB Palm Desert Campus students. Students are eligible if enrolled in a major offered at PDC, with a majority of their
coursework completed at PDC, maintaining a minimum 3.5 cumulative GPA and demonstrating a commitment to service in the community

A $10,000 gift from the City of Palm Desert honored President Albert Karnig upon his retirement by establishing the President Albert Karnig Academic Excellence Scholarship. The scholarship provides support for high achieving undergraduate students who are enrolled full time on the Palm Desert Campus with 12 or more units and who have a minimum G.P.A. of 3.5.

The Pathways to Success Program awards scholarships 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.

There are many scholarships available for PDC students that are administered by the CSUSB Financial Aid Office. They can be applied for online at the Financial Aid website (https://finaid.csusb.edu) beginning January 1st through March 2nd of each year. You can also search for off-campus scholarship opportunities using the “Search” feature on My Coyote.

Commencement

The CSUSB Palm Desert Campus holds its own commencement exercises each spring in the Agua Caliente Casino and Spa at The Show. These exercises occur prior to commencement exercises at the San Bernardino campus.

College of Extended Learning

The College of Extended Learning (CEL) (http://cel.csusb.edu) helps learners of all ages and backgrounds achieve their continuing education goals by providing access to University degrees, certificate programs, professional development and personal enrichment programs. Some classes are offered at the CSUSB Palm Desert Campus, while others are offered at the San Bernardino campus and many courses are offered online.

Osher Lifelong Learning Institute

The Osher Lifelong Learning Institute (http://cel.csusb.edu/osopherLL) offers non-credit, six week university level courses for mature adults interested in the intellectual challenge of academic subjects without the stress of grades, tests or homework. Through your membership in the Osher Institute, you can experience the joy of learning from university professors and similarly qualified experts within a relaxed campus atmosphere. A wide array of topics will be available each quarter: fall, winter, spring and summer.

Palm Desert Campus Programs & Advising

Bachelor’s Four-Year Degree Programs

Business Administration: Management (http://pdc.csusb.edu/businessAdministration.html)

Advisor: Cynthia Schreihans
760-341-2883 ext. 78151, cschreih@csusb.edu

BA in Administration: Management Concentration (p. 359)

Business Administration: Accounting (http://pdc.csusb.edu/businessAdministration.html)

Advisor: Dr. Richard Lillie
760-341-2883 ext. 78158, rillie@csusb.edu

BA in Administration: Accounting Concentration (p. 353)

Business Administration: Marketing

Advisor: Dr. Eric Newman
760-341-2883 ext. 78241, enewman@csusb.edu

BA in Administration: Marketing Concentration (p. 359)

Communication (http://pdc.csusb.edu/communication_studies.html)

Advisor: Dr. Robert Leo
760-341-2883 ext. 78148, rleo@csusb.edu

BA in Communication (p. 209)

Criminal Justice (http://pdc.csusb.edu/criminal_justice.html)

Advisor: Ruth Howell
760-341-2883 ext. 78110, rhowell@csusb.edu

BA in Criminal Justice (p. 737)

English (http://pdc.csusb.edu/english.html)

Advisor: Dr. Chad Luck
760-341-2883 ext. 78137, cluck@csusb.edu

BA in English (p. 232)

History (http://pdc.csusb.edu/historyBA.html)

Advisor: Ruth Howell
760-341-2883 ext. 78110, rhowell@csusb.edu

BA in History (p. 766)

Liberal Studies (http://pdc.csusb.edu/liberal_studies.html)

Advisor: Katherine Thomerson
909-537-3865, kthomers@csusb.edu

BA in Liberal Studies, Integrated Track (p. 340)

Nutrition & Food Sciences (http://pdc.csusb.edu/nutrition.html)

Advisor: Dr. Dorothy Chen-Maynard
909-537-5340, dchen@csusb.edu

BS in Nutrition & Food Sciences (p. 634)

Psychology (http://pdc.csusb.edu/psychology.html)

Advisor: Robert Cupp
760-341-2883 ext. 78149, rcupp@csusb.edu
California State University, San Bernardino

Bachelor's Transfer Degree Programs

Art: Graphic Design & Marketing (http://pdc.csusb.edu/art.html)

Advisor: Ruth Howell
760-341-2883 ext. 78110, rhowell@csusb.edu

BA in Graphic Design & Marketing (p. 191)

Business Administration: Management (http://pdc.csusb.edu/businessAdministration.html)

Advisor: Cynthia Schreihans
760-341-2883 ext. 78151, cschreih@csusb.edu

BA in Administration: Management Concentration (p. 359)

Business Administration: Accounting (http://pdc.csusb.edu/businessAdministration.html)

Advisor: Dr. Richard Lillie
760-341-2883 ext. 78241, enewman@csusb.edu

BA in Administration: Accounting Concentration (p. 353)

Business Administration: Marketing

Advisor: Dr. Eric Newman
760-341-2883 ext. 78241, enewman@csusb.edu

BA in Administration: Marketing Concentration (p. 359)

Career & Technical Studies (http://pdc.csusb.edu/careerTechEdProg.html)

Advisor: Alice Pedersen
760-341-2883 ext. 78109, apederse@csusb.edu

BA in Career & Technical Studies (p. 556)

BS in Career & Technical Studies (p. 557)

Communication (http://pdc.csusb.edu/communication_studies.html)

Advisor: Dr. Robert Leo
760-341-2883 ext. 78148, rleo@csusb.edu

BA in Communication (p. 209)

Criminal Justice (http://pdc.csusb.edu/criminal_justice.html)

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Advisor: Ruth Howell
760-341-2883 ext. 78110, rhowell@csusb.edu

BA in History (p. 766)

Liberal Studies (http://pdc.csusb.edu/liberal_studies.html)

Advisor: Katherine Thomerson
909-537-3865, kthomers@csusb.edu

BA in Liberal Studies, Integrated Track (p. 340)

Nursing (http://pdc.csusb.edu/BSN.html)

Advisor: Asma Taha
909-537-3394, ataha@csusb.edu

Bachelor's of Science in Nursing (BSN) (p. 678)

Nutrition & Food Sciences (http://pdc.csusb.edu/historyBA.html)

Advisor: Dr. Dorothy Chen-Maynard
909-537-5340, dchen@csusb.edu

BS in Nutrition & Food Sciences (p. 634)

Psychology (http://pdc.csusb.edu/psychology.html)

Advisor: Robert Cupp
760-341-2883 ext. 78149, rcupp@csusb.edu

BA in Psychology (p. 803)

Kinesiology (Allied Health Professions) (Fall 2015)

Credential Programs

- Education Administration, Tier 1 (http://pdc.csusb.edu/educationAdmin-Tier1.html)
- Designated Subjects: Career and Technical Studies & Adult Credential (http://pdc.csusb.edu/designatedSubjects-CareerTechnical.html)
- Multiple Subject (http://pdc.csusb.edu/multiple_subject_credential_program.html)
- Pupil Personnel Services (http://pdc.csusb.edu/ppsSchoolCounseling.html)
- Reading/Language Arts Specialist (http://pdc.csusb.edu/readingSpecialist.html)
- Single Subject (http://pdc.csusb.edu/single_subject_credential_program.html)

Certificate Programs

- e-learning (http://pdc.csusb.edu/eLearning.html)
Masters Programs

- Accountancy 3:2 (http://pdc.csusb.edu/accountancy.html)
- Public Administration (http://pdc.csusb.edu/public_administration.html)
- Social Work (http://socialwork.csusb.edu/majorsprograms/pdep)
- Math & Science Education (http://coe.csusb.edu/programs/mathScienceEd)
- Career and Technical Education (http://pdc.csusb.edu/careerTechnicalEducation.html)
- Counseling and Guidance (http://pdc.csusb.edu/counselingGuidance.html)
- Education Administration (http://pdc.csusb.edu/educationalAdmin.html)
- Instructional Technology Education (http://pdc.csusb.edu/instructionalTechnology.html)
- Reading/Language Arts Education (http://pdc.csusb.edu/readingLanguageArts.html)
- Teaching English to Speakers of other languages (TESOL) (http://pdc.csusb.edu/tesolMA.html)

Doctoral Program

- Educational Leadership (http://coe.csusb.edu/programs/edDedLeadership)

Palm Desert Campus General Advising

Lower Division Advisor

Avisinia Rodriguez, M.A.
760-341-2883 ext. 78253, arodrigu@csusb.edu

Upper Division & Transfer Advisor

Ruth Howell
760-341-2883 ext. 78110, rhowell@csusb.edu
Accreditation

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

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

- Administration (B.A., B.S., M.B.A.)-AACSB International, The Association to Advance Collegiate Schools of Business
- Art (B.A.)-National Association of Schools of Art and Design
- Chemistry (B.S.)-American Chemical Society
- Computer Science (B.S.)-Accreditation Board 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
# Academic Calendar

## Fall Term 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1</td>
<td>Last day to file or refile graduation check for Winter 2015 graduation without payment of late fee</td>
</tr>
<tr>
<td>May 22-June 13</td>
<td>Fall Quarter 2014 Priority Registration</td>
</tr>
<tr>
<td>Sept. 17</td>
<td>Beginning of academic year</td>
</tr>
<tr>
<td>Sept. 24</td>
<td>Last day to withdraw from all classes and receive 100% refund</td>
</tr>
<tr>
<td>Sept. 25</td>
<td>Classes begin (Saturday classes begin Sept. 27)</td>
</tr>
<tr>
<td>Oct. 1</td>
<td>Last day to add classes via My Coyote Self-Service</td>
</tr>
<tr>
<td>Oct. 13</td>
<td>Columbus Day, university open (observed Dec. 31)</td>
</tr>
<tr>
<td>Oct. 15</td>
<td>CENSUS: Last day to drop classes without record</td>
</tr>
<tr>
<td>Nov. 3</td>
<td>Last day to file or refile graduation check for June 2015 graduation without payment of late fee</td>
</tr>
<tr>
<td>Nov. 11</td>
<td>Veteran’s Day, university and library closed</td>
</tr>
<tr>
<td>Nov. 27-30</td>
<td>Thanksgiving recess, university and library closed</td>
</tr>
<tr>
<td>Dec. 5</td>
<td>Last day of classes (Saturday classes end Dec. 6)</td>
</tr>
<tr>
<td>Dec. 8-13</td>
<td>Final examinations</td>
</tr>
<tr>
<td>Dec. 13</td>
<td>Commencement</td>
</tr>
<tr>
<td>Dec. 16</td>
<td>Grades due; end of term</td>
</tr>
<tr>
<td>Dec. 24-Jan.4</td>
<td>Academic recess, campus closed, University and library close at noon on Dec. 24</td>
</tr>
</tbody>
</table>

### Winter Term 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Jan. 5</td>
<td>Last day to file or refile graduation check for Summer 2015 graduation without payment of late fee</td>
</tr>
<tr>
<td>Jan. 9</td>
<td>Last day to withdraw from all classes and receive 100% refund</td>
</tr>
<tr>
<td>Jan. 12</td>
<td>Classes begin (Saturday classes begin Jan. 10)</td>
</tr>
<tr>
<td>Jan. 16</td>
<td>Last day to add classes via My Coyote Self-Service</td>
</tr>
<tr>
<td>Jan. 17-19</td>
<td>Martin Luther King, Jr. birthday, university and library closed</td>
</tr>
<tr>
<td>Feb. 2</td>
<td>CENSUS: Last day to drop classes without record</td>
</tr>
<tr>
<td>Feb. 2</td>
<td>Last day to file or refile graduation check for Fall 2015 graduation without payment of late fee</td>
</tr>
<tr>
<td>Feb. 12</td>
<td>Lincoln’s Birthday, university open (observed Dec. 28)</td>
</tr>
<tr>
<td>Feb. 16-Mar.9</td>
<td>Spring Quarter 2015 Priority Registration</td>
</tr>
<tr>
<td>Feb. 23</td>
<td>Washington’s Birthday, university open (observed Dec. 29)</td>
</tr>
<tr>
<td>March 23</td>
<td>Last day of classes (Saturday classes end March 21)</td>
</tr>
<tr>
<td>March 24-28</td>
<td>Final examinations</td>
</tr>
<tr>
<td>March 30</td>
<td>Grades due; end of term</td>
</tr>
<tr>
<td>March 30-April 3</td>
<td>Academic recess</td>
</tr>
<tr>
<td>March 31</td>
<td>Cesar Chavez Holiday, university and library closed</td>
</tr>
</tbody>
</table>

### Spring Term 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>April 3</td>
<td>Last day to withdraw from all classes and receive 100% refund</td>
</tr>
<tr>
<td>April 6</td>
<td>Classes begin (Saturday classes begin April 4)</td>
</tr>
<tr>
<td>April 10</td>
<td>Last day to add classes via My Coyote Self-Service</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 24</td>
<td>CENSUS: Last day to drop classes without record</td>
</tr>
<tr>
<td>May 1</td>
<td>Last day to file or refile graduation check for Winter 2016 graduation without payment of late fee</td>
</tr>
<tr>
<td>May 4-20</td>
<td>Summer Quarter 2015 Priority Registration</td>
</tr>
<tr>
<td>May 21-June 12</td>
<td>Fall Quarter 2015 Priority Registration</td>
</tr>
<tr>
<td>May 23-25</td>
<td>Memorial Day, university and library closed</td>
</tr>
<tr>
<td>June 15</td>
<td>Last day of classes (Saturday classes end June 13)</td>
</tr>
<tr>
<td>June 16-20</td>
<td>Final examinations</td>
</tr>
<tr>
<td>June 18-21</td>
<td>Commencement</td>
</tr>
<tr>
<td>June 23</td>
<td>Grades due; end of term</td>
</tr>
</tbody>
</table>

## Summer Term 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 23</td>
<td>Last day for full refund, Sessions Regular and 6W1</td>
</tr>
<tr>
<td>June 24</td>
<td>Classes begin, Sessions Regular and 6W1</td>
</tr>
<tr>
<td>June 26-Sept. 13</td>
<td>Campus closed each Friday, Saturday, and Sunday</td>
</tr>
<tr>
<td>June 25</td>
<td>Last day to add via MyCoyote, 6W1</td>
</tr>
<tr>
<td>June 30</td>
<td>Last day to add via MyCoyote, Session Regular</td>
</tr>
<tr>
<td>July 2</td>
<td>CENSUS: last day to drop classes without record, Session 6W1</td>
</tr>
<tr>
<td>July 3-5</td>
<td>Independence Day Holiday, university and library closed</td>
</tr>
<tr>
<td>July 14</td>
<td>CENSUS: Last day to drop classes without record, Session Regular</td>
</tr>
<tr>
<td>July 27</td>
<td>Last day of MW classes, Session 6W1</td>
</tr>
<tr>
<td>July 28</td>
<td>Last day of MTWR and TR classes, Session 6W1</td>
</tr>
<tr>
<td>July 29, 30</td>
<td>Final examinations, Session 6W1</td>
</tr>
<tr>
<td>July 30</td>
<td>Last day for full refund, Session 6W2</td>
</tr>
<tr>
<td>Aug. 3</td>
<td>Classes begin, Session 6W2</td>
</tr>
<tr>
<td>Aug. 4</td>
<td>Grades due, Session 6W1</td>
</tr>
<tr>
<td>Aug. 4</td>
<td>Last day to add via MyCoyote, Session 6W2</td>
</tr>
<tr>
<td>Aug. 11</td>
<td>CENSUS: Last to drop classes without record, Session 6W2</td>
</tr>
<tr>
<td>Aug. 12</td>
<td>Classes begin, Session 6W2</td>
</tr>
<tr>
<td>Aug. 14</td>
<td>Grades due, Sessions Regular and 6W2; end of term</td>
</tr>
<tr>
<td>Sept. 1</td>
<td>Last day of classes, Session Regular</td>
</tr>
<tr>
<td>Sept. 2, 3</td>
<td>Final examinations, Session Regular</td>
</tr>
<tr>
<td>Sept. 3</td>
<td>Last day of classes, Session 6W2</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Labor Day, university and library closed</td>
</tr>
<tr>
<td>Sept. 8, 9</td>
<td>Final examinations, Session 6W2</td>
</tr>
<tr>
<td>Sept. 9</td>
<td>Admission Day, university open (observed Dec. 30)</td>
</tr>
<tr>
<td>Sept. 14</td>
<td>Grades due, Sessions Regular and 6W2</td>
</tr>
</tbody>
</table>

## Fall Term 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 21-June 12</td>
<td>Fall Quarter 2015 Priority Registration</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Labor Day, university and library closed</td>
</tr>
<tr>
<td>Sept. 9</td>
<td>Admission Day, university open (observed Dec. 30)</td>
</tr>
<tr>
<td>Sept. 16</td>
<td>Beginning of academic year</td>
</tr>
<tr>
<td>Sept. 23</td>
<td>Last day to withdraw from all classes and receive 100% refund</td>
</tr>
<tr>
<td>Sept. 24</td>
<td>Classes begin (Saturday classes begin Sept. 27)</td>
</tr>
<tr>
<td>Sept. 30</td>
<td>Last day to add classes via My Coyote Self-Service</td>
</tr>
<tr>
<td>Oct. 12</td>
<td>Columbus Day, university open (observed Dec. 31)</td>
</tr>
<tr>
<td>Oct. 14</td>
<td>CENSUS: Last day to drop classes without record</td>
</tr>
<tr>
<td>Nov. 2</td>
<td>Last day to file or refile graduation check for Spring 2016 graduation without payment of late fee</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Nov. 2-24</td>
<td>Winter Quarter 2016 Priority Registration</td>
</tr>
<tr>
<td>Nov. 11</td>
<td>Veteran's Day, university and library closed</td>
</tr>
<tr>
<td>Nov. 26-29</td>
<td>Thanksgiving recess, university and library closed</td>
</tr>
<tr>
<td>Dec. 7</td>
<td>Last day of classes (Saturday classes end Dec. 5)</td>
</tr>
<tr>
<td>Dec. 8-12</td>
<td>Final examinations</td>
</tr>
<tr>
<td>Dec. 12</td>
<td>Fall Commencement</td>
</tr>
<tr>
<td>Dec. 15</td>
<td>Grades due; end of term</td>
</tr>
<tr>
<td>Dec. 24-Jan. 3</td>
<td>Academic recess, campus closed, University and library close at noon on Dec. 24</td>
</tr>
</tbody>
</table>

For a more detailed calendar of academic dates and deadlines, see the quarterly (http://academicscheduling.csusb.edu) Class Schedule. The above calendar is not intended to be construed as an employee work calendar.
Admission

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 CSU Mentor (http://www.csumentor.edu).

Electronic versions of the CSU undergraduate and graduate applications are accessible on the web at CSU Mentor (http://www.csumentor.edu). Students can use CSU Mentor 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 CSU Mentor (http://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 CSU Mentor (http://www.csumentor.edu) as a portable data format (PDF). Application forms (in PDF) may also be downloaded from Cal State Publications (http://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 another open term. Current admission requirements and applicable deadlines must be met.

CSU Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of 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 Disease Information: 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.

Undergraduate Application

CSU Mentor (http://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. Visit CSU Mentor (http://www.csumentor.edu.) to determine if a campus is open or still accepting applications for the term.

<table>
<thead>
<tr>
<th>Terms</th>
<th>Applications first accepted</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter quarter 2016</td>
<td>June 1, 1015</td>
<td>June 1-30, 2015</td>
</tr>
</tbody>
</table>

Students interested in attending only the summer quarter at CSUSB should visit Admissions & Student Recruitment (http://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 CSU Mentor Filing Status (http://www.csumentor.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 impaction will be available at the following websites:

- CSU Mentor (https://secure.csumentor.edu)
- CSU (http://www.calstate.edu/impactioninfo.shtml) Impacted Majors (http://www.calstate.edu/impactioninfo.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 The California State University (http://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.

Supplementary Admission Criteria

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 CSU Impacted Majors and Campuses (http://www.calstate.edu/sas/impactioninfo.shtml).

Applicants to system wide 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 apply for admission during the initial admission 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 following high school graduation. CSU eligible first-time freshman applicants graduating from high schools in CSUSB's defined local area will be admitted based on CSU system wide eligibility criteria. CSU eligible first-time freshman applicants graduating 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 apply during the initial filing period (October 1 through November 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 Acknowledgement

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 applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates applicants have met 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 meet the following requirements:

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
Admission 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. Those 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 below 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 2015-2016 college years.

Those 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.

Eligibility Index Table for Graduates from California High Schools and California Residents applying from those schools in CSUSB’s defined Local Area and applying to

<table>
<thead>
<tr>
<th>GPA</th>
<th>ACT Score</th>
<th>SAT Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 and above qualifies with any score</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.99</td>
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<tr>
<td>2.39</td>
<td>22</td>
<td>990</td>
</tr>
</tbody>
</table>
Conditional/Provisional Admission for First-Time Freshman

CSUSB may offer students early, provisional admission based on the self-reported information from the application for admission. This consists of 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 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 and have a qualifying eligibility index. 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) 771-7588 College Board (http://sat.collegeboard.org/home?
navid=gh-sat)
or
ACT Registration Unit
P.O. Box 414
Iowa City, Iowa 52240
(319) 337-1270 ACT (http://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 are accepted for transfer
campuses of the CSU; however, authority for decisions regarding the
transfer of undergraduate credits is delegated to each CSU campus.

California Community Colleges and other authorized certifying
institutions can certify up to 39 semester (58.5 quarter) units of General
Education-Breadth (GE-Breadth) or 37 semester (55.5 quarter) units
of Intersegmental General Education Transfer Curriculum (IGETC) for
transfer students to fulfill lower-division general education requirements
for any CSU campus prior to transfer.

"Certification" is the official notification from a California Community
College or authorized institution that a transfer student has completed
courses fulfilling lower-division general education requirements. The CSU
GE-Breadth and Intersegmental General Education Transfer Curriculum
(IGETC) certification course lists for particular community colleges can be
accessed on ASSIST  (http://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 ASSIST  (http://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 and are not eligible for admission to CSUSB. 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. Due to increased enrollment demands, many CSU campuses
do not admit lower-division transfer applicants. As an impacted campus,
CSUSB does not admit lower-division transfer applicants.

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.

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. As an impacted campus, CSUSB does 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
3. They have completed at least 60 transferable semester (90 quarter) units 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.
   a. 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 on time, to a local CSU campus, or non-impacted 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 (90 quarter) units.

**Conditional/Provisional Admission for Transfers**

CSUSB may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion prior to beginning courses at CSUSB. The campus will monitor the final terms to ensure that conditionally admitted students complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college work completed by the campus deadline. Campuses 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. In no case may such documents be received and validated by the university any later than a student’s registration for their second term of CSU enrollment.

Applicants will qualify for regular (non-provisional/conditional) admission when the university verifies they have earned 60 semester (90 quarter) transferable units, including completing the four basic skills courses with grades of C or better, and, if applying to an impacted program or campus, have met all supplementary criteria.

**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 equivalence 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 international students. For this purpose, "international 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 "international 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 another 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 international students, being admitted either to impacted majors 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 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. or TOEFL (http://www.toeflgoanywhere.org).

International applicants must also submit a statement of financial responsibility to the Center for International Studies & Programs (CISP) (http://admissions.csusb.edu/international) to be considered for admission to the university. International students are also required to submit evidence of adequate medical/hospital insurance to the international student advisor in CISP.

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 at California State University, San Bernardino (http://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, international students should make an appointment with CISP as early as possible.

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 (USIA) and NAFSA: Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information can be obtained from the Center for International Studies & Programs.

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 in a country 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:

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<thead>
<tr>
<th></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>

Other Applicants

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

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.

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 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 census for a given term through the regular campus enrollment. An application and application fee are required if:

1. the student was not matriculated in any of the three terms (not including summer) prior to the term in which they plan to register,
2. the student was enrolled at another four-year institution during an absence from California State University, San Bernardino, and
3. the student has since earned a baccalaureate degree.

Enrollment through Open University, 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 (http://rre.csusb.edu).

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 (p. 101).)

Returning students who must reapply must apply during the priority application filing period and 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 returning student who has applied to CSUSB for a coming term 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>
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<tr>
<td>Winter</td>
<td>December 1</td>
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<tr>
<td>Spring</td>
<td>March 1</td>
</tr>
<tr>
<td>Summer</td>
<td>June 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 from 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 which requirements remain unfilled. 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 (http://rre.csusb.edu/misc/documents/ConcurrentEnrollmentOct10.pdf). For complete policy, see Concurrent Enrollment (p. 101).

Students attending CSUSB on I-20 visas are not eligible for concurrent enrollment. 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.

**General Information - Admission and Evaluation of Academic Records**

**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.

- American Government
- American Literature
- Analyzing and Interpreting Literature
- Biology
- Calculus
- Chemistry
- College Algebra
- College Algebra - Trigonometry
- English Literature
- French, Levels I and II
- German, Levels I and II
- History, United States I and II
- Human Growth and Development
- Humanities
- Introductory Psychology
- Introductory Sociology
- Natural Sciences
- Pre-Calculus
- Principles of Macroeconomics
- Principles of Microeconomics
- Spanish, Levels I and II
- Trigonometry
- Western Civilization I and II

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 (http://rre.csusb.edu).

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

**Credit by Advanced Placement**

CSUSB grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. 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 (http://rre.csusb.edu).
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 (http://rre.csusb.edu).

Credit for On-line/Distance Learning, and Extension Courses

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

Matriculated students wanting to take on-line 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 allowed 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.

Students may also challenge courses by taking examinations developed at CSUSB. Credit shall be awarded to those who pass them successfully.

See Credit by Examination under Academic Regulations for more information.

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 Freshman Admissions & Student Recruitment (http://admissions.csusb.edu/freshmen).

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 and deadlines 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.

Contact Yordanos Seleba, Records, Registration and Evaluations Office, (909) 537-3211, yseleba@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 (http://rre.csusb.edu).

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 to 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) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB.

UCR/CSUSB Cross Registration Program

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

1. A limited number of students may participate.
2. A limit of one course per student per quarter.
3. The student is matriculated and currently enrolled in a degree program.
4. Students attending CSUSB on I-20 visas may participate, 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.
5. Student must pay sufficient (full) tuition fees at the Home Campus. No additional registration fees will be required at the Host Campus.
6. The desired course is not offered at the Home Campus.
7. Student must be in good academic standing.
8. Student must observe all academic deadlines and regulations of the Host Campus.
9. Enrollment is subject to space availability and consent of the instructor.
10. Student must meet course prerequisites of the Host Campus.
11. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the “transfer” work on the student’s transcript, with a footnote indicating that the course was taken through the exchange program.
12. Residence credit will be granted for courses taken by CSUSB students under this arrangement.
13. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Determination of Residence

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 (http://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 of 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 resources.
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>Term</th>
<th>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>Term</th>
<th>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 non-residents 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.

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.

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 and/or specific program 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.

The basis of appeal may include the following:

1. Credit not considered during the initial review of the application
2. Miscalculation of transferable college credit
3. Applied to an impacted major and wish to be reconsidered to another major
4. Special/extenuating circumstances

Applicants are limited to one appeal per quarter. Appeals by mail may be addressed to:

CSUSB
Director of Admissions
5500 University Pkwy.
San Bernardino, CA 92407.
or Appeals by fax may be sent to: (909) 537-7034, Attention: Director of Admissions, or Appeals by email may be sent to: areed@csusb.edu.

**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.

**General Requirements for Admission**

The minimum requirements for admission to postbaccalaureate studies at CSUSB are listed below.

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 3.0 on the last degree completed by the candidate or have attained a grade point average of at least 3.0 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
4. satisfactorily meet the professional, personal, scholastic, and other standards, including qualifying examinations, as appropriate campus authorities may prescribe. The campus may make exceptions to these criteria.

Please note that the grade point average requirements at CSUSB are generally higher than the CSU minimum requirements. Applications are reviewed by the Office of Graduate Studies and the program or department to which the student has applied.

Applicants who do not qualify for admission under the provisions cited above may be admitted by special action if, on the basis of acceptable evidence, they are judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the graduate coordinator of the appropriate master’s program or if there is no specific graduate degree in mind, to the Dean of Graduate Studies. 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 focus on personal or professional growth, depending on their objective.

Students who meet the minimum requirements for postbaccalaureate studies may be considered for admission in one of the four following categories:

- **Postbaccalaureate Classified**, e.g. admission to an education credential program. Students 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 examination is completed. See Culminating Experience: Exam, Thesis or Project, for further explanation.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website Cal State University website (http://www.calstate.edu) and the CSU admissions portal CSU Mentor website (http://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).

**Admissions Procedures**

1. All graduate and postbaccalaureate applicants (e.g., Ed.D. applicants, master’s degree applicants, those seeking educational credentials or certificates,) must file a complete graduate application as described in the graduate and postbaccalaureate admission materials at CSU Mentor website (http://www.csumentor.edu). Nursing applicants seeking a second bachelor’s degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Nursing 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. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to
Admission

Applications must be submitted on the CSU Mentor website (http://www.csumentor.edu) unless submission of an electronic application is impossible. Those who are unable to submit an electronic application may obtain a paper application 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.

Paper applications, official transcripts, and other application materials should be directed to the Office of Graduate Studies, CH-123. Applications are accessible at CSU Mentor website (http://www.csumentor.edu).

The university begins accepting applications from new and readmitted students on October 1 for the following fall quarter, June 1 for the following winter quarter, August 1 for the following spring quarter and February 1 for the following summer quarter. Applicants for postbaccalaureate programs are limited to the choice of a single campus on each application. If postbaccalaureate applicants wish to be considered by more than one campus, they must submit separate applications and fees to each. Please contact the program for program-specific requirements; some require additional application materials and may have different deadlines.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition for readmission to the university on probation. Contact the Dean of Graduate Studies for format.

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 under Academic Regulations. A student admitted on probationary status may be restricted by the graduate coordinator to a limited program.
Undergraduate Degrees and Programs

Office of the Associate Vice President of Undergraduate Studies

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

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 also offers a First-Year Seminar designed to introduce students to the University and to provide them with the academic and personal skills necessary to succeed in a university setting. Other programs are targeted for specific students and may have eligibility requirements. All the programs offered by Undergraduate Studies rest on a solid foundation of assessment and data analysis performed by the Office of Research and Policy Analysis. All of the programs are there to give students the best possible experience and to help students successfully achieve their educational goals.

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

The baccalaureate degree students earn at California State University, San Bernardino will represent work done in three broad areas: General Education, courses in a major, and free electives. On Page 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.

Undergraduate Degrees and Programs under Development

<table>
<thead>
<tr>
<th>Degree</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S. in Information Systems and Technology</td>
<td>College of Business and Public Administration</td>
</tr>
</tbody>
</table>

Four-year Pledge

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
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 and pass a minimum of 15-16 units per quarter (for majors requiring more than 180 units, additional units will be needed in order to finish in four years). 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 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.

Educational Opportunity Program

University Hall, Room 395
(909) 537-5042 Educational Opportunity Program website (http://www.ugs.csusb.edu/eop)

The Educational Opportunity Program (EOP) is an admissions and support services program designed to assist historically low-income, first generation, disadvantaged 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.
Mentors make a difference. The Faculty/Student Mentor Program (FSMP) pairs experienced CSUSB students with incoming freshmen or transfer students. Student mentors are an invaluable resource for helping new students make the transition to CSUSB. Student mentors help guide new students through their 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 are supported by Undergraduate Studies. The FSMP also offers at least one educational fieldtrip designed to enhance the CSUSB educational experience each quarter.

The First-Year Seminar

University Hall, Room 352
(909) 537-5032

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.

Learning Center

University Hall, Room 351
(909) 537-5038 Undergraduate Learning Center website (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, testing during limited hours and with the approval of the professor is administered for students needing make-up exams, students enrolled in self-paced courses, and for those taking challenge exams. For a charge, the Learning Center will also proctor exams for other institutions.

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

SAIL Program

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

The Student Assistance in Learning (SAIL) program is the university’s TRIO Student Support Services (http://www2.ed.gov/programs/triostudsupp) project, which is 100% funded by a grant from the U.S. Department of Education. The goal of SAIL is to increase the retention and graduation rates of undergraduate students who are low-income, whose parents have not earned a bachelor’s degree or who have a disability. SAIL offers a variety of support services to ensure students’ success in college. These include:

- Educational planning
- Financial aid counseling
- Personal finance planning
- Career counseling
- Assistance with graduate school planning and preparation
- 2-unit adjunct support classes to enhance success in selected high-risk general education courses
- 2-unit Advanced Notetaking and Organization courses with specific subject area emphases (expository writing, history, mathematics, statistics and general study skills)
- 2-unit College Reading courses
- Workshops addressing student success strategies, student resources and personal growth
- Study Marathons to help students prepare for final exams
- Community service and leadership development opportunities

The primary enrollment period for the SAIL program is September 1 through September 30 of each academic year or until the program reaches a total of 400 new and returning students.

Testing

University Hall, Room 368
(909) 537-5045 Undergraduate Testing website (http://www.ugs.csusb.edu/testing)

The Testing Office administers tests applicable to admission, academic placement, and academic achievement. In addition, we also provide proctoring services to students attending distance or on-line schools and professional certification examinations via the CASTLE network. The Testing Office provides for the following standardized examinations:

- American College Testing (ACT - Institutional)
- CLA (Collegiate Learning Assessment)
- English Placement Test (EPT)
- Entry Level Mathematics (ELM)
- iSkills (ICT Literacy Test)
- LSAT (Law School Admissions Test)
- MPRE (Multi-State Profession Responsibility Exam)
- TEAS (Test of Essential Academic Skills) for CSU nursing school applicants
- U.S. Constitution, U.S. History and California State and Local Government Exams
- (WREE) Writing Requirement Exemption Exam

Writing Center

University Hall, Room 387
(909) 537-5232 Undergraduate Writing Center website (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.

Undergraduate Degree and
Program Requirements

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 4
   MATH 110 College Algebra 4
   MATH 115 The Ideas of Mathematics 4
   MATH 120 Pre-Calculus Mathematics 4
   MATH 165 Introductory Statistics and Hypothesis Testing
   (GE credit for Nursing majors only) 4
   MATH 192 Methods of Calculus 4
   MATH 211 Basic Concepts of Calculus 4

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, below.)
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 150A-K
   and below) may be applied toward graduation.
9. Complete the upper-division writing requirement. (See Upper-
    Division Writing Requirement (p. 47).)
10. Complete the history, constitution and California government
    requirement. (See History, Constitution, Government Requirement
    (p. 47).)
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 Graduation Requirement
    Check (p. 101).)

Early Start Program (ESP)

In order to improve retention and graduation, the CSU Chancellor’s
Office has mandated that all new freshmen students who have not
demonstrated college-readiness in mathematics and English will need to
begin work on becoming 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 147. 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 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 Early Start Program website (http://www-ugs.caus.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 entry-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 English 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 CSU Placement Test website (http://www.ets.org/csu).
Questions about test dates and registration materials may be addressed
to the Testing Office, University Hall, Room 368, (909) 537-5045.

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 Academic Services to develop a reinstatement plan.

English Placement Test (EPT). The English Placement Test (EPT)
is 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 developmental 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 Composition and Literature examination of the College Board
  Scholastic Advanced Placement Program
Exemptions from the ELM are granted only to those who present proof of
classes. 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 (EAP) 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
Department's Directed Self-Placement (DSP) self-assessment in order
to select the first-year English composition course appropriate for them.
Students will consider their EPT score in their DSP decision.

### Entry Level Mathematics (ELM) Exam

The Entry Level Mathematics (ELM) Examination is designed to assess and measure the level of mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (Algebra I and II, and Geometry) of students entering the California State University (CSU). The CSU ELM must be completed by all non-exempt entering undergraduates prior to enrollment 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
  Mathematics (level 1 or level 2)
- A score of 23 or above on the American College Testing (ACT)
  Mathematics Test
- A score of 3 or above on the College Board Advanced Placement
  Calculus AB or Calculus BC exam
- A score of 3 or above on the College Board Advanced Placement
  Statistics examination
- 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 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 required
in preparation for the general education math course.

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

- ELM score of (550 or greater) 50 or greater students may enroll in
  MATH 110, MATH 115, MATH 120, MATH 192, MATH 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:
    a. Enroll in MATH 80 PLUS MATH 79 math lab adjunct;
    b. 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, MATH 75B, MATH 75C, MATH 80, MATH 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 school 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 CSU Placement Test website
(http://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) 537-5034) 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 Fees (p. 87) 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.

University Honors

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 104A</td>
<td>Language and Meaning: Critical Thinking</td>
<td>4</td>
</tr>
<tr>
<td>HON 104B</td>
<td>Language and Meaning: Introduction to Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>HON 104C</td>
<td>Language and Meaning: Oral Communication</td>
<td>4</td>
</tr>
<tr>
<td>HON 105A</td>
<td>Honors Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>HON 105B</td>
<td>Honors Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>HON 105C</td>
<td>Honors Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>HON 205A</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205B</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205C</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

A senior project in a department

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 205A</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205B</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205C</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

A senior project in a department

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 (11)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 205A</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205B</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
<tr>
<td>HON 205C</td>
<td>Honors Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Eight additional upper-division units chosen from honors-designated courses.
General Education Program

Requirements (78-82 units)

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

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

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

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

1. Written Communication

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 104A</td>
<td>4</td>
</tr>
<tr>
<td>ENG 104B</td>
<td></td>
</tr>
<tr>
<td>ENG 106A</td>
<td></td>
</tr>
<tr>
<td>ENG 106B</td>
<td></td>
</tr>
<tr>
<td>ENG 107</td>
<td></td>
</tr>
</tbody>
</table>

2. Oral Communication

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 120</td>
<td>4</td>
</tr>
<tr>
<td>HON 104C</td>
<td>Language and Meaning: Oral Communication</td>
</tr>
</tbody>
</table>

3. Mathematics

One course listed in the mathematics section of the natural sciences breadth area (category B1)

Four units chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
</tr>
<tr>
<td>MATH 165</td>
<td>Introductory Statistics and Hypothesis Testing (GE credit for Nursing majors only)</td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
</tbody>
</table>

B. Natural Sciences Breadth Area (20)

1. Mathematics

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
<tr>
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</tr>
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<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
</tbody>
</table>

2. Life Sciences

Five units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
</tr>
<tr>
<td>HSCI 120</td>
<td>Health and Society: An Ecological Approach</td>
</tr>
</tbody>
</table>

3. Physical Sciences

A minimum of five units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 103</td>
<td>Descriptive Astronomy</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemistry in the Modern World</td>
</tr>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Physics in the Modern World</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
</tr>
</tbody>
</table>

4. Special Topics in Science and Technology

Two units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 216</td>
<td>Genetics and Society</td>
</tr>
<tr>
<td>BIOL 217</td>
<td>Biology of Sexually Transmitted Diseases</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemicals in Our Environment</td>
</tr>
</tbody>
</table>

Total Units 78-82
### Undergraduate Degrees and Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 122</td>
<td>Bioinformatics</td>
</tr>
<tr>
<td>CSE 129</td>
<td>Science, Computing and Society</td>
</tr>
<tr>
<td>CSE 208</td>
<td>Introduction to Computer Engineering Design</td>
</tr>
<tr>
<td>GEOL 205</td>
<td>Volcanic Hazards, Surveillance and Prediction</td>
</tr>
<tr>
<td>GEOL 210</td>
<td>Earthquakes: Science and Public Policy</td>
</tr>
</tbody>
</table>

#### 5. Integrative Capstone in the Natural Sciences

Four units chosen from:

- CSE 408 Sustainable Engineering Design
- NSCI 300 Science and Technology
- NSCI 310 The Environment and Human Survival
- NSCI 314 Life in the Cosmos
- NSCI 315 Natural Disasters
- NSCI 320 Energy
- NSCI 325 Perspectives on Gender (also counts in category G1)**
- NSCI 351 Health and Human Ecology
- NSCI 360 Legacy of Life

**Note:** Students may receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325

**Total Units:** 20

* MATH 110, MATH 115, and MATH 120 must be completed with a grade of "C" (2.0) or better

**Note:** Students may receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325

### C. Humanities Breadth Area (20)

#### 1. Arts

Four units chosen from:

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

#### 2. Literature

Four units chosen from:

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

#### 3. Foreign Language or Literature in Translation *

Four units chosen from:

- ARAB 103 College Arabic III
- ARAB 201 Intermediate Arabic I
- ARAB 202 Intermediate Arabic II
- ARAB 203 Intermediate Arabic III
- ARAB 214 Conversation in Arabic
- ARAB 290 Arabic Literature in Translation
- ASL 103 American Sign Language III
- ASL 201 American Sign Language IV
- ASL 202 American Sign Language V
- ASL 203 American Sign Language VI
- CHIN 103 College Chinese III
- CHIN 201 Second Year College Chinese I
- CHIN 202 Second Year College Chinese II
- CHIN 203 Second Year College Chinese III
- CHIN 214 Conversation in Chinese
- CHIN 290 Chinese Literature in Translation
- FLAN 103A-U Language Study III
- FLAN 201A-U Second Year Language Study I
- FLAN 202A-U Second Year Language Study II
- FLAN 203A-U Second Year Language Study III
- FREN 103 College French III
- FREN 200 Culture and Communication
- FREN 201 Culture and Communication II
- FREN 202 Culture and Communication III
- FREN 290 French Literature in English
- GER 103 College German III
- GER 212 Composition
- GER 214 Conversation
- GER 216 Introduction to Literary Texts
- GER 290 German Literature in English
- JAPN 103 College Japanese III
- JAPN 201 Second Year College Japanese I
- JAPN 202 Second Year College Japanese II
- JAPN 203 Second Year College Japanese III
- JAPN 214 Conversation in Japanese
- JAPN 290 Japanese Literature in Translation
- KOR 103 College Korean III
- KOR 201 Second Year College Korean I
- KOR 202 Second Year College Korean II
- KOR 203 Second Year College Korean III
- KOR 214 Conversation in Korean
- PERS 103 College Persian III
- PERS 201 Intermediate Persian I
- PERS 202 Intermediate Persian II
- PERS 290 Persian Literature in Translation
- SPAN 103 College Spanish III
- SPAN 201 Intermediate Spanish I
- SPAN 202 Intermediate Spanish II
- SPAN 203 Intermediate Spanish III
- SPAN 214 Conversation
- SPAN 290 Spanish and Latin American Literature in English

#### 4. Philosophy

Four units chosen from:

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

#### 5. Integrative Capstone in the Humanities

Four units chosen from:

- HUM 319 Myth, Metaphor and Symbol
### D. Social and Behavioral Sciences Breadth Area (20)

1. **American History and Civilization**
   - **Four units chosen from:**
     - HIST 146 American Civilization
     - HIST 200 United States History to 1877
     - HIST 201 United States History, 1877 to the Present

2. **American Institutions**
   - **Four units chosen from:**
     - PSCI 203 American Government

3. **World Cultures**
   - **Four units chosen from:**
     - ANTH 140 World Civilizations I, the Rise of Civilization
     - HIST 140 World Civilizations I, the Rise of Civilization
     - HIST 142 World Civilizations II, the Civilizations of the East and West
     - HIST 144 World Civilizations III, the Expansion of Europe

4. **World History**
   - **Four units chosen from:**
     - HIST 145 The World of Islam
     - HIST 146 World History to 1492
     - HIST 200 United States History to 1877
     - HIST 201 United States History, 1877 to the Present

5. **World Civilizations**
   - **Four units chosen from:**
     - HIST 200 United States History to 1877
     - HIST 201 United States History, 1877 to the Present
     - HIST 202 United States History, 1877 to the Present
     - HIST 203 American Government

6. **World Cultures**
   - **Four units chosen from:**
     - ANTH 140 World Civilizations I, the Rise of Civilization
     - HIST 140 World Civilizations I, the Rise of Civilization
     - HIST 142 World Civilizations II, the Civilizations of the East and West
     - HIST 144 World Civilizations III, the Expansion of Europe

7. **Physical Education**
   - **Two units chosen from:**
     - KINE 205 Foundations for Lifetime Fitness and Wellness
     - KINE 206 Foundations for Lifetime Fitness and Wellness

8. **Lifelong Understanding Category (6)**
   - **Two units chosen from:**
     - KINE 101 Individual and Dual Activities
     - KINE 114A Physical Fitness and Conditioning Activities
     - KINE 120A Somatic and Martial Arts Activities
     - KINE 121A-K Team Activities
     - KINE 137A-L Aquatic Activities
     - KINE 147 A Fitness Odyssey

Total Units: 20

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**Note:**
- The following rules apply to challenging a course for credit toward this category:
  1. Only courses at the 103-level or higher may be challenged;
  2. 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;
  3. 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;
  4. Students who satisfy the Foreign Language/Literature in Translation requirement through 2 or 3 above will not receive academic credit.

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**Open only to students accepted into the University Honors Program.**

**Note:** Students may receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325

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**E. Lifelong Understanding Category (6)**

1. **The Whole Person - Physical and Physiological Issues**
   - **Two units chosen from:**
     - KINE 205 Foundations for Lifetime Fitness and Wellness
     - KINE 206 Foundations for Lifetime Fitness and Wellness

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

3. **Physical Education**
   - **Two units chosen from:**
     - KINE 101A-S Individual and Dual Activities
     - KINE 114A-F Physical Fitness and Conditioning Activities
     - KINE 120A-L Somatic and Martial Arts Activities
     - KINE 121A-K Team Activities
     - KINE 137A-L Aquatic Activities
     - KINE 147 A Fitness Odyssey
KINE 149 Independent Activity Project
KINE 150A-K Dance Activities

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.

Total Units 6

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

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
   - EDUC 306 Expository Writing for Education
   - ENG 306 Expository Writing for English
   - HON 306 Expository Writing for Honors
   - HUM 306 Expository Writing for the Humanities
   - MGMT 306 Expository Writing for Administration
   - NSCI 306 Expository Writing for the Natural Sciences
   - SSCI 306 Expository Writing for the Social Sciences

2. Passing the Writing Requirement Exemption Exam (WREE).

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.

Total Units 0-4

* Open only to students accepted into the University Honors Program.

G. Multicultural/Gender Requirement Category (0-4)

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
   - HUM 328 Asian Cultural Traditions
   - HUM 335 The Origin and Contemporary Role of Latino Culture
   - HUM 350 The Culture of American Childhood
   - HUM 370 African Heritage in the Arts
   - HUM 375 The World of Islam
   - HUM 380 Comparative Studies in the Arts: East and West
   - NSCI 325 Perspectives on Gender
   - SSCI 316 Race and Racism
   - SSCI 325 Perspectives on Gender
   - SSCI 350 Roots of Modern Racism in America

2. One upper-division course from the following:
   - ANTH 325 Human Biological Variance and the Concept of Race
   - ANTH 333 Sex and Gender in Cross-Cultural Perspective
   - CJUS 451 Women and Crime
   - COMM 304 Intercultural Communication
   - COMM 401 Gender, Race and Media
   - ECON 352 Political Economy of Poverty and Discrimination
   - ENG 314 American Indian Literature

   HUM 460 Cultural Studies
   MUS 308 Women in Music
   MUS 309 Jazz History in America and African-American Culture
   MUS 350 Music of World Cultures
   PA 305 Organizations in Multicultural and Diverse Societies
   PHIL 364 Philosophy of Race and Ethnicity
   PHIL 367 Gender and Philosophy
   TA 462 African-American Theatre and Drama
   TA 463 Asian Theatre

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 Expository Writing for Education
   - ENG 306 Expository Writing for English
   - HON 306 Expository Writing for Honors (for students in the Honors Program)
   - HUM 306 Expository Writing for the Humanities
   - MGMT 306 Expository Writing for Administration
   - NSCI 306 Expository Writing for the Natural Sciences
   - SSCI 306 Expository Writing for the Social Sciences

2. Passing the Writing Requirement Exemption Exam (WREE).

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.

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 485.)

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 American Civilization
HIST 200 United States History to 1877
HIST 201 United States History, 1877 to the Present 4
HIST 540 Constitutional History of the United States 4
PSCI 203 American Government 4
PSCI 410 American Constitutional Law 4
PSCI 411 The Bill of Rights 4

The requirement in U.S. history may be met by completing one of the following:

HIST 146 American Civilization 4
HIST 200 United States History to 1877 4
HIST 201 United States History, 1877 to the Present 4
HIST 540 Constitutional History of the United States 4
PSCI 314 American Political Thought 4

The requirement in state and local government as established in California may be met by completing one of the following:

HIST 270 California History 4
HIST 370 History of California 4
PSCI 203 American Government 4
PSCI 330 State and Local Politics 4
PSCI 332 California Government 2

Note: General Education credit is only granted for the following:
HIST 146, HIST 200, HIST 201 and PSCI 203.

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 HIST 200 or HIST 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.

Undergraduate Degrees

College of Arts and Letters

• Bachelor of Arts in American Studies (p. 172)

Department of Art

• Bachelor of Arts in Art - Plan I (Visual Studies) (p. 186)
• Bachelor of Arts in Art - Plan II (Studio Art) (p. 188)
• Bachelor of Arts in Art - Plan III (Art History) (p. 189)
• Bachelor of Arts in Art - Plan IV (Graphic Design) (p. 190)
• Bachelor of Arts in Art - Plan V (Graphic Design and Marketing) (p. 191)

Department of Communication Studies

• Bachelor of Arts in Communication (p. 209)

Department of English

• Bachelor of Arts in English (p. 232)

Department of Music

• Bachelor of Arts in Music (p. 255)

Department of Philosophy

• Bachelor of Arts in Philosophy (p. 263)

Department of Theatre Arts

• Bachelor of Arts in Theatre Arts (p. 277)

Department of World Languages and Literatures

• Bachelor of Arts in Arabic Language, Literature, and Culture (p. 317)
• Bachelor of Arts in French (p. 321)
• Bachelor of Arts in Spanish (p. 323)

Liberal Studies Office

• Bachelor of Arts in Liberal Studies - Arts and Letters Track (Non-credential) (p. 335)
• Bachelor of Arts in Liberal Studies - General Track (Pre-Credential) (p. 336)
• Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential) (p. 340)
• Bachelor of Arts in Liberal Studies - Spanish Studies Track (p. 343)

College of Business and Public Administration

• B.A. in Administration Accounting Concentration (p. 353)
• B.A. in Administration Entrepreneurial Management Concentration (p. 353)
• B.A. in Administration Finance Concentration (p. 354)
• B.A. in Administration Financial Planning Concentration (p. 355)
• B.A. in Administration Human Resource Management Concentration (p. 355)
• B.A. in Administration Information Systems and Technology Concentration (p. 356)
• B.A. in Administration International Business Concentration (p. 357)
• B.A. in Administration Management Concentration (p. 359)
• B.A. in Administration Marketing Concentration (p. 359)
• B.A. in Administration Public Administration Concentration (p. 360)
• B.A. in Administration Real Estate Concentration (p. 361)
• B.A. in Administration Sports and Entertainment Marketing (p. 362)
• B.A. in Administration Supply Chain and Transportation Management Concentration (p. 362)
• B.S. in Administration Cyber Security Concentration (p. 363)
• B.S. in Administration Finance Concentration - DISCONTINUED Fall 2014
• B.S. in Administration Information Systems and Technology Concentration (p. 365)

College of Education

Department of Science, Mathematics and Technology Education

• Bachelor of Arts in Career and Technical Studies (p. 556)
• Bachelor of Science in Career and Technical Studies (p. 557)
College of Natural Sciences

Department of Biology
- Bachelor of Arts in Biology (p. 582)
- Bachelor of Arts in Biology - Integrated Teaching Track (p. 582)
- Bachelor of Arts in Biology - Pre-Med Option (p. 583)
- Bachelor of Science in Bioinformatics (p. 584)
- Bachelor of Science in Biology (p. 585)
- Bachelor of Science in Biology - Ecology and Evolution Option (p. 585)
- Bachelor of Science in Biology - Pre-Med Option (p. 586)
- Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation (p. 587)

Department of Chemistry and Biochemistry
- Bachelor of Arts in Chemistry - Biochemistry Option (p. 599)
- Bachelor of Arts in Chemistry - Chemistry Option (p. 600)
- Bachelor of Arts in Chemistry - Integrated Teaching Track (p. 600)
- Bachelor of Science in Bioinformatics (p. 584)
- Bachelor of Science in Chemistry - ACS Certified Option (p. 602)
- Bachelor of Science in Chemistry - Biochemistry Option (p. 602)

Department of Geological Sciences
- Bachelor of Arts in Geology (p. 614)
- Bachelor of Arts in Geology - Integrated Teaching Track (p. 614)
- Bachelor of Science in Geology (p. 615)

Department of Health Science and Human Ecology
- Bachelor of Science in Health Science (p. 631)
- Bachelor of Science in Health Science - Integrated Teaching Track (p. 633)
- Bachelor of Science in Nutrition and Food Sciences (p. 634)

Department of Kinesiology
- Bachelor of Science in Kinesiology - Exercise Science (p. 647)
- Bachelor of Science in Kinesiology - Pedagogy (p. 647)
- Bachelor of Science in Kinesiology - Allied Health Professions (p. 648)

Department of Mathematics
- Bachelor of Arts in Mathematics (p. 661)
- Bachelor of Arts in Mathematics - Integrated Teaching Track (p. 661)
- Bachelor of Arts in Mathematics - Teaching Track (p. 662)
- Bachelor of Science in Mathematics (p. 663)

Department of Nursing
- Bachelor of Science in Nursing (p. 678)
- Bachelor of Science in Nursing - RN to BSN Bridge Program (p. 679)

Department of Physics
- Bachelor of Arts in Physics (p. 687)
- Bachelor of Science in Physics (p. 687)

School of Computer Science and Engineering
- Bachelor of Arts in Computer Systems (p. 699)
- Bachelor of Science in Bioinformatics (p. 584)
- Bachelor of Science in Computer Engineering (p. 700)
- Bachelor of Science in Computer Science (p. 700)

College of Social and Behavioral Sciences
- Bachelor of Arts in Social Sciences - Credential Track (p. 711)
- Bachelor of Arts in Social Sciences - Multidisciplinary Track (p. 713)

Department of Anthropology
- Bachelor of Arts in Anthropology (p. 726)

Department of Criminal Justice
- Bachelor of Arts in Criminal Justice - Crime Analysis (p. 738)
- Bachelor of Arts in Criminal Justice - Paralegal Studies Option (p. 739)
- Bachelor of Arts in Criminal Justice (p. 737)

Department of Economics
- Bachelor of Arts in Economics (p. 746)
- Bachelor of Arts in Economics - Applied Economics (p. 747)
- Bachelor of Arts in Economics - Mathematical Economics (p. 747)
- Bachelor of Arts in Economics - Political Economy (p. 748)

Department of Geography and Environmental Studies
- Bachelor of Arts in Environmental Studies (p. 756)
- Bachelor of Arts in Geography - Geography Option (p. 757)
- Bachelor of Arts in Geography - Global Studies Option (p. 757)

Department of History
- Bachelor of Arts in History (p. 766)

Department of Political Science
- Bachelor of Arts in Political Science (p. 776)

Department of Psychology
- Bachelor of Arts in Human Development - Child Development Track (p. 798)
- Bachelor of Arts in Human Development - Lifespan Track (p. 799)
- Bachelor of Arts in Human Development - School Age Track (p. 800)
- Bachelor of Arts in Psychology (p. 803)
- Bachelor of Arts in Psychology - Biological Psychology (p. 804)

Department of Social Work
- Bachelor of Arts in Social Work (p. 834)

Department of Sociology
- Bachelor of Arts in Sociology - Social Services Track (p. 816)
- Bachelor of Arts in Sociology (p. 815)
Interdisciplinary Studies

- Bachelor of Arts with Special Major (p. 841)

Minors

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 Minor (p. 412)
Department of Accounting and Finance, JB-459, (909) 537-5704.

Anthropology Minor (p. 729)
Department of Anthropology, SB-327J, (909) 537-5502.

Applied Physics Minor (p. 688)
Department of Physics, PS-119, (909) 537-5397.

Arabic Minor (p. 327)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Art History Minor (p. 194)
Department of Art, VA-105, (909) 537-5802.

Asian Studies Minor (p. 213)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Biology Minor (p. 590)
Department of Biology, BI-329, (909) 537-5305.

Business Administration Minor (p. 413)
College of Business and Public Administration, JB-278, (909) 537-5700.

Business Information Mapping Minor (p. 414)
Department of Information Decision Sciences, JB-460, (909) 537-5723.

Career and Technical Studies Minor (p. 566)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Chemistry Minor (p. 605)
Department of Chemistry and Biochemistry, CS-204, (909) 537-5318.

Chicano(a)/Latino(a) Studies, Ethnic Studies Minor (p. 827)
College of Social and Behavioral Sciences, SB-207, (909) 537-7500.

Communication Minor (p. 214)
Department of Communication Studies, UH-018, (909) 537-5815.

Computer Science Minor (p. 703)
School of Computer Science and Engineering, JB-307, (909) 537-5326.

Criminal Justice Minor (p. 741)
Department of Criminal Justice, SB-209, (909) 537-5506.

Economics Minor (p. 748)
Department of Economics, SB-327D, (909) 537-5511.

Education Minor (p. 540)
College of Education, CE-221, (909) 537-3600.

English Minor (p. 238)
Department of English, LH-334, (909) 537-5824.

Entrepreneurship Minor (p. 415)
Department of Management, JB-461, (909) 537-5731.

Environmental Studies Minor (p. 758)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

Ethnic Studies Minor (p. 825)
College of Social and Behavioral Sciences, SB-207, (909) 537-7500.

Film Studies Minor (p. 214)
Department of Communication Studies, UH-018, (909) 537-5815.

Finance Minor (p. 416)
Department of Accounting and Finance, JB-459, (909) 537-5704.

French Minor (p. 328)
Department of World Languages and Literatures, UH-314, (909) 537-5847.
Gender and Sexuality Studies Minor (p. 541)
Gender and Sexuality Studies Program, College of Education Building, Room 226, (909) 537-5838.

Geography Minor (p. 758)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

Geography - Global Studies Minor (p. 758)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

Geology Minor (p. 616)
Department of Geological Sciences, PS-219 (F), BI-113A (WS); (909) 537-5336.

German Minor (p. 328)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Graphic Design-Print Minor (p. 195)
Department of Art, VA-105, (909) 537-5802.

Graphic Design-Web Minor (p. 195)
Department of Art, VA-105, (909) 537-5802.

Health Science Minor (p. 636)
Department of Health Science and Human Ecology, PS-226, (909) 537-5339.

History Minor (p. 769)
Department of History, SB-327F, (909) 537-5524.

Human Resources Management Minor (p. 417)
Department of Management, JB-461, (909) 537-5731.

Information Systems and Technology Minor (p. 418)
Department of Information Decision Sciences, JB-460, (909) 537-5723.

Intercultural Communication Minor (p. 215)
Department of Communication Studies, UH-018, (909) 537-5815.

International Business Minor (p. 419)
Department of Management, JB-461, (909) 537-5731.

Islamic and Middle Eastern Studies Minor (p. 828)
Department of History, SB-327F, (909) 537-5524.

Japanese Minor (p. 328)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Jazz Studies Minor (p. 257)
Department of Music, PA-111, (909) 537-5859.

Kinesiology Minor (p. 649)
Department of Kinesiology, HP-120, (909) 537-5349.

Latin American Studies Minor (p. 174)
College of Arts and Letters, UH-201.44, (909) 537-5858.

Law and Philosophy Minor (p. 264)
Department of Philosophy, UH-339, (909) 537-5869.

Management Minor (p. 420)
Department of Management, JB-461, (909) 537-5731.

Marketing Minor (p. 421)
Department of Marketing, JB-458, (909) 537-5749.

Mathematics Minor (p. 668)
Department of Mathematics, JB-370, (909) 537-5361.

Music Minor (p. 257)
Department of Music, PA-111, (909) 537-5859.

Nutrition and Food Sciences Minor (p. 637)
Department of Health Science and Human Ecology, PS-226, (909) 537-5339.

Paralegal Studies Minor (p. 741)
Department of Criminal Justice, SB-209, (909) 537-5506.

Philosophical Logic Minor (p. 264)
Department of Philosophy, UH-339, (909) 537-5869.

Philosophy Minor (p. 265)
Department of Philosophy, UH-339, (909) 537-5869.

Philosophy, Policy, and Economics Minor (p. 265)
Department of Economics, SB-327D, (909) 537-5511.
Department of Philosophy, UH-339, (909) 537-5869.
Department of Political Science, SB-112, (909) 537-5535.
Certificates

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 Certificate (p. 365)
Department of Accounting and Finance, JB-459, (909) 537-5704.

Applied Cultural Anthropology Certificate (p. 726)
Department of Anthropology, SB-327J, (909) 537-5502.

Arabic Certificate (p. 329)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Archaeology Certificate (p. 727)
Department of Anthropology, SB-327J, (909) 537-5502.

Asian Studies Certificate (p. 216)
Department of World Languages and Literatures, UH-314, (909) 537-5847.
Bilingual/Cross-Cultural Studies: Spanish/English Certificate (p. 330)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Biotechnology Certificate (p. 590)
Department of Biology, BI-329, (909) 537-5305.

Business Skills for the Artist Certificate (p. 196)
Department of Art, VA-105, (909) 537-5802.

California Indian Languages and Cultures Certificate (p. 331)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Career and Technical Education Certificate (p. 566)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Coaching Certificate (p. 650)
Department of Kinesiology, HP-120, (909) 537-5349.

Communication Skills Certificate (p. 216)
Department of Communication Studies, UH-018, (909) 537-5815.

Computer Systems and Programming Certificate (p. 703)
School of Computer Science and Engineering, JB-307, (909) 537-5326.

Criminal Justice Certificate (p. 741)
Department of Criminal Justice, SB-209, (909) 537-5506.

Cyber Security Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

Education Certificate (p. 532)
College of Education, CE-221, (909) 537-3600.

Fitness Management Certificate (p. 650)
Department of Kinesiology, HP-120, (909) 537-5349.

French/English Translation Certificate (p. 331)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Gender and Sexuality Studies Certificate (p. 536)
University Hall, Room 201.46, (909) 537-5838.

Geographic Information Systems Certificate (p. 759)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

German/English Translators Certificate (p. 329)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Gerontology Certificate (p. 637)
Department of Sociology, SB-327, (909) 537-5541.

Health Care Management Certificate (p. 637)
Department of Health Science and Human Ecology, PS-226, (909) 537-5339.

Human Resources Certificate (p. 366)
Department of Management, JB-461, (909) 537-5731.

Information Systems Management Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

International Relations Certificate (p. 779)
Department of Political Science, SB-112, (909) 537-5535/5534.

Introductory Actuarial Science Certificate (p. 668)
Department of Mathematics, JB-370, (909) 537-5361.

Introductory Mathematics Certificate (p. 668)
Department of Mathematics, JB-370, (909) 537-5361.

Islamic and Middle Eastern Studies Certificate (p. 718)
Department of History, SB-327F, (909) 537-5524.

Japanese Language and Culture Certificate (p. 332)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Latin American Studies Certificate (p. 727)
Department of Anthropology, SB-327J, (909) 537-5502.

Museum Studies Certificate (p. 728)
Department of Anthropology, SB-327J, (909) 537-5502.
Native Nations/Indigenous People Certificate (p. 719)
College of Social and Behavioral Sciences, SB-207, (909) 537-7500

Paralegal Studies Certificate (p. 741)
Coordinator’s Office, SB-209C, (909) 537-5506.

Puppetry Certificate (p. 281)
Department of Theatre Arts, PA-111, (909) 537-5876.

Recreation Leadership Certificate (p. 651)
Department of Kinesiology, HP-120, (909) 537-5349.

Social Services Certificate (p. 817)
Department of Sociology, SB-327, (909) 537-5541.

Spanish for Public Services Certificate (p. 333)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Supply Chain Management Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

Theatre for Youth Certificate (p. 281)
Department of Theatre Arts, PA-111, (909) 537-5876.

Urban Planning Certificate (p. 759)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

Writing: Creative Writing Certificate (p. 240)
Department of English, UH-334, (909) 537-5824.

Writing: Professional Writing Certificate (p. 240)
Department of English, UH-334, (909) 537-5824.

The following certificates are restricted to postbaccalaureate/graduate students only

Conflict Management Certificate (p. 217)
Department of Communication Studies, UH-018, (909) 537-5815 or Department of Management, JB-461, 537-5731.

Crosscultural, Language and Academic Development (CLAD) Certificate (p. 530)
Teacher Education Office, CE-102, (909) 537-5650.

E-Learning Certificate (p. 531)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Education of the Gifted and Talented Certificate (p. 533)
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606.

Educational Technology Certificate (p. 534)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Environmental Education Certificate (p. 535)
Environmental Education Office, CE- , (909) 537-5640.

Holistic and Integrative Education Certificate (p. 537)
Department of Language, Literacy and Culture, CE-261, (909) 537-7405.

Intelligence Methodology Certificate (p. 779)

Reading/Language Arts Certificate (p. 538)
Department of Language, Literacy and Culture, CE-261, (909) 537-7405.

Rehabilitation Counseling Certificate (http://bulletin.csusb.edu/colleges-schools-departments/education/educational-psychology-counseling/rehabilitation-counseling-certificate)
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606.

School Business Management Certificate (p. 539)
Department of Educational Leadership and Curriculum, CE-374, (909) 537-7404.

Teaching English as a Second Language Certificate (p. 239)
Department of English, UH-334, (909) 537-5824.

Credentials

Basic Teaching Credential Programs
Accredited by the National Council for Accreditation of Teacher Education (NCATE)

- Multiple Subject (p. 498)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) (p. 500)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) (p. 502)
- Single Subject (p. 511)
- Single Subject (Intern Track) (p. 514)
- Designated Subjects (Career and Technical Education Teaching) (p. 490)
Programs

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

Preprofessional Programs: Medicine, Veterinary Medicine, Dentistry, Pharmacy

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

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

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

Since preprofessional programs in dentistry place heavy emphasis on biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect MATH 211 and BIOL 342. 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 (p. 683).

Preprofessional Program: Law

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law. Accordingly, the College of Social and Behavioral Sciences offers a pre-law minor consisting of such courses. For further information concerning the prelaw minor, refer to the listing under the Department of Political Science (p. 771).

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

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

For additional information, a student should see the bulletins or catalogs of various law schools or the official Prelaw Handbook, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.
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 about Air Force ROTC at CSUSB ([http://afrotc.csusb.edu](http://afrotc.csusb.edu)) contact the Aerospace Studies Department, FO-144, (909) 537-5440. Program details are listed under the College of Social and Behavioral Sciences Programs (p. 710).

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 ([http://armyrotc.csusb.edu](http://armyrotc.csusb.edu)), contact the ROTC Office, FO-124 and 125, (909) 537-5533. Program details are listed under the College of Social and Behavioral Sciences Programs (p. 823).
Graduate Degrees and Programs

Office of Graduate Studies

Chaparral Hall, Room 123
(909) 537-5058 Graduate Studies website (http://gradstudies.csusb.edu)

Postbaccalaureate students are those who already hold a bachelor’s degree and wish to continue their studies; they may be pursuing a certificate, credential, second bachelor’s, master’s, or doctorate degree. At CSUSB, postbaccalaureate students can choose from more than 40 master’s degree programs and concentrations, as well as a wide range of credential and certificate programs. CSUSB is also one of the few California State University campuses to offer a doctoral program in Educational Leadership. As the university grows, its nationally accredited graduate programs continue to gain recognition and garner awards. 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 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, houses the Office of Student Research, 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 Chancellor’s Doctoral Incentive Program
- Student Research and Travel Grants
- The Office of Student Research Grants and Programs

The university offers the following graduate programs:

- 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.
- Creative Writing, M.F.A.
- Studio Art and Design, M.F.A.
- 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. Detailed requirements of each program are listed by department and/or degree in the Graduate Degrees and Programs section of this bulletin.

Graduate Degree and Program Requirements

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 program coordinator 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:
a. 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 postbaccalaureate students, regardless of citizenship, whose preparatory education was principally in a language other than English and have a minimum score of 550 on the TOEFL, or a minimum score of 213 on the Computer Based TOEFL, who fail to achieve a grade of "B" (3.0) or higher in one of the 306 courses will be required to retake any 306 class.)
b. 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.
c. 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 for questions about the graduate writing requirement as it relates to postbaccalaureate students.
12. Graduate 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. Students should check with their program for program-specific requirements.

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. Students should check with their program for program-specific requirements.

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. 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.

Nursing 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.

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 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 Enrollment Verification).

**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 Academic Calendar (p. 26) 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**

Student Affairs website (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 Assistant Vice President 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 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 Studies, 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. Students interested in obtaining two master’s degrees should contact Graduate Studies, CH-123.

**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," available in the Graduate Studies Office and on the web at Graduate Studies website (http://gradstudies.csusb.edu). It provides information about the following: procedures, regulations, and responsibilities governing the master’s thesis or project; general requirements for thesis/project preparation and acceptance; and format requirements for the thesis/project. In addition, students must obtain specific department/division requirements from their advisor.

**Continuous Enrollment (Thesis and Project).** Students who have completed all course work and are working on the thesis/project must register for the thesis or project course required in their major discipline for the master's degree. **IMPORTANT NOTE:** Students register ONLY ONE TIME for the thesis/project course. If the thesis/project is not completed in the quarter in which the student first registered for the thesis/project course, then the student will receive a grade of RP (Report in Progress) for the course for that quarter. The RP grade in the course remains until the thesis/project is completed and approved by the student’s thesis/project advisor and the Dean of Graduate Studies, at which time the student’s professor will submit a “Change of Grade” form, replacing the RP grade with a letter grade.

In addition, students who have completed all course work and are enrolled in a thesis/project course must also register every quarter for the 698 course (Continuous Enrollment 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 the fee schedule.

Once officially accepted and processed, master’s theses and projects are made available to the public through CSUSB ScholarWorks.

**Graduation Requirement Check**

Candidates for degrees to be awarded must request a graduation requirement check (http://rrc.csusb.edu/evaluations/gradreqcheck.html) 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 under the Academic Regulations and Standards section of this catalog. 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 term will not be granted until the graduation check is refilled.

**Commencement**

Special Events and Guest Services- Commencement Office
(909) 537-7365

Participation in commencement activities is voluntary.

For dates and deadlines please visit commencement.csusb.edu

**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 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 Graduate Studies website (http://gradstudies.csusb.edu).

**Credential Students 2014/2015**

Students completing a Multiple Subject, Single Subject, Education Specialist Basic credential, Pupil Personnel Services or Designated Subjects credential during the 2014-15 academic year 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 2015. Specific information can be obtained from the College of Education, Student Services Office, CE-102, (909) 537-5609. The Credential Recognition Ceremony on the Palm Desert Campus will be held in May 2015 at PCD. 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.

Phi Kappa Phi

Academic Affairs Office, AD-101
(909) 537-5024 Phi Kappa Phi website (http://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

Elected faculty from each college, one graduate student, the Dean of Graduate Studies and the Faculty Senate Chair make up the Graduate Council, which is a Faculty Senate committee. 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 Graduate Studies with information relevant for graduate students. It is available on the Graduate Studies website (http://gradstudies.csusb.edu).

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 program coordinator 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.

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 400- 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.

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.

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, those who are only auditing courses, and those who have not yet completed the first quarter of their current program.

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. 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.

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

**Returning from Approved Leave of Absence.**
When students plan to return from their leave, a readmission form, available through the Office of Records, Registration and Evaluations, UH-171, (909) 537-5200, must be submitted within the filing period for the quarter of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

**Transcripts**
Applicants 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. CSUSB graduates do not need to furnish a CSUSB transcript. Some credential and master’s programs may require more than one transcript from each institution. Check with the program for application requirements.

**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:

<table>
<thead>
<tr>
<th>Load</th>
<th>Units Determined as Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Time</td>
<td>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</td>
</tr>
<tr>
<td>3/4 time</td>
<td>9.0 to 11.5 weighted units as determined above</td>
</tr>
<tr>
<td>1/2 time</td>
<td>6.0 to 8.5 weighted units as determined above</td>
</tr>
</tbody>
</table>

**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 100-200 no certification unless course is stated condition for admission to a graduate program

3/4 time

9.0 to 11.5 weighted units as determined above

1/2 time

6.0 to 8.5 weighted units as determined above

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

Independent study and self-paced courses will be certified for monthly educational benefits as regular residence courses.

**Graduate Degrees**

**College of Arts and Letters**

**Department of Art**
- Master of Arts in Art - Art Education (p. 191)
- Master of Arts in Art - Studio Art (p. 192)
- Master of Fine Arts in Studio Art and Design (p. 193)

**Department of Communication Studies**
- Master of Arts in Communication Studies (p. 210)

**Department of English**
- Master of Arts in English Composition (p. 233)
- Master of Fine Arts in Creative Writing (p. 236)

**Department of Theatre Arts**
- Master of Arts in Theatre Arts (p. 278)

**Department of World Languages and Literatures**
- Master of Arts in Spanish (p. 325)

**College of Business and Public Administration**
- Master of Business Administration for Executives (p. 408)
- Master of Business Administration for Professionals (p. 410)
- Master of Business Administration (p. 406)

**Department of Accounting and Finance**
- Master of Science in Accountancy (3:2 Program Option) (p. 378)
- Master of Science in Accountancy (p. 376)

**Department of Public Administration**
- Master of Public Administration (p. 403)

**College of Education**
- Master of Arts in Education - Correctional and Alternative Education Option (p. 475)
- Master of Arts in Education - Kinesiology Option (p. 477)
- Master of Arts in Education - Mathematics and Science Education Option (p. 481)
- Master of Arts in Education - Teacher Leadership Option (p. 479)
- Master of Science in Counseling and Guidance (p. 483)

**Department of Educational Leadership and Curriculum**
- Master of Arts in Education - Curriculum and Instruction Option (p. 542)
- Master of Arts in Educational Administration (p. 543)
- Doctor of Education in Educational Leadership (p. 485)

**Department of Educational Psychology and Counseling**
- Master of Arts in Education - Holistic and Integrative Education Option (p. 545)
- Master of Arts in Education - Special Education Option (p. 546)
- Master of Arts in Rehabilitation Counseling (p. 548)

**Department of Language, Literacy and Culture**
- Master of Arts in Education - Bilingual/Cross-Cultural Option (p. 551)
- Master of Arts in Education - Reading and Literacy Option (p. 552)
- Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) Option (p. 554)

**Department of Science, Mathematics and Technology Education**
- Master of Arts in Education - Career and Technical Education Option (p. 558)
- Master of Arts in Education - Environmental Education Option (p. 559)
- Master of Arts in Education - Instructional Technology Option (p. 562)
- Master of Science in Science, Technology, Engineering, and Mathematics Education (p. 563)

**College of Natural Sciences**

**Department of Biology**
- Master of Science in Biology (p. 588)

**Department of Chemistry and Biochemistry**
- Master of Science in Earth and Environmental Sciences (p. 603)

**Department of Health Science and Human Ecology**
- Master of Public Health (p. 634)
- Master of Science in Health Services Administration (p. 635)
Department of Mathematics
• Master of Arts in Mathematics (p. 665)
• Master of Arts in Teaching-Mathematics (p. 666)

Department of Nursing
• Master of Science in Nursing (p. 680)

School of Computer Science and Engineering
• Master of Science in Computer Science (p. 701)

College of Social and Behavioral Sciences
• Master of Arts in Social Sciences and Globalization (p. 818)

Department of Criminal Justice
• Master of Arts in Criminal Justice (p. 739)

Department of Political Science
• Master of Arts in National Security Studies (p. 776)

Department of Psychology
• Master of Arts in Child Development (p. 805)
• Master of Arts in General Experimental Psychology (p. 807)
• Master of Science in Psychology (p. 808)

Department of Social Work
• Master of Social Work (p. 835)

Graduate Studies
• Master of Arts in Interdisciplinary Studies: E-Marketing Communication and New Media (p. 848)
• Master of Arts in Interdisciplinary Studies (p. 846)

Certificates

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 filling 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 Certificate (p. 365)
Department of Accounting and Finance, JB-459, (909) 537-5704.

Applied Cultural Anthropology Certificate (p. 726)
Department of Anthropology, SB-327J, (909) 537-5502.

Arabic Certificate (p. 329)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Archaeology Certificate (p. 727)
Department of Anthropology, SB-327J, (909) 537-5502.

Asian Studies Certificate (p. 216)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Bilingual/Cross-Cultural Studies: Spanish/English Certificate (p. 330)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Biotechnology Certificate (p. 590)
Department of Biology, BI-329, (909) 537-5305.

Business Skills for the Artist Certificate (p. 196)
Department of Art, VA-105, (909) 537-5802.

Coaching Certificate (p. 650)
Department of Kinesiology, HP-120, (909) 537-5349.

Communication Skills Certificate (p. 216)
Department of Communication Studies, UH-018, (909) 537-5815.

Computer Systems and Programming Certificate (p. 703)
School of Computer Science and Engineering, JB-307, (909) 537-5326.

Criminal Justice Certificate (p. 741)
Department of Criminal Justice, SB-209, (909) 537-5506.

Cyber Security Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

Education Certificate (p. 532)
College of Education, CE-221, (909) 537-3600.
Fitness Management Certificate (p. 650)
Department of Kinesiology, HP-120, (909) 537-5349.

French/English Translation Certificate (p. 331)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Gender and Sexuality Studies Certificate (p. 536)
University Hall, Room 201.46, (909) 537-5838.

Geographic Information Systems Certificate (p. 759)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

German/English Translators Certificate (p. 329)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Gerontology Certificate (p. 637)
Department of Sociology, SB-327, (909) 537-5541.

Health Care Management Certificate (p. 637)
Department of Health Science and Human Ecology, PS-226, (909) 537-5339.

Hispanic Literatures Certificate (p. 332)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Human Resources Certificate (p. 366)
Department of Management, JB-461, (909) 537-5731.

Information Systems Management Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

International Relations Certificate (p. 779)
Department of Political Science, SB-112, (909) 537-5535/5534.

Introductory Actuarial Science Certificate (p. 668)
Department of Mathematics, JB-370, (909) 537-5361.

Introductory Mathematics Certificate (p. 668)
Department of Mathematics, JB-370, (909) 537-5361.

Islamic and Middle Eastern Studies Certificate (p. 718)
Department of History, SB-327F, (909) 537-5524.

Latin American Studies Certificate (p. 727)
Department of Anthropology, SB-327J, (909) 537-5502.

Museum Studies Certificate (p. 728)
Department of Anthropology, SB-327J, (909) 537-5502.

Native Nations/Indigenous People Certificate (p. 719)
College of Social and Behavioral Sciences, SB-207, (909) 537-7569

Paralegal Studies Certificate (p. 741)
Coordinator’s Office, SB-209C, (909) 537-5506.

Puppetry Certificate (p. 281)
Department of Theatre Arts, PA-111, (909) 537-5876.

Recreation Leadership Certificate (p. 651)
Department of Kinesiology, HP-120, (909) 537-5349.

Social Services Certificate (p. 817)
Department of Sociology, SB-327, (909) 537-5541.

Spanish Applied Linguistics Certificate (p. 333)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Spanish for Public Services Certificate (p. 333)
Department of World Languages and Literatures, UH-314, (909) 537-5847.

Supply Chain Management Certificate (p. 366)
Department of Information and Decision Sciences, JB-460, (909) 537-5723.

Teaching Writing Certificate (p. 239)
Department of English, UH-334, (909) 537-5824.

Theatre for Youth Certificate (p. 281)
Department of Theatre Arts, PA-111, (909) 537-5876.

Urban Planning Certificate (p. 759)
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519.

Writing: Creative Writing Certificate (p. 240)
Department of English, UH-334, (909) 537-5824.
Writing: Professional Writing Certificate (p. 240)
Department of English, UH-334, (909) 537-5824.

The following certificates are restricted to postbaccalaureate/graduate students only

Conflict Management Certificate (p. 217)
Department of Communication Studies, UH-018, (909) 537-5815 or Department of Management, JB-461, 537-5731.

Crosscultural, Language and Academic Development (CLAD) Certificate (p. 530)
Teacher Education Office, CE-102, (909) 537-5650.

E-Learning Certificate (p. 531)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Education of the Gifted and Talented Certificate (p. 533)
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606.

Educational Technology Certificate (p. 534)
Department of Science, Mathematics and Technology Education, CE-335, (909) 537-5290.

Environmental Education Certificate (p. 535)
Environmental Education Office, CE-, (909) 537-5640.

Holistic and Integrative Education Certificate (p. 537)
Department of Language, Literacy and Culture, CE-261, (909) 537-7405.

Intelligence Methodology Certificate (p. 779)

Reading and Literacy Certificate (p. 538)
Department of Language, Literacy and Culture, CE-261, (909) 537-7405.

Rehabilitation Counseling Certificate (http://bulletin.csusb.edu/colleges-schools-departments/education/educational-psychology-counseling/rehabilitation-counseling-certificate)
Department of Educational Psychology and Counseling, CE-243, (909) 537-5606.

School Business Management Certificate (p. 539)
Department of Educational Leadership and Curriculum, CE-374, (909) 537-7404.

Teaching Writing Certificate (p. 239)
Department of English, UH-334, (909) 537-5824.

Teaching English as a Second Language Certificate (p. 239)
Department of English, UH-334, (909) 537-5824.

Credentials

Basic Teaching Credential Programs

Accredited by the National Council for Accreditation of Teacher Education (NCATE)

- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 507)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 494)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 509)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 496)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 505)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 492)

Specialist and Services Credential Programs

- Administrative Services Preliminary (p. 517)
- Administrative Services Preliminary (Internship) (p. 518)
- Administrative Services Professional (p. 519)
- Education Specialist Clear Credential (p. 520)
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 523)
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 521)
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 522)
- Pupil Personnel Services: School Counseling (p. 524)
- Pupil Personnel Services: School Psychology (p. 525)
- Reading and Literacy Leadership Specialist Credential (p. 527)
- School Nurse (p. 528)
- Supervision and Coordination of Designated Subjects Programs (p. 529)

Graduate Degrees and 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>Program</td>
<td>College</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Correctional Education, Ph.D.</td>
<td>College of Education (joint with Claremont College)</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>National Security Studies, M.S.</td>
<td>College of Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Special Education, M.S.</td>
<td>College of Education</td>
</tr>
<tr>
<td>School Psychology, Ed.S.</td>
<td>College of Education</td>
</tr>
</tbody>
</table>
Academic Support and Campus Services

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 exceeds 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.

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.

Scheduling of Classes

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

The two-period, two-day-per-week format is utilized for Tuesday-Thursday classes and most late afternoon and evening courses; the single four-hour period format has been found most appropriate for certain evening and weekend classes. The university attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly. Current Class Schedules (http://academicscheduling.csusb.edu) are available approximately three weeks before the beginning of Priority Registration for a term.

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.

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 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. At least 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 (909) 537-5889.

Phi Kappa Phi

Academic Affairs Office, AD-101
(909) 537-5024 Phi Kappa Phi website (http://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 seniors, juniors 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.

Academic Technologies and Innovation

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

The Academic Technologies and Innovation (ATI) 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 ATI 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 Academic Technologies and Innovation office.

OnLine 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 Academic Technologies and Innovation website at ATI website (http://odl.csusb.edu) for minimum hardware and software requirements for taking any courses on the Internet.

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

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

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, was renamed University Enterprises in January 2013.

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 John M. Pfau Library addition, doubling the building floor space, opened in Fall 1994. Besides greatly increasing library space, the building houses the Information Technology Services division, which is comprised of the Departments of Administrative Computing & Business Intelligence, Enterprise Applications & Technology Support; Information Security & Emerging Technologies, Creative Media Services; Academic Technologies & Innovation; 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 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, 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 and Frances 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 Corporation Yard is home to the CSUSB Police Department, a state law enforcement agency that employs sworn police officers and an active support staff for 24-hour protection of the campus community.

The Facilities Management addition completed in January 2000, also located in the Facilities Management Corporation yard, brought together Facilities Services, Environmental Health & Safety (EHS) and Capital Planning, Design and Construction departments. This addition provided much needed shops, warehouses, and administrative offices. The Administrative Services building opened in 1999 and includes Mail and Receiving, Printing Services, Property Management and Campus Stores.

The Social and Behavioral Sciences building opened in Fall 2002 and houses nine academic departments, 23 classrooms equipped with advanced technology, 32 state-of-the-art teaching and research laboratories, offices for faculty and staff, a dozen centers and institutes, the Infant Toddler Lab School, the Community Counseling Center, 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, 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 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, two Technology Demonstration Labs, a Center for Research, Evaluation and Assessment in Education, a TESOL center, a Center for the Study of Correctional Education, 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.

The Student Recreation and Fitness Center offers an exciting array of programs in the areas of fitness, wellness, intramural and club sports, aquatics, leadership and communication, outdoor adventure and informal recreation. The 38,000-square-foot complex, located at the south end of campus, houses a 34’ climbing wall, 8,800-square-foot fitness floor, multi-purpose athletic court, locker rooms and two group activity rooms for aerobics, dance and martial arts classes.

The state-of-the-art Leadership Challenge Center provides unique team-building and leadership development programs for CSUSB students, departments, clubs and teams. The center is designed to help teach a person how to appropriately build trust in others, increase individual interpersonal skills, social skills and physical abilities. The Leadership Challenge Center consists of the 50-foot-high-structure, as well as other challenge sections built lower to the ground. A team elements section allows teams of two to eight people to work together and support each other in problem solving, as well as an individual/partner portion that emphasizes support and goal setting.

In past years, students approved a fee referendum to help fund an expansion and renovation of the Student Union, now named Santos Manuel Student Union thanks to a generous gift to the university by San Manuel Band of Mission Indians. Opening in Spring 2006, the renovated Santos Manuel Student Union provides dining areas with various restaurant choices; office space for student clubs and organizations; additional space for the university’s Cross Cultural Center; Women’s Resource Center; Osher Adult Re-Entry Center; Pride Center and Office of Ombuds Services; a 200-seat theatre for films, concerts and speakers; meeting rooms; student lounges and a large two-story atrium at the hub of the building.

The renovation of the Biological Sciences building was completed in Spring 2007 and the renovation of the Physical Sciences building was completed in Spring 2008. Feasibility studies were also completed justifying a University Theatre and Performing Arts addition and renovation and a Library renovation.

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

University Library

Library website (http://www.lib.csusb.edu)

The John M. Pfau Library provides essential support for the university’s curriculum and strives to motivate and empower people to be lifelong learners. The dedicated staff, most of which works behind the scene,
acquires excellent resources, develops intellectual access to them, and provides research assistance at the point of need.

The collections include a wealth of materials in a variety of formats. While they are specially built and maintained to support the curriculum, they are not restricted to it. The Special Collections Department collects and preserves artifacts, photographs, and memorabilia on the local and regional history of this area along with the history of the university. The library is also a depository library for both Federal and State of California government documents.

Numerous database subscriptions provide a wealth of digital resources and extend the reach of scholars far beyond our walls. The efficient Interlibrary Loan service provides the means to obtain nearly any book or article not owned by the library.

Benefit from the special expertise of librarians in person at the Reference Desk, on the phone, or online via the web site. Faculty may schedule librarian-taught research instruction sessions for their classes. Individuals may make appointments with a librarian for more in-depth assistance.

There is much more to know about how the library works to enhance the university experience than will comfortably fit in this brief description. Students are invited to come on by and (pun intended!) check us out.

Information Technology Services
Information Technology Services website (http://www.irt.csusb.edu)

The mission of the division of Information Technology Services (ITS) is to provide best of class technology support services to our students, faculty and staff, to support faculty driven innovation and research, and to improve operational efficiency through business intelligence and analytics.

ITS Division is guided by the following principles:

- Be responsive to the changing information technology needs of a highly diverse student, faculty, and staff community.
- Offer support and leadership through collaborative efforts with faculty, students, and staff.
- In a participative manner, perpetuate information technology integration as a part of the academic and administrative fabric covering all programs.
- Aggressively respond to the tactical objectives set forth by the campus strategic plan.
- Advance CSUSB as one of the foremost teaching/learning environments in higher education by applying, as appropriate, technology solutions.

University wide technology initiatives are governed by the IT Governance Executive Committee (http://its.csusb.edu/governance). Organizational, ITS has five departments managed under the office of the Vice President and Chief Information Officer for Information Technology Services:

- Academic Technologies & Innovation
- Technology Operations & Customer Support
- Administrative Computing & Business Intelligence
- Creative Media Services
- Information Security & Emerging Technologies

Academic Technologies and Innovation
Academic Technologies and Innovation website (http://odl.csusb.edu)

The Department of Academic Technologies and Innovation (ATI), a new department under ITS is focused on fostering and supporting faculty led innovation, student engagement technologies, and growth in hybrid and online learning courses. The ATI Department works closely with the Division of Academic Affairs, the Teaching Resource Center (TRC) and the College of Deans and Department Chairs in identifying and setting priorities and standards on academic technology initiatives. The ATI Department consists of instructional designers, technologists, and classroom/student technology technicians who support online instruction, and classroom technologies including smart classrooms and distance learning systems. The department also works with Academic Technologies and Innovation subcommittee of the IT Governance Executive Committee in prioritizing and pursuing various academic technology initiatives.

Technology Operations and Customer Support

Technology Operations and Customer Support website (https://support.csusb.edu)

Led by the Associate Vice President of ITS, the Department of Technology Operations and Customer Support consists of three distinct units that develops, maintains, and provides support to many campus-wide systems on a 24 x 7 x 365 basis.

Technology Support Center and Enterprise Applications

The Technology Support Center is the one-stop shop for support, information, and consulting of all technology-related matters. On a 24/7 basis, the technology support center provides the University with effective, timely, and consistent responses to technology support needs including desktop, Blackboard, e-mail, MyCoyote, network, and other technology issues. The Technology Support Center can be reached at by email at support@csusb.edu, through the Technology Support Center and Enterprise Applications web site (http://support.csusb.edu), or at (909) 537-7677.

Enterprise Applications provides reliable services to many campus-wide systems such as computer/Active Directory authentication, Exchange e-mail, Office 365, Blackboard, Google App, and other enterprise workflow management systems.

Data Center Services

The Data Center provides efficient and effective utilization of server resources for the University. The Data Center maintains and administers hardware and software environments to support all administrative computing and enterprise application systems. These services include: virtual server environment, server co-location, security, configuration, maintenance, backup and recovery, computer generated media and distribution, on-line/paper based surveys, test scoring, tape processing, optical scanning services, and report processing.

Telecommunications and Network Services

Telecommunications Services provides and maintains voice services to the campus community including: telecommunications equipment, voice mail services, emergency phone access, call center applications, call accounting and reporting.

Network Services installs, manages, and maintains the campus wired and wireless network infrastructure, as well as various campus-wide network
applications, such as DNS, DHCP, NTP, IP routing, and firewall support to name a few. TNS also administers campus cellular accounts, campus online directory, and processes work orders relating to voice and data services on campus.

Administrative Computing and Business Intelligence

Administrative Computing and Business Intelligence (ACBI) is a department under ITS. ACBI develops, provides support for, and manages various campus enterprise software applications on a variety of hardware platforms. Support is provided for all CSUSB administrative systems. ACBI strives to be the richest source of support for information technology resource management. To do this, we encourage our teams to work in a collaborative environment and we give them the resources and support they need to bring the best practices to life. At ACBI, we realize that a supportive work environment is crucial to success. We understand that success is about collaborating and maintaining clear communication between partners and technical support.

Creative Media Services

Creative Media Services provides the campus community a variety of media design and support services. From advertising to web development we offer a wide array of services that the University relies on every day.

Coyote Advertising

Our advertising team is comprised of some of the most talented and creative student minds in our region. We are eager to help plan and service every area of your advertising and marketing needs.

Assistive Computing Resource Center

ACRC provides assistive technology software and hardware to students, faculty, and staff on the CSUSB and Palm Desert campuses. Assistive technology (AT) helps individuals with disabilities overcome barriers put in place by disability that may inhibit equal access to information and resources.

Coyote Radio

Coyote Radio (http://radio.csusb.edu) can be heard via our live 24-hour internet stream. The station’s mix of music includes many of Southern California’s new musical artists, such as: Noa James, 200 West, New Division, etc. Coyote Radio is also available on iTunes U.

Media Design

Formerly ACM Creative Services, Media Design supports the many facets of Creative Media Services, as well as those of the University. Having designed projects for almost every college and department at CSUSB, we provide design services for the academic and promotional needs of the campus. With our expertise in graphic, web, and branding design, we ensure CSUSB maintains a positive visual identity and that faculty and staff have access to the latest technologies and trends in visual communication.

Photography

CMS offers photographic support for any campus-sponsored events that need promotional or archival images. Our photographer can help you develop digital images that are appropriate for web, print or archival purposes. We can produce CD ROMs that showcase your event or you can download any number of select campus images for use on your campus-sponsored project.

Video Production

Academic video productions vary, from simple classroom video clips to web-based learning objects. Promotional projects have ranged from short achievement-oriented videos, highlighting university support and accomplishments, to complex scripted productions used for university advancement and recruitment.

Web Development

Our staff has more than 40 years of combined experience in the area of web development and design. Whether you need a brief consultation, a redesign of your existing web site, or implementation of a database-driven page, we are here to provide you with solutions.

Coyote OneCard

The Coyote OneCard is the official California State University, San Bernardino identification card. It provides proof of University enrollment and/or employment. We are currently located in the basement of the Pfau Library PL-005 inside the Media Services area. You can use your Coyote OneCard as your ATM/Debit card when you open a U.S. Bank checking account. Please visit the U.S. Bank website (https://www.usbank.com/campus/california-state-san-bernardino) or the Coyote OneCard office for more information.

Media Services

Media equipment is fast becoming the backbone of the instructional environment and Media Services provides access to a wide variety of instructional technologies. Whether the equipment is already installed in one of our Smart Classrooms or if media equipment is delivered to your classroom, our staff will ensure you have what you need. Equipment for special campus events, meeting or conferences is also available.

Keeping equipment in good operational order requires a thorough preventative maintenance program as well as access to knowledgeable technical staff. Our instructional media and computer technicians are available to advise faculty and staff in proper operation of computers. Installation of special software for use in Smart Classrooms is also available.

Information Security and Emerging Technologies

The Information Security and Emerging Technologies Office (ISET) coordinates the implementation of information security practices and procedures to ensure the confidentiality, integrity and accessibility of university information systems and assesses emerging technologies for campus adoption. The ISET responsibilities include all aspects of information security management and compliance.
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.

National Student Exchange Program

Badger House, Room 112

(909) 537-5239 National Student Exchange Program website (http://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) 537-5918 University Enterprises Corporation website (http://uec.csusb.edu)

University Enterprises Corporation at CSUSB ("UEC") supports the university’s educational mission by providing quality services that complement the instructional program. The University depends upon UEC to provide services that cannot be supported with state funds. Although UEC is a legally separate 501(c)(3) nonprofit corporation, it is a fully integrated part of the California State University San Bernardino campus.

UEC is responsible for business enterprises on campus including, but not limited to, dining services, bookstore, convenience store, and vending services. UEC also serves as the grantee for federal, state and local funding for research and sponsored projects.

Coyote Bookstore

(909) 537-5966 Coyote Bookstore website (http://coyotebooks.bkstr.com)

The Coyote Bookstore is operated by the Follett Higher Education Group. The bookstore carries all course-required textbooks and offers a textbook rental program, digital options, and year-round book buy-back. The Coyote Bookstore also has hundreds of other 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. Students, faculty and staff enjoy educational discounts on computer hardware, peripherals and software purchases.

Dining Services

(909) 537-5917 Dining Services website (http://www.csusbdining.com)

Dining services and convenience stores 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, and Starbucks coffee house. In addition, the national brands Wow Café and Wingery, Jump Asian Express, and Subversions offer additional appetizing options. 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.

In addition, the four Coyote Express and Coyote Market convenience stores provide the perfect solution to the busy college lifestyle with a wide variety of pre-packaged sandwiches and salads, cold drinks, coffee, espresso drinks and tempting snacks—perfect for on-the-go dining. Scantrons, bluebooks and other supplies are also stocked for our students’ convenience. Convenience Store locations currently include the second floor of Jack Brown Hall, in the wedge of Pfau Library, in the main Library, and in the Santos Manuel Student Union.

Cash, credit, and Coyote One Card Flex Cash accepted at all locations.

CSU Soda Springs Desert Studies Center

Desert Studies Center website (http://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: WPresch@Fullerton.Edu.

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

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.

College of Arts and Letters

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) 537-5866. 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: Vinip 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 Brandtley, 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 Eggleston 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, Water Resources Institute website (http://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.

Center for Criminal Justice Research. Director, Gisela Bichler, Department of Criminal Justice (909) 537-5510. Established to provide expertise and research assistance to criminal justice agencies and organizations.

California Council on Economic Education. Director, Jim Charkins, Department of Economics, (909) 537-5553. Statewide headquarters of the California Council on Economics Education which supports and encourages programs that provide K-12 teacher training in the economics method/enhancing K-12 economics curricular offerings to include information on the US economy, the world economic system, and the economic content of various social and political issues.

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

Center for the Study of Hate and Extremism. Director, Brian Levin, Department of Criminal Justice, (909) 537-7711. Established to conduct research, formulate policies and serve as a community resource in the areas of hate and extremism.

The Center for Indigenous Peoples Studies. Director: James V. Fenelon, (909) 537-7291. The university offers a certificate program in Native Nations and Indigenous Peoples Studies, overseen by the Center for Indigenous Peoples Studies in the College of Social and Behavioral Sciences. The course work provides students with a broad introduction to Native Nations and Indigenous Peoples, creating a foundation for students to pursue advanced study or possible in employment in related fields. The curriculum is multidisciplinary, bringing together a diverse faculty of specialists. Core courses focus Indigenous cultures, history, cultural resource management and preservation, sovereignty, world systems analysis and the arts. Students then select courses in consultation with the certificate coordinator in order to meet both the certificate requirements and their own individual interests.
Center of Islamic and Middle East Studies (CIMES). Director, Ralph Salmi, Department of Political Science, (909) 537-3414. Established as a teaching and research center to serve the region, and the CSU by supporting the development of cross-disciplinary curricula, language programs in Arabic, Turkish and Farsi, and research on issues related to the Middle East in world affairs.

Center for Labor Studies. Director: Eric Nilsson, (909) 537-5564. The Center for Labor Studies is the site of an innovative partnership among the economic social advancement in the Inland Empire. The Center develops knowledge about the labor market in the Inland Empire, disseminate this knowledge in a way that contributes to social and economics advancement, and focus the skills and energies of the members of the CSUSB community on issues relevant to labor in the Inland Empire. Importantly, the Center gives CSUSB students opportunities for research and extracurricular activities that enhances their intellectual and personal development and will permit them to undertake leadership roles in the Inland Empire and beyond.
**Student Life**

**Office of the Vice President for Student Affairs**

University Hall, Room 231  
(909) 537-5185 Student Affairs website (https://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. Specific policies regarding student non-academic and discrimination-related grievances, discipline and emergency calls for students are administered by this office. A more complete statement on student privacy rights is available in the Academic Regulations and Standards (p. 101) section of the Bulletin of Courses.

**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.

**Alumni Association**

(909) 537-3700 Alumni Association website (http://www.csbsbalumni.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.

**Associated Students, Inc. (ASI)**

(909) 537-5932 ASI website (http://asi.csusb.edu)

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 utilizing ASI funding support are the ASI Activities Board which puts on such events as movie nights, tailgates, the annual Mr. and Ms. CSUSB Pageant, 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 cosponsors entertainment events with the Coussoulis Arena. While all these activities are important, ASI’s real value lies in its ability to provide a setting in which leadership skills are developed. Every spring campus-wide elections are held to elect the President, the Executive Vice President, the Vice President for Finance, the Vice President for University Affairs, 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 members of ASI.

**Athletics**

(909) 537-5011 Athletics website (http://csusbathletics.com)

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.

**Career Center**

(909) 537-5250 Career Center website (http://career.csusb.edu)

The mission of the Center is to support the career readiness of all students and alumni by providing advising, assessment, workshops, career events, employer networking opportunities, internships and job opportunities that result in the establishment or advancement of personalized career goals. Please visit our website for the calendar of events. The Career Center’s vision is to be the premier campus resource for all things related to career readiness by consistently updating our service offerings and making our resources available on-demand 24/7.

Services include:

- Career Counseling available by appointment or walk-in daily.
- Skills and Interests Assessments evaluated by certified staff. Resume review, job search advice, career planning, help selecting a major.
- Mock Interviews - Interview practice sessions tailored to your upcoming interview with professional review and advice.
- Workshops and Presentations - Past topics include: Resume Building, Job Search, Internship Preparation, Managing Your Social Media, Interview Practice & Preparation.
- Career Events - 48 off-campus career events, 5 on-campus career fairs annually.
- CareerLaunch - The online job database: Holds full time, part time and student employment as well as volunteer and internship opportunities; post resume, research employers, and apply for jobs.
- Internships - We manage some internship programs on campus including scholarships providing paid internships and teach students how to use an internship to improve skills and find permanent employment.
• Employer Engagement - With dozens of events and hundreds of employer partners, the Career Center is the single largest resource on campus designed specifically to support your career success by connecting employers to CSUSB.

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.

Coussoulis Arena

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

Coussoulis Arena is one of 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:

- Kevin Hart
- Gabriel Iglesias
- Sesame Street Live
- Ja Rule
- Sammy Hagar
- Sugar Ray and Everlast
- The Harlem Globetrotters
- Howie Mandel
- Dr. Maya Angelou
- BB King
- AFI

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.

Housing and Residential Life

Office of Housing and Residential Life
(909) 537-4155 Housing website (http://www.housing.csusb.edu)

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

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

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

University Village is an environment for upper-class students and is considered “premier living” with private bedrooms for each resident. Most apartments are 4 bedrooms with 2 bathrooms or 2 bedrooms with 1 bathroom units. There are also a limited number of 4 bedroom and 4 bathroom apartments. Each apartment is equipped with a furnished living room and full kitchen, complete with a microwave and dishwasher. Each building has an elevator and is accessible for individuals with disabilities. Laundry facilities are located on each floor.

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

The Residence Hall Association (RHA) organizes student programs for the residents of the “Villages at CSUSB.” 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 Resident Assistants, Program Coordinators and Hall Coordinators 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 staff is supervised closely by an Area Coordinator of Residential Education (ACORE). These professionals bring extensive skills and experiences to CSUSB. Directly responsible for a specific area, each ACORE 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 2014-16 academic years includes a meal plan and is projected to be $7389 per person, per quarter for a double room, $8604 per quarter for a single room, and $9144 per quarter for a super single room. Rental rates in Arrowhead Village for the 2014-16 academic years are projected to be $2307 per person, per quarter in a private, single occupancy 4-bedroom and 2-bathroom apartment; $2784 per quarter in a private studio; and $2838 per person, per quarter in a private, single occupancy 2-bedroom and 2-bathroom apartment. Rental rates in University Village for the 2014-16 academic years are projected to be $2448 per person, per quarter in a private single occupancy 4-bedroom and 2-bathroom apartment; $2751 per person, per quarter in a private single occupancy 2-bedroom and 1 bathroom apartment; $2799 per person, per quarter in a private single occupancy 4-bedroom and 4 bathroom apartment. 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.

**Office of Ombuds Services and Gender Equity**

Santos Manuel Student Union, Room 103-A

(909) 537-5635 Ombuds website (http://ombuds.csusb.edu)

The term "ombuds" is a Swedish word which refers to the people’s "representative." It 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 Officer’s goal is to seek constructive and equitable outcomes on any university-related concern. The service is provided free-of-charge and works in cooperation with campus constituencies to help resolve issues.

Gender Equity relates to government legislation, Title IX—a federal law that prohibits discrimination on the basis of sex in an educational institution’s academic, educational, extracurricular and athletic activities (both on and off campus). Title IX protects all people regardless of their gender or gender identity from sexual harassment, violence, discrimination or retaliation by students, staff, faculty, Third Parties and applicants. Any acts of criminal sexual activity and incidents of sexual violence, such as sexual assault, sexual coercion and dating or domestic violence should be reported directly to University Police (909-537-5165). Subsequently, the Title IX Coordinator provides remedies to victims and oversees the investigation process. The office also educates and brings awareness to the campus community about sexual consent, harassment, prevention, policies, procedures, Executive Orders and reporting or filing complaints.

**Santos Manuel Student Union (SMSU)**

(909) 537-5940 SMSU website (http://studentunion.csusb.edu)

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., Ombuds Services 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, 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 LGBTIQ 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.

Services to Students with Disabilities (SSD)

University Hall, Room 183
(909) 537-5238, TTY (909) 537-7230 Services to Students with Disabilities website (http://ssd.csusb.edu)

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.

SOAR (Student Orientation, Advising, & Registration)

Orientation & First-Year Experience (FYE) Programs
(909) 537-3236 SOAR website (http://soar.csusb.edu)

SOAR offers dynamic programming for freshmen, and transfer students in order to equip them 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 SOAR program is designed to minimize anxiety and to promote positive attitudes about student success at the university. In addition, there are leadership opportunities for students to serve as SOAR Leaders and on the SOAR Planning Committee. Once classes begin, the programming doesn’t stop. There are a plethora of first-year experience programs students can partake in to enhance their university experience.

Student Clubs and Organizations

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

CSUSB is home to more than 130 student clubs and organizations that offer a wide range of roles and responsibilities. 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. They create their own experiment with different roles that will help them identify their 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, while improving their public speaking skills.

Fraternity and Sorority Life

Greek Life (http://studentleadership.csusb.edu/greekLife) is a great way to get involved on campus, and CSUSB is home to eighteen national 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 created by the founders of each organization, most of which were created 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

The Leadership Academy (http://studentleadership.csusb.edu/LeadershipAcademy) is a comprehensive certificate program that offers skill-building workshops focusing on Individual Development, Organizations and Community, and Diversity Awareness. The Academy includes a personal assessment of the 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 program, 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 Conduct and Ethical Development (SCED)

(909) 537-7172 Student Conduct and Ethical Development website (http://studentaffairs.csusb.edu/studentconduct)

The Office of Student Conduct and Ethical Development is committed to fostering student growth, development, and the utilization of the educational disciplinary process as a vehicle in re-directing student
behaviors towards their ultimate success, retention, and implementing appropriate educational sanctions and consequences when necessary. Students are a reflection of the life-long Coyote legacy in and out of the classroom, their community, workplace, and the world. Being a part of the Coyote community includes responsibilities for students to safeguard the academic mission of the institution, abide by federal, state, and local laws, and uphold the Standards for Student Conduct, University policies, and regulations to maintain a campus decorum that supports the promulgation of civility, integrity, and a safe living-learning environment.

All student academic dishonesty and behavioral complaints, questions, or concerns shall be directed to the Office of Student Conduct and Ethical Development at (909) 537-7172 or student-conduct@csusb.edu. The office continues to establish partnerships with campus units and student involvement to promote proactive educational initiatives, programs, and opportunities. Office staff is also available as a resource for consultation and to provide educational workshops or presentations upon request. Copies of the Standards for Student Conduct and the Student Conduct Procedures are available in the Office of the Vice President for Student Affairs in University Hall, room 231.

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 Student Health Center website (http://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. Services 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 Student Health Center website (http://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 Psychological Counseling Center website (http://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 life style 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.

Student Recreation and Fitness Center

(909) 537-BFIT Recreational Sports website (http://recsports.csusb.edu)

The Student Recreation and Fitness Center offers an exciting array of programs in the areas of fitness, wellness, intramural and club sports, aquatics, leadership and communication, outdoor adventure and informal recreation. This new 38,000 square foot complex, located at the south end of campus, houses a 34’ climbing wall, 8,800 square foot fitness room, multi-purpose athletic court, locker rooms and two group activity rooms for aerobics, dance and martial arts classes. The Recreational Sports department 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.

Fitness/Wellness/Group Exercise

The Student Recreation and Fitness Center offers one-on-one training, buddy training, personal training development courses, and fitness assessments as a complement to our state of the art fitness room. The Group Exercise program offers over 40 classes per week. All programs are designed to enhance the participant’s experience and facilitate healthy living habits. Equipment and services include:

- Treadmills
- Elliptical Trainers
- Recumbent/Upright Bike
- Steppers
- Weight Trainers
- Functional Training Equipment
- Free Weights
- Plate Loaded Equipment
- Heavy/Speed Bags
- Fitness Assessments
- Cardio Classes
- Cycling Classes
- Dance Classes
- Instructional Classes
- Mind/Body Classes
- Sculpt Classes

Informal Recreation

The hours of the Student Recreation and Fitness Center are designed to meet the demands of the busy lives of our participants with several opportunities from the early opening hours until the late evening. 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 martial arts skills. Informal recreation hours will be posted outside of each of the three available rooms.

Climbing Wall

As the centerpiece of the Student Recreation and Fitness Center, a 34’ climbing wall offers opportunities for beginner and intermediate classes, open climbing, and social events. All equipment is provided and a safety orientation and skills test are offered to our participants.

Outdoor Trips

The unique location of the campus within close proximity to the Pacific coastline, the wilderness of Baja, the peaks of the Sierra Nevada Mountains, and the High Desert allows for a wide range of activities. Participants on outings will learn how to safely explore the great outdoors, develop an appreciation and understanding of their natural surroundings, experience personal growth, leadership development, learn teamwork and healthy communication skills, and of course, have fun. Activities include:

Intramural Sports

The Intramural Sports program offers a variety of sport leagues and tournaments for all skill levels and interests. Opportunities are available for participants who just want to learn a new sport or for the very competitive players who want to own on-campus bragging rights. Intramural sports leagues are designed for players to enjoy themselves in a safe environment. Sports include:

- Basketball
- Flag Football
- Soccer
- Dodgeball
- Softball
- Volleyball

Sport Clubs

The Sport Club program promotes student participation in a wide range of competitive sports. Each sport club is managed and run by student leaders. Sport Club participants not only enjoy the rewards of competition, but also gain skills in collaboration, leadership, problem-solving, and financial management. Current clubs include:

- Mixed Martial Arts
- Coyote Running
- Women’s Soccer
- Table Tennis
- Men’s Soccer
- ’Yote Volleyball

Aquatics

The swimming pool is located behind the Physical Education building. Hours vary and can be found on the Recreational Sports webpage. Services include:

- Lap Swimming
- Certification and Training
- Learn To Swim Instructional Classes
- Aerobics

Leadership Challenge Center

The state-of-the-art Leadership Challenge Center provides unique team-building and leadership development programs for CSUSB students, departments, clubs, and teams.

Our programs are designed to help teach people how to appropriately build trust in others, increase individual interpersonal skills, social skills, and physical abilities. The Leadership Challenge Center consists of the 50-foot-high-structure, but also other challenge sections built lower to the ground. A team elements section allows teams of two to eight people to work together and support each other in problem solving, as well as an individual/partner portion that emphasizes support and goal setting. The center’s programs provide a safe environment that allows participants to step outside their comfort zone, take a risk, learn, and grow.

Project UPBEAT (University Preparation by Early Academic Training)

The Student Academic Services Outreach Program is designed to motivate and enhance student awareness about seeking a postsecondary education. The program targets middle school students through Project
UPBEAT (University Preparation By Early Academic Training). Project UPBEAT’s objective is to provide an educational, college-oriented program to students and parents. Primary emphasis of the program is to increase the number of students pursuing a college education. Project UPBEAT participants are likely to be regularly admissible to four year universities upon high school graduation. Students are invited to the campus for tours, CSUSB faculty presentations and special events. Project UPBEAT serves 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 website (http://admissions.csusb.edu)

University Police

911 for emergencies
(909) 537-5165 or (909) 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 (909) 537-7777 for all other requests.

A complete “Campus Safety Report” is available through the home university web page CSUSB website (http://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.

Veterans Success Center

(909) 537-5195 Veterans Success Center website (http://veterans.csusb.edu)

CSUSB’s Veterans Success Center (VSC) opened its doors on May 25, 2012. The center’s mission is to provide support services focused on the special needs and requirements of today’s military veterans, service members, and dependents to assist them in transitioning to the university environment and achieve their academic and personal development goals. The VSC is a 1,200 square foot facility, which houses a computer lab where student veterans, military members, ROTC cadets, and dependents can work on assignments and a group room for students to congregate between classes and hold study groups. The center offers dynamic programs that are comprehensive in scope and sensitive to the unique needs of service members. Services include, new student veterans’ orientation, monthly seminar series, a weekly mental health support group, STEM tutoring, advocacy, and referral services, and crafts.
Financial Information

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.

Fees

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

The following reflects applicable systemwide 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 Facilites 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

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| Student union fee
  - Fall: 126.50 |
  - Winter: 122.50 |
  - Spring: 122.50 |
  - Summer term: 95.00 |
| Health Center service fee: $73.50 |
| Summer only: $55.50 |
| Student Success fee: $54.00 |

### Instructionally related activities fee:

### Nonresidents (U.S. and foreign)
Tuition (in addition to other fees charged to all students):
- per unit: $248.00
- one-half unit: $124.00

### Residence halls (estimated annual costs)

#### Serranno 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

Note: Fees subject to change without notice.
### Financial Information

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative fee</td>
<td>22.00</td>
</tr>
<tr>
<td>Credential fee</td>
<td>60.00</td>
</tr>
<tr>
<td>Various laboratory, activity, and art studio fees</td>
<td>consult the Class Schedule for current fees</td>
</tr>
<tr>
<td>Late registration</td>
<td>25.00</td>
</tr>
<tr>
<td>Enrollment cancellation fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Failure to meet required appointment or time limit</td>
<td>5.00</td>
</tr>
<tr>
<td>Grad check/Diploma fee (per major)</td>
<td>25.00</td>
</tr>
<tr>
<td>Grad check/Diploma, late, first filing (per major)</td>
<td>45.00</td>
</tr>
<tr>
<td>Refiling (per major)</td>
<td>20.00</td>
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<tr>
<td>Late refiling (per major)</td>
<td>40.00</td>
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<tr>
<td>Diploma replacement fee</td>
<td>25.00</td>
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<tr>
<td>Enrollment verification (non-refundable)</td>
<td>100.00</td>
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<tr>
<td>Enrollment confirmation deposit (non-refundable)</td>
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<tr>
<td>Emergency loan processing fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Emergency loan late fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Graduation certificates</td>
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<tr>
<td>Commencement fee</td>
<td>35.00</td>
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<tr>
<td>Certificate fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Change of major/Graduate change of program</td>
<td>6.00</td>
</tr>
<tr>
<td>SOAR Mandatory Fee (non refundable)</td>
<td>65.00</td>
</tr>
<tr>
<td>SOAR Student Services Fee (non refundable)</td>
<td>85.00</td>
</tr>
<tr>
<td>Administration Fee</td>
<td>25.00</td>
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<tr>
<td>Lost Key Fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Graduate Orientation Fee</td>
<td>49.00</td>
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<tr>
<td>Parking fees</td>
<td></td>
</tr>
<tr>
<td>Quarter</td>
<td></td>
</tr>
<tr>
<td>Four-wheel vehicle</td>
<td>102.00</td>
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<tr>
<td>Two-wheel vehicle (includes mopeds)</td>
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</tr>
<tr>
<td>Arrowhead/Serrano Village parking</td>
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</tr>
<tr>
<td>University Village parking</td>
<td>102.00</td>
</tr>
<tr>
<td>Check returned for any cause or credit card declined</td>
<td>25-35.00</td>
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<tr>
<td>Lost document replacement</td>
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<td>Transcript of academic record</td>
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<td>Single transcript</td>
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<td>Additional transcripts prepared at the same time</td>
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<td>Expedited transcript request (each)</td>
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<tr>
<td>Faxing unofficial transcript</td>
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<td>Library fees</td>
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<tr>
<td>schedule posted at Library circulation desk</td>
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<tr>
<td>Master’s degree thesis</td>
<td></td>
</tr>
<tr>
<td>contact Office of Graduate Studies</td>
<td></td>
</tr>
</tbody>
</table>

**State Tuition Fee (STF)**

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

**Graduate Business Professional Fee**

The Graduate Business Professional Fee is paid on a per unit basis in addition to the STF and campus fees for the following graduate business programs:

- Master of Business Administration (M.B.A.) programs
- Master of Science (M.S.) in Accountancy programs

**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;
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.

**Disability 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:

1. Possess a valid state DMV Handicap Parking Placard or Plates in their name;
2. 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);
3. Submit the CSUSB "Request for Waiver of Campus Parking Fees," following the proper procedures described on the form. Forms may be obtained at the following offices during their normal office hours:
   - Services to Students with Disabilities (UH-183),
   - Financial Aid Office (UH-150),
   - Parking Services (TO-209).

For additional information on the Disabled Student Quarterly Parking Fee Waiver, visit the Financial Aid Office website, CSUSB Financial Aid website (https://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 and Transportation Services
(909) 537-5912; parking@csusb.edu
CSUSB Parking website (http://parking.csusb.edu)

Parking and Transportation Services is located in University Hall Room 039.

Parking Services maintains two Information Centers located on University Parkway and on Coyote Drive where information regarding parking and special events is available. Parking Services provides services such as battery jumps and vehicle unlocks, as well as provide parking and general campus information to visitors and guests. In addition to enforcing the campus parking regulations, officers patrolling the lots report criminal and suspicious activity directly to University Police Dispatch.

The State of California does not provide funds to construct, operate, or maintain parking facilities on state university campuses. Parking fees are collected to fund parking lot repair, maintenance, and the construction of new parking lots and facilities. All vehicles parked on campus must display a permit and/or decal issued by the university. A permit and/or decal is only valid if properly displayed. Quarterly and annual permits may be purchased online at CSUSB Parking Permit website (http://parking.csusb.edu/ParkingPermit). Daily parking permits are available at the information centers on University Parkway and Coyote Drive or from any permit dispensers located at University Parkway, University Village, Serrano Village Drive, Coyote Drive, Sierra Drive, Lot A, Lot A Annex, Lots G and L, and between Lots E and F. General Parking Permits are valid in all lots except for those with special designation. 30-minute parking spaces are available throughout the campus, and are marked with green curbs and/or signs. Pay by Phone parking is also available in Lot G for visitors. Drivers are cautioned to observe any restrictions posted on curbs or signs throughout the campus, as parking regulations are strictly enforced at all times.

CSUSB provides disabled parking spaces conveniently located throughout the campus. Persons with disabilities who display a special disabled person placard or license plate may park in any of the following parking spaces with a valid CSUSB parking permit: spaces with the International Symbol of Access (wheelchair symbol), blue designated parking spaces authorized for disabled parking, unlimited parking in green (posted time limit) spaces, metered spaces, or any unmarked parking space.

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

Transportation Services
(promoting alternate modes of transportation), which is a branch of Parking Services, is located in University Hall, Room 039, and can be reached at (909) 537-7433 (RIDE). This program is 100% funded by the revenue taken in through parking citations. Transportation Services is dedicated to promoting alternate modes of transportation to faculty, staff and students by providing the following services:

- Quarterly carpool permits
- Carpool ride matching services
- Vanpool services
- Discounted Metrolink passes
- Metrolink schedules
- Omni Trans bus schedules

For more information and a list of online forms and services, please visit the Parking and Transportation Services website.

CSUSB Parking website (http://parking.csusb.edu)

Availability of Institutional and Financial Assistance Information
The following information regarding student financial assistance may be obtained from the Financial Aid Office, University Hall 150, (909) 537-5227.

- 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.
- The estimated cost of attendance for California State University, San Bernardino which includes tuition and fees; estimated amounts for books and supplies, room and board, personal and transportation costs.
- The rights and responsibilities for students receiving financial aid and the criteria for continued eligibility.
- The Satisfactory Academic Progress (SAP) standards that measure academic progress towards a degree.
- The financial aid disbursement policy that is applied to all students receiving financial aid for every term of the academic year.
- Information on the Title IV program requirements for the treatment of Title IV funds when a student withdraws.
- The terms and conditions for students who participate in the Federal Work-Study Program.
- The terms and conditions for loans received under the Federal Direct Loan and Federal Perkins Loan Programs.

Information concerning other available campus services is listed below:

- Office of Financial Aid
- Accounting Services
- Financial Information
- CSUSB Parking website (http://parking.csusb.edu)
- Parking and Transportation Services
- CSUSB Parking website (http://parking.csusb.edu)
- Availability of Institutional and Financial Assistance Information
- The following information regarding student financial assistance may be obtained from the Financial Aid Office, University Hall 150, (909) 537-5227.
- 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.
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- Information on the Title IV program requirements for the treatment of Title IV funds when a student withdraws.
- The terms and conditions for students who participate in the Federal Work-Study Program.
- The terms and conditions for loans received under the Federal Direct Loan and Federal Perkins Loan Programs.
• Refund and withdrawal policy for tuition and fees.
  Office of Student Accounts, University Hall 034, (909) 537-5162.

• University-related problems, complaints or concerns.
  Office of Ombuds Services and Gender Equity, Student Union 103-A, (909) 537-5635.

• Special facilities and services available to students with disabilities.
  Services to Students with Disabilities (SSD), University Hall 183, (909) 537-5238.

• Athletic opportunities, resources and personnel available to student athletes.
  Athletics department, HP-106, (909) 537-5011.

• Teacher preparation programs, including the pass rate on teacher certification examinations.
  College of Education, CE 221, (909) 537-5600.

• Policies, procedures, and facilities to report criminal activity and other campus emergencies. Information is also available regarding annual campus security and fire safety reports.
  University Police 125, (909) 537-7138.

• Prevention of drug and alcohol abuse and rehabilitation programs.
  Student Affairs, University Hall 231, (909) 537-5185.

• Student retention and graduation rates.
  Student Affairs, University Hall 231, (909) 537-5185.

• Grievance procedures for students regarding university policies, practices and procedures.
  Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall 231, (909) 537-5185.

• The Federal Military Selective Service Act requires most males residing in the United States to register with the Selective Service System within thirty days of their eighteenth birthday to receive financial aid, federal grants and loans. Selective Service registration forms are available at any U.S. Post Office. Applicants may request to be registered directly on the FAFSA or online on the Selective Service System website (http://www.sss.gov).

• Career Development Center provides comprehensive career services for the advancement of student learning and career success. Visit the Career Development Center website (http://career.csusb.edu).

• Federal Work-Study provides part-time job opportunities for eligible students to develop job skills and secure academic or career-oriented jobs. Visit the Financial Aid website (http://finaid.csusb.edu) or contact the Student Employment Team at (909) 537-5226.

• The Free Application for Federal Student Aid (FAFSA) must be filed by March 2nd each year to be considered for the Cal Grant Programs. Applications are still accepted throughout the school year to be considered for other types of financial aid as long as funding is available. You may complete the FAFSA online at the FAFSA website (http://fafsa.ed.gov).

Financial Aid Chart

You may contact the Financial Aid Office for questions and assistance with all aid programs. You may need to contact your High School or College Counselor for assistance with local scholarships or Cal Grants.

<table>
<thead>
<tr>
<th>Types of aid</th>
<th>Who can help</th>
<th>Determination of Repayment eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local scholarships</td>
<td>High school or college counselor</td>
<td>GPA, need</td>
</tr>
<tr>
<td>University scholarships</td>
<td>University financial aid officer</td>
<td>GPA or GPA and need</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Types of aid</th>
<th>Who can help</th>
<th>Determination of Repayment eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>University financial aid officer</td>
<td>Need</td>
</tr>
<tr>
<td>Federal Supplemental Educational Opportunity Grant (SEOG)</td>
<td>University financial aid officer</td>
<td>Need</td>
</tr>
<tr>
<td>Federal TEACH Grant</td>
<td>University financial aid officer</td>
<td>Enrollment/major *</td>
</tr>
<tr>
<td>Cal Grant A &amp; B, Fellowships</td>
<td>University financial aid officer, High school or college counselor</td>
<td>GPA, need</td>
</tr>
</tbody>
</table>
Federal Educational Opportunity Program Grant (EOP) | University E.O.P. director or University financial aid officer | Need | No
State University Grant (SUG) | University financial aid officer | Need | No
Graduate Business Grant (GBG) | University financial aid officer | Need | No
Ed Doctorate Grant (Ed Doc) | University financial aid officer | Need | No

**Federal Loans**

<table>
<thead>
<tr>
<th>Types of aid</th>
<th>Who can help</th>
<th>Determination of Repayment eligibility</th>
<th>Repayment requirement</th>
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</thead>
<tbody>
<tr>
<td>Perkins Loan</td>
<td>University financial aid officer</td>
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<tr>
<td>Direct Subsidized Loan</td>
<td>University financial aid officer</td>
<td>Enrollment</td>
<td>Yes</td>
</tr>
<tr>
<td>Direct Unsubsidized Loan</td>
<td>University financial aid officer</td>
<td>Enrollment</td>
<td>Yes</td>
</tr>
<tr>
<td>Direct Parent Loan for Undergraduate Students</td>
<td>University financial aid officer</td>
<td>Enrollment</td>
<td>Yes</td>
</tr>
<tr>
<td>Grad Plus Loan for Graduate Students</td>
<td>University financial aid officer</td>
<td>Enrollment</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Work-study (on and off-campus)**

<table>
<thead>
<tr>
<th>Types of aid</th>
<th>Who can help</th>
<th>Determination of Repayment eligibility</th>
<th>Repayment requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal work-study program</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 financial assistance programs are available through Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies. Please visit the Financial Aid website (http://finaid.csusb.edu) for more information.

### 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 (https://mycoyote.cms.csusb.edu) from January 1 through March 2 each year. 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 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.

**Harris/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. 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 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.

**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 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 (http://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.

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

**Edison Scholars Program - Arabic Studies Scholarship** is provided to upper division students with financial need, a GPA of 2.8 or better majoring in Arabic Studies. Selected recipients must agree to participate in the Edison Scholars program.

**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 Soonja Oh Kim Scholarship** provides an award to a student majoring in the Art Department, has a minimum GPA of 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. Mo Vaziri from the College of Business and Public Administration at (909) 537-5718.

**California State University, San Bernardino Department of Public Administration** selects an annual recipient of the **Caroll J. Bellis Scholarship**. This 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 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, 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 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.

**Michael T. Slaton, Sr. Memorial Scholarship** is awarded to upper division students majoring in Business Marketing (preferably with an emphasis in Economics or Commercial Real Estate), enrolled full-time with an overall GPA of at least a 3.0 in all college coursework. Preference will be given to Stater Bros. employees if all other criteria is met.

**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. 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:

1. Why an education in entrepreneurship is important to them,
2. how they will use the education—what business they hope to start and why,
3. what the biggest risk is that they have taken in the past three years,
4. a description of the recent personal or professional failure and what they learned from it, and
5. 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.

Sports and Entertainment Marketing Scholarship Fund provides scholarships to students in the Sports and Entertainment Marketing concentration with second preference to students in the Marketing concentration. A minimum GPA of 3.0 is preferred.

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.

College of Education - Edison Scholars Fund provides scholarships to upper division students participating in a STEM Education, Green Technology or Neurofeedback lab. Students must have a minimum GPA of 2.8, be enrolled full time and must have demonstrated financial need. Selected recipients must agree to participate in the Edison Scholars program.

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 Pinckney 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 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.

College of Natural Sciences - Edison Scholars Fund provides support for upper division students in the STEM majors (Math, Physics, Chemistry, Computer Science/Information Systems). Students must have a minimum GPA of 2.8, be enrolled full time and must have demonstrated financial need. Selected recipients must agree to participate in the Edison Scholars program.

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.

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 are eligible to apply.

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 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
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.

Helen L. Estremera – Charles R. Lewin Endowed Scholarship provides funds to graduate students enrolled in one of the four masters degree programs in the Department of Psychology. Qualified students must have minimum GPA of 3.0 and demonstrate an involvement in any graduate program offered through the Psychology department. Financial need is considered but not essential.

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.

Jerome Herbert Scholarship is for students enrolled in the College of Social and Behavioral Sciences and is a veteran of the US Army. Recipients should be majoring in criminal justice and have a minimum 2.7 gpa. Financial need is 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 Kirka 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/Counselling 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.

Zapletal Charitable Trust Scholarship contributes funding for scholarships to support veterans and their families.

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 to full-time students. Undergraduate students must have a minimum 2.0 GPA, and graduate students must have a minimum 3.0 GPA.

Ayler 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 full-time 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 under represented ethnic minority, women, or disabled graduate students during an academic year. The goal of the Graduate Equity Fellowship Program is to assist underrepresented 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 Presidents 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 contact the Financial Aid Office at (909) 537-7399. You may also visit the Mountain Communities (http://mtnscholarships.csusb.edu) web site. (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 scholarships to reentry students between the ages of 25 and 50. Scholarship monies are applied towards fees/tuition only. For more information contact 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.
Student Veterans Success Initiative Scholarship provides scholarships for upper division student veterans. Must be a veteran, service member, ROTC cadet or family member. Applicant must have a minimum 3.0 GPA and be enrolled at CSUSB full time.

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

Ernie Ball Inc. Fund provides support for an Ernie Ball, Inc. employee and/or family member enrolled at California State University, San Bernardino main or Palm Desert Campus. Student must be enrolled full time, unless a current Ernie Ball, Inc. employee, and must maintain a minimum 3.0 GPA.

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.

H.N. and Frances Berger Scholarship provides awards to Riverside County students attending California State University, San Bernardino Palm Desert Campus who are studying allied health, including nursing, nutrition, kinesiology, physical therapy and/or education. Scholarship recipients will be required to have a minimum 3.0 GPA and show financial need.

Ingster Family Scholarship awards scholarships to CSUSB Palm Desert Campus students who have a minimum cumulative GPA of 3.0 and are majoring in education or nursing.

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 toward 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. Must have a minimum 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.

Pat and Dr. Ward Fredericks Graduate Fellowship Fund which will provide an award to a student in the California State University, Palm Desert Education Doctorate program. Students must be enrolled and in good standing in the CSUSB Ed.D. program.

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. Listed below are just a few of the different sources to use when searching for off-campus scholarships.

Additional scholarships can also be found on the online Scholarship application by clicking on the “Search Scholarships” link.

Army ROTC 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 two, three and four years are available to qualified students. Scholarships cover tuition or room and board. A monthly stipend is paid during participation in the program. In addition, participants receive a annual 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 jmc@csusb.edu.

Gates Millennium Scholars Program (GMS) 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.

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 or call the program office at (909) 537-5533. Selected students may obtain more information by calling the Army ROTC Program.

Scholarship Experts.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.

The Financial 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 (http://www.nasfaa.org) has consumer scholarship tips.
- The Federal Student Aid (http://studentaid.ed.gov) programs are the largest source of student aid in America, providing over $40 billion a year in grants, loans, and work-study assistance. Students will find help for every stage of the financial aid process, whether in school or out of school.

Other Information Regarding Scholarships

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 provides internship, fellowship and scholarship information.
- FastWEB is one of the largest scholarship search engines on the Internet.
SOAR (Student Orientation, Advising & Registration)

CSUSB Orientation and First Year Experience website (http://sld.csusb.edu/Soar2Success)

All new undergraduate students, including entering freshmen and transfers, must attend SOAR. 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. Dates for these sessions are provided by the Office of Orientation and First Year Experience.

SOAR provides students with key resources and tools to help ease the transition to CSUSB. Through workshops, discussions, guest speakers and special events, this experience will prepare students for life as a Coyote.

Advising

Students must take responsibility for the decisions which affect their academic progress. Faculty, staff and peer advisors 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 use CSUSB Academic Advising (http://advising.csusb.edu) or call the appropriate department office as listed in the Class Schedule. 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 17 quarter units per term (seniors may carry up to 19.5).

Unit Overloads

A student may carry more than 17 units (19.5 for senior) 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 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 - ENG 103A - ENG 104A, ENG 102B - ENG 103B - ENG 104B, ENG 105A - ENG 106A, ENG 105B - ENG 106B or ENG 107). They must remain enrolled in their chosen option until their General Education requirement has been completed (ENG 104A, ENG 104B, ENG 106A, ENG 106B, or ENG 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, MATH 115, MATH 120, MATH 192, or MATH 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, MATH 80 or MATH 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.

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. 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 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 Graduate Degree and Program Requirements (p. 60).

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.

Undergraduate students wishing to complete courses at another institution must submit a Concurrent Enrollment contract (http://re.csusb.edu/misc/documents/ConcurrentEnrollmentOct10.pdf) 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.

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 (http://rre.csusb.edu).

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 host 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) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB.

UCR/CSUSB Cross Registration Program

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

1. A limited number of students may participate.
2. A limit of one course per student per quarter.
3. The student is matriculated and currently enrolled in a degree program.
4. Students attending CSUSB on I-20 visas may participate, 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.
5. Student must pay sufficient (full) tuition fees at the Home Campus. No additional registration fees will be required at the Host Campus.
6. The desired course is not offered at the Home Campus.
7. Student must be in good academic standing.
8. Student must observe all academic deadlines and regulations of the Host Campus.
9. Enrollment is subject to space availability and consent of the instructor.
10. Student must meet course prerequisites of the Host Campus.
11. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the "transfer" work on the student’s transcript, with a footnote indicating that the course was taken through the exchange program.
12. Residence credit will be granted for courses taken by CSUSB students under this arrangement.
13. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Class Schedule

An official academic term (http://academicscheduling.csusb.edu) 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 at the Academic Scheduling (http://academicscheduling.csusb.edu) web site. Students are responsible for being aware of information contained in the academic term (http://academicscheduling.csusb.edu) 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 academic term (http://academicscheduling.csusb.edu) 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 academic term (http://academicscheduling.csusb.edu) Class Schedule for specific dates) students may add classes by following the Registration Instructions detailed in the academic term (http://academicscheduling.csusb.edu) 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 class.

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 CSUSB Undergraduate Advising (http://www.ugs.csusb.edu/advising) website. For credential, postbaccalaureate, 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 in the Academic Calendar (p. 26) and in the academic term (http://academicscheduling.csusb.edu) 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 academic term (http://academicscheduling.csusb.edu) Class Schedule for specific dates) students may drop classes by following the Registration Instructions detailed in the academic term (http://academicscheduling.csusb.edu) Class Schedule. Students may drop a class during the first three weeks of the Fall, Winter, or Spring quarters (i.e. from the first day of instruction through Census Date), and the course will not appear on their permanent records; however, a refund will not be granted if the drop is beyond the refund deadline date. See the academic term (http://academicscheduling.csusb.edu) Class Schedule for specific dates for each quarter, including Summer.

Administrative Drop

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

Lack of attendance

Students who fail to attend two consecutive class meetings during the first three weeks of the quarter without contacting the faculty member or making special arrangements may be dropped. 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 academic term (http://academicscheduling.csusb.edu) Class Schedule. Questions regarding refunds should be addressed to the Student Accounts Office at 909-537-5162.

Withdrawal procedures outlined in the Class Schedule for specific dates for each quarter, including Summer.

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 an 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 withdraw 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 academic term (http://academicscheduling.csusb.edu)/Class Schedule for specific dates) students may withdraw from the university by following the registration instructions detailed in the academic term (http://academicscheduling.csusb.edu)/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 academic term (http://academicscheduling.csusb.edu)/Class Schedule for specific dates for each quarter, including Summer.

**Term Withdrawal after Census Date**

Term 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 academic term (http://academicscheduling.csusb.edu)/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 unit limit for each quarter, including Summer.

**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.

**Student Academic Grade Grievance Procedures**

Advising and Academic Services, UH-380
CSUSB Undergraduate Advising and Academic Services website (http://www.ugs.csusb.edu/advising/grievances.html)

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 Student Affairs website (http://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 hour</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></td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
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</tr>
<tr>
<td>D-</td>
<td></td>
<td>.7</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>.0</td>
</tr>
<tr>
<td>WU</td>
<td>Withdrawal</td>
<td>.0</td>
</tr>
<tr>
<td>U</td>
<td>Unauthorized</td>
<td>.0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>.0</td>
</tr>
<tr>
<td>ICA</td>
<td>Incomplete Charged</td>
<td>.0</td>
</tr>
<tr>
<td>RP</td>
<td>Report in Progress</td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>Satisfactory</td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td></td>
</tr>
</tbody>
</table>
Grade point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this university are used to compute the resident grade point average. Grades from courses numbered 1-99 are not computed in this average.

The following administrative grades carry no grade points and are, therefore, not used to determine a student’s grade point average. However, it should be pointed out that the Incomplete will be changed to an IC (incomplete charged) and calculated as an F if not removed within one calendar year from the date it was assigned unless the instructor assigned an earlier completion date on the Incomplete form.

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

### 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 "F", 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 grad 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 averages.
average. For withdrawal limits, see the class schedule or CSUSB Undergraduate Advising website (http://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, except 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 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

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 (p. 60).

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.

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.

1. 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.

c. Grade forgiveness shall not be applicable to courses for which the original grade was the result of a finding of academic dishonesty.

Course Repeats with Grades Averaged

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

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

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

8. 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.

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

10. 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 under Graduate Degree and Program Requirements (p. 66).

Academic Renewal

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

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

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

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

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 with 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 (http://re.csusb.edu/misc/documents/ChangeofMajorMay2011.pdf) 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 a referral to an academic department or, in some cases, to the Career Development Center. If a major is not declared by the completion of 20 quarter units at CSUSB, a transfer student held to this policy will not be allowed to register without the approval of the Director of Advising and Academic Services

Election of Graduation Requirements
A student remaining in continuous attendance in regular sessions and continuing in the same major in this university, in any of the California community colleges, or in any combination of California community colleges and campuses of the California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this university either at the time of entering the program or at the time of graduation from this university, except that substitutions for discontinued courses may be authorized or required by the proper university authorities. (See the section on Leave of Absence.)
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) ([http://rre.csusb.edu/misc/documents/gradcheckformOct2013.pdf](http://rre.csusb.edu/misc/documents/gradcheckformOct2013.pdf)) 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.

<table>
<thead>
<tr>
<th>Graduation Term</th>
<th>Filing Date (first business day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Quarter</td>
<td>January</td>
</tr>
<tr>
<td>Fall Quarter</td>
<td>February</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>May</td>
</tr>
<tr>
<td>Spring Quarter</td>
<td>November</td>
</tr>
</tbody>
</table>

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 Requirements

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**

Special Events and Guest Services- Commencement Office  
(909) 537-7365  
Participation in commencement activities is voluntary.

For dates and deadlines please visit commencement.csusb.edu

**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 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 Graduate Studies website (http://gradstudies.csusb.edu).

**Credential Students 2014/2015**

Students completing a Multiple Subject, Single Subject, Education Specialist Basic credential, Pupil Personnel Services or Designated Subjects credential during the 2014-15 academic year 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 2015. Specific information can be obtained from the College of Education, Student Services Office, CE-102, (909) 537-5609. The Credential Recognition Ceremony on the Palm Desert Campus will be held in May 2015 at PCD. Specific information can be obtained from the Palm Desert Campus College of Education Office at (760) 341-2883.

**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 the fee schedule in the Class Schedule or the Fees page (p. 87) of this catalog.) 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:

<table>
<thead>
<tr>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 weighted units</td>
</tr>
<tr>
<td>3/4 time</td>
<td>9-11 units</td>
</tr>
<tr>
<td>1/2 time</td>
<td>6-8.5 units</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 quarter units</td>
</tr>
<tr>
<td>3/4</td>
<td>9-11.5 quarter units</td>
</tr>
<tr>
<td>1/2 time</td>
<td>6-8.5 quarter units</td>
</tr>
</tbody>
</table>

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.

**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 a U.S. Postal mailbox. Some of these consequences include missing payment deadlines, missing registration deadlines, missing immunization deadlines, 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.

**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).

**Changes in Rules and Policies**

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertains to students, the institution and the California State University. More current or complete information may be obtained from the appropriate department, college or administrative office.

Nothing in this catalog shall be construed, operate as, or have the effect of an abridgement or a limitation of any rights, powers or privileges of the Board of Trustees of the California State University, the chancellor of the California State University or the president of the campus. The trustees, the chancellor and the president are authorized by law to adopt, amend or repeal rules and policies which apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or the California State University. The relationship of the student to the institution is one governed by statute, rules and policy adopted by the Legislature, the trustees, the chancellor, the president and their duly authorized designees.

**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**

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. The following are the grounds upon which student discipline can be based:

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.

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 refund. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Nondiscrimination Policy

Race, Color, Ethnicity, National Origin, Age, Genetic Information, Religion and Veteran Status

The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, genetic information, religion or veteran status in its programs and activities, including admission and access. Federal and state laws, including Title VII of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. César Portillo, Associate Vice President of Human Resources, 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 may be presented to this person at Human Resources, Sierra Hall, Room 110, (909) 537-5138.

Disability

The California State University does not discriminate on the basis of disability in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. Beth Jaworski, Director of Services to Students with Disabilities, 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/Gender Expression/Sexual Orientation

The California State University does not discriminate on the basis of sex, gender, gender identity, gender expression, 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, Director of Ombuds Services and Gender Equity and Title IX Coordinator 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 may be presented to this person at Ombuds Services and Gender Equity, Santos Manuel Student Union, Room 103-A, (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 (both on and off campus).

Title IX of the Education Amendments of 1972 protects all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and violence.

Sexual Discrimination/Harassment/Violence and Retaliation

It is the policy of California State University to maintain a working and learning environment free from sexual discrimination, harassment, violence and retaliation.

Sexual discrimination means an adverse act of sexual discrimination (including sexual harassment and sexual violence) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.

Sexual harassment is unwelcome conduct of a sexual nature that includes, but is not limited to, sexual violence, sexual advances, requests for sexual favors, indecent exposure and other verbal, nonverbal or physical unwelcome conduct of a sexual nature, where such conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the individual, and is in fact considered by the individual, as limiting the individual’s ability to participate in or benefit from the services, activities or opportunities offered by the university. Sexual harassment also includes gender-based harassment, which may include acts of verbal, non-verbal
or physical aggression, intimidation or hostility based on sex or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Sexual violence means physical sexual acts (such as unwelcome sexual touching, sexual assault, sexual battery and rape) perpetrated against an individual without consent or against an individual who is incapable of giving consent due to that individual’s use of drugs or alcohol, or disability.

Retaliation means an adverse action is taken against an individual due to them reporting an incident or participating in an investigation. This is illegal, according to all of the laws enforced by U.S. Equal Employment Opportunity Commission.

See further information in CSUSB’s sexual violence prevention and education statement, which includes facts and myths about sexual violence in the CSUSB policies Title IX Notice of Non-Discrimination (http://policies.csusb.edu/Title_IX_Notice_). http://policies.csusb.edu/Title_X_Notice_of_Non-Discrimination.pdf.

Whom to Contact if You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Your campus Title IX Coordinator is available to explain and discuss your right to file a criminal complaint (for example, in cases of sexual assault and violence); the university’s complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.

Campus Title IX Coordinator
• Tera Bisbee
  California State University, San Bernardino
  Ombuds Services and Gender Equity
  Santos Manuel Student Union, Room 103-A
  5500 University Parkway
  San Bernardino, CA 92407
  tbisbee@csusb.edu
  http://ombuds.csusb.edu
  (909) 537-5635

University Police
• University Police Department
  California State University, San Bernardino
  5500 University Parkway
  San Bernardino, CA 92407
  policerecords@csusb.edu (additional information & services)
  9-1-1 Emergencies; Non-emergencies (909) 537-5165 (TDD available) or (909) 537-7777

U.S. Department of Education, Office for Civil Rights
• (800) 421-3481 or ocr@ed.gov
If you wish to fill out a complaint form online with the OCR, you may do so at: Office of Civil Rights website. (http://www2.ed.gov/about/offices/list/ocr/complaintintro.html)

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of sex discrimination complaints, including sexual harassment and violence. CSU Executive Order 1074 (Cal State Executive Order website (http://www.calstate.edu/ eo/EO-1074.pdf)) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a Third Party.

Except in the case of a privilege recognized under California law (examples of which include Evidence Code §§1014 (psychotherapist-patient); 1035.8 (sexual assault counselor-victim); and 1037.5 (domestic violence counselor-victim), any member of the University community who knows of or has reason to know of sexual discrimination allegations shall promptly inform the campus Title IX Coordinator.

Regardless of whether an alleged victim of sexual discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or violence, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any sex discrimination/harassment, prevent its recurrence, and remedy its effects.

Safety of the Campus Community is Primary

The university’s primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for sexual discrimination, harassment or violence; therefore, victims should not be deterred from reporting incidents of sexual violence out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual violence shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding Campus, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual assault may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, employees and students may face discipline at the university. Employees may face sanctions up to and including dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are charged by the university with sexual discrimination, harassment or violence will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1073 (http://www.calstate.edu/eo/EO-1073.pdf) at http://www.calstate.edu/eo/EO-1073.pdf or any successor executive order) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include: immediate interim suspension from the university; a required move from university-owned or affiliated housing; adjustments
to course schedule; and/or prohibition from contact with parties involved in
the alleged incident.

Sexual Violence Prevention and
Education Statement (Including Facts and
Myths)

What You Can Do To Help Stop Sexual
Violence

Sexual contact requires mutual consent. An incapacitated person (for
example, a person who is intoxicated by drugs or alcohol) is incapable of
giving consent.

- No one deserves to be sexually assaulted, stalked or victimized in any
  way.
- Don’t engage in any behavior that may be considered dating/domestic
  violence, sexual assault, stalking or any other form of violence.
- Never use force, coercion, threats, alcohol or other drugs to engage in
  sexual activity.
- Take responsibility for your actions.
- Avoid alcohol and other drugs.
- Remember “no” means “No!” and “stop” means “Stop!”
- Report incidents of violence (including coercion) to law enforcement
  and campus authorities.
- Discuss dating/domestic violence, sexual assault and stalking with
  friends—speak out against violence and clear up misconceptions.
- Don’t mistake submission or silence for consent.

What You Can Do To Help Minimize Your Risk
of Becoming a Victim

- Be aware. Does your partner: Threaten to hurt you or your children?
  Say it’s your fault if he or she hits you and then promises it won’t
  happen again (but it does)? Put you down in public? Force you to
  have sex when you don’t want to? Follow you? Send you unwanted
  messages and gifts?
- Be assertive. Speak up.
- Stay sober and watch out for dates and/or anyone who tries to get you
  drunk or high.
- Clearly communicate limits to partners, friends and acquaintances.
- Never leave a party with someone you don’t know well and trust.
- Trust your feelings; if it feels wrong, it probably is.
- Learn all you can and talk with your friends. Help them stay safe.
- Report incidents of violence to law enforcement and campus
  authorities.

What You Can Do If You Are a Victim, in
General

- Go to a safe place as soon as possible.
- Preserve evidence.
- Report the incident to University Police or local law enforcement.
- Report the incident to your campus Title IX Coordinator.
- Call a domestic violence, sexual assault or stalking hotline.
- Call a friend or family member for help.
- Know that you are not at fault. You did not cause the abuse to occur
  and you are not responsible for someone else’s violent behavior.

Common Myths and Facts about the Causes
of Sexual Violence

**Myth:** Victims provoke sexual assaults when they dress provocatively or
act in a promiscuous manner.

**Fact:** Rape and sexual assault are crimes of violence and control that
stem from a person’s determination to exercise power over another.
Neither provocative dress nor promiscuous behaviors are invitations for
unwanted sexual activity. Forcing someone to engage in non-consensual
sexual activity is sexual assault, regardless of the way that person
dresses or acts.

**Myth:** If a person goes to someone’s room or house or goes to a bar, s/he
assumes the risk of sexual assault. If something happens later, s/he can’t
claim that s/he was raped or sexually assaulted because s/he should have
known not to go to those places.

**Fact:** This “assumption of risk” wrongfully places the responsibility of
the offender’s action with the victim. Even if a person went voluntarily
to someone’s home or room and consented to engage in some sexual
activity, it does not serve as blanket consent for all sexual activity. When
in doubt if the person is comfortable with an elevated level of sexual
activity, stop and ask. When someone says “no” or “stop,” that means
“STOP!” Sexual activity forced upon another without valid consent is
sexual assault.

**Myth:** It is not sexual assault if it happens after drinking or taking drugs.

**Fact:** Being under the influence of alcohol or drugs is not an invitation
for sexual activity. A person under the influence does not cause others
to assault her/him; others choose to take advantage of the situation
and sexually assault her/him because s/he is in a vulnerable position. A
person who is incapacitated due to the influence of alcohol or drugs is not
able to consent to sexual activity.

**Myth:** Most sexual assaults are committed by strangers. It’s not rape if the
people involved know each other.

**Fact:** Most sexual assaults and rape are committed by someone the
victim knows. A study of sexual victimization of college women showed
that about 90% of victims knew the person who sexually victimized them.
Most often, a boyfriend, ex-boyfriend, classmate, friend, acquaintance
or co-worker sexually victimized the person. It is important to remember
that sexual assault can occur in both heterosexual and same-gender
relationships.

**Myth:** Rape can be avoided if women avoid dark alleys or other
“dangerous” places where strangers might be hiding or lurking.

**Fact:** Rape and sexual assault can occur at any time, in many places, to
anyone.

**Myth:** A person who has really been sexually assaulted will be hysterical.

**Fact:** Victims of sexual violence exhibit a spectrum of responses to the
assault which can include: calm, hysteria, withdrawal, anxiety, anger,
apathy, denial and shock. Being sexually assaulted is a very traumatic
experience. Reaction to the assault and the length of time needed to
process through the experience vary with each person. There is no “right
way” to react to being sexually assaulted. Assumptions about the way a
victim “should act” may be detrimental to the victim because each victim
copes in different ways.

**Myth:** All sexual assault victims will report the crime immediately to the
police. If they do not report it or delay in reporting it, then they must have
changed their minds after it happened, wanted revenge or didn’t want to
look like they were sexually active.
Fact: There are many reasons why a sexual assault victim may not report the assault to the police or campus officials. It is not easy to talk about being sexually assaulted and can feel very shameful. The experience of retelling what happened may cause the person to relive the trauma. Another reason for delaying a report or not making a report is the fear of retaliation by the offender. There is also the fear of being blamed, not being believed and being required to go through judicial proceedings. Just because a person does not report the sexual assault does not mean it did not happen.

Myth: Only young, pretty women are assaulted.
Fact: The belief that only young, pretty women are sexually assaulted stems from the myth that sexual assault is based on sex and physical attraction. Sexual assault is a crime of power and control. Offenders often choose people whom they perceive as most vulnerable to attack or over whom they believe they can assert power. Men and boys are also sexually assaulted, as well as persons with disabilities. Assumptions about the “typical” victim might lead others not to report the assault because they do not fit the stereotypical victim.

Myth: It’s only rape if the victim puts up a fight and resists.
Fact: Many states do not require the victim to resist in order to charge the offender with rape or sexual assault. Those who do not resist may feel if they do so, they will anger their attacker, resulting in more severe injury. Many assault experts say that victims should trust their instincts and intuition and do what they believe will most likely keep them alive. Not fighting or resisting an attack does not equal consent.

Myth: Someone can only be sexually assaulted if a weapon was involved.
Fact: In many cases of sexual assault, a weapon is not involved. The offender often uses physical strength, physical violence, intimidation, threats or a combination of these tactics to overpower the victim. Although the presence of a weapon while committing the assault may result in a higher penalty or criminal charge, the absence of a weapon does not mean that the offender cannot be held criminally responsible for a sexual assault.

What is Dating Violence or Domestic Violence?

Dating/Domestic violence is a pattern of abusive behaviors used to exert power and control over a partner. Dating/Domestic violence can be physical, sexual, emotional, economic or psychological actions or threats of actions that influence another person. This includes any behaviors that intimidate, manipulate, humiliate, isolate, frighten, terrorize, coerce, threaten, blame, hurt, injure or wound someone. Dating/Domestic violence can happen to anyone regardless of race, sexual orientation, social economics, education, age, religion, etc. Dating/Domestic violence can also affect family, friends, co-workers and members in the community, in addition to the victim and abuser. Domestic violence can occur regardless of the relationship status, including individuals who are dating, cohabitating or married.

Types of Dating/Domestic Violence That Includes Sexual Misconduct

There usually is a pattern or a repeated cycle of dating violence, starting with the first instance of abuse.

General Pattern of Behavior

- Tension Building: Relationship begins to get strained or tense between partners.
- Explosion: Outburst that includes verbal, emotional or physical abuse.
- Honeymoon: Apologies where the abuser tries to re-connect with his/her partner by shifting the blame onto someone or something else.

Definitions of What Dating/Domestic Violence Looks Like

Any actions used for the intent of gaining power and control over a person:

- Physical Abuse: any intentional use of physical force with the intent to cause injury (i.e., grabbing in a way to inflict pain, hitting, shoving, strangling, kicking).
- Emotional Abuse: non-physical behaviors such as threats, insults, constant monitoring, humiliation, intimidation, isolation, silent treatment or stalking.
- Sexual Abuse: any action that impacts the partner’s ability to control their sexual activity or the circumstance which sexual activity occurs, including rape, coercion or restricting access to birth control.

Warnings or Signs of Potential Dating/Domestic Violence

Ask yourself if your partner engages in one or any of the following activities:

- Checks my cell phone or email without my permission.
- Monitors where I’m going, who I’m going with, or what I’m doing.
- Repeatedly says or does things to make me feel inadequate or inferior to him/her.
- Extreme jealousy or insecurity.
- Isolates me from my friends and family.
- Explosive temper.
- Mood swings.
- Assumes financial control over my access to financial resources.
- Tells me what to do.
- Possessiveness.
- Physically hurts me in any way.

Sexual Violence—Risk Reduction Tips

“What can I do in order to help reduce my risk of being a victim of sexual violence?”

Risk reduction tips can often take a victim-blaming tone, even unintentionally. With no intention to victim-blame and with recognition that only those who commit sexual violence are responsible for those actions, these suggestions may nevertheless help you to reduce your risk of experiencing a non-consensual sexual act:

- If you have limits, make them known as early as possible.
- Tell a sexual aggressor “NO” clearly and firmly.
- Try to remove yourself from the physical presence of a sexual aggressor.
- Find someone nearby and ask for help.
- Take affirmative responsibility for your alcohol intake/drug use and acknowledge that alcohol/drugs lower your sexual inhibitions and may make you vulnerable to someone who views a drunk or high person as a sexual opportunity.
- Take care of your friends and ask that they take care of you. A real friend will challenge you if you are about to make a mistake. Respect them when they do.
“What can I do in order to help reduce my risk of being an initiator of sexual violence?”

If you find yourself in the position of being the initiator of sexual behavior, you owe sexual respect to your potential partner. These suggestions may help you to reduce your risk of being accused of sexual misconduct:

- Clearly communicate your intentions to your sexual partner and give them a chance to clearly relate their intentions to you.
- Understand and respect personal boundaries.
- DON’T MAKE ASSUMPTIONS about consent, about someone’s sexual availability, about whether they are attracted to you, about how far you can go or about whether they are physically and/or mentally able to consent. If there are any questions or ambiguity, then you DO NOT have consent.
- Mixed messages from your partner are a clear indication that you should stop, defuse any sexual tension and communicate better. You may be misreading them. They may not have figured out how far they want to go with you yet. You must respect the timeline for sexual behaviors with which they are comfortable.
- Don’t take advantage of someone’s drunkenness or drugged state, even if they did it to themselves. Incapacitation means a person is unable to give valid consent.
- Realize that your potential partner could be intimidated by you or fearful. You may have a power advantage simply because of your gender or size. Don’t abuse that power.
- Understand that consent to some form of sexual behavior does not automatically imply consent to any other forms of sexual behavior.
- Silence and passivity cannot be interpreted as an indication of consent. Read your potential partner carefully, paying attention to verbal and non-verbal communication and body language.

**Rape and Sexual Assault**

Crimes of a sexual nature may be reported to campus or local law enforcement in addition to being reported administratively on campus. Both men and women can be victims of rape or sexual assault. For purposes of this notice, rape and sexual assault are defined below:

- Rape is non-consensual intercourse that involves the threat of force, violence, immediate and unlawful bodily injury or threats of future retaliation and duress.
- Sexual assault is broader in definition than rape: any non-consensual sexual act may be considered sexual assault. Examples of sexual assault include unwanted oral, anal or vaginal intercourse, penetration of the anus or vagina with a foreign object or unwanted touching on an intimate area of a person’s body. Sexual assault can include unwanted kissing or bodily contact that is sexual in nature.

In order for a sexual act to be considered rape or sexual assault, the act must be non-consensual. What is consent?

- Consent for sexual contact means that an individual is a willing participant in the sexual act. Individuals are unable to give consent if incapacitated by the influence of drugs or alcohol or they suffer from a physical or mental disorder that makes them incapable of giving consent. Likewise, a minor is unable to give legal consent for sexual intercourse.

**Stalking**

Stalking is a pattern of behavior that makes you feel afraid, nervous, harassed or in danger. It is when someone repeatedly contacts you, follows you, sends you things, talks to you when you don’t want them to or threatens you. Stalking behaviors can include:

- Damaging your property.
- Knowing your schedule.
- Showing up at places you go.
- Sending mail, e-mail, texts and pictures.
- Creating a website about you.
- Sending gifts.
- Stealing things that belong to you.
- Calling you repeatedly.
- Any other actions that the stalker takes to contact, harass, track or frighten you.

You can be stalked by someone you know casually, a current boyfriend or girlfriend, someone you dated in the past or a stranger. Getting notes and gifts at your home, on your car or other places might seem sweet and harmless to other people. But if you don’t want the gifts, phone calls, messages, letters or e-mails, it doesn’t feel sweet or harmless. It can be scary and frustrating.

Sometimes people stalk their boyfriends or girlfriends while they’re dating. They check up on them, text or call them all the time, expect instant responses, follow them, use GPS to secretly monitor them and generally keep track of them, even when they haven’t made plans to be together. These stalking behaviors can be part of an abusive relationship. If this is happening to you or someone you know, you should talk to a trusted person.

Stalking is a crime and can be dangerous. California Penal Code section 646.9, in part, states, “Any person who willfully, maliciously and repeatedly follows or willfully and maliciously harasses another person and who makes a credible threat with the intent to place that person in reasonable fear for his or her safety, or the safety of his or her immediate family is guilty of the crime of stalking.....”

**How You Can Help Yourself**

Think about ways you can be safer. This means thinking about what to do, where to go for help and who to call ahead of time:

- Where can you go for help?
- Who can you call?
- Who will help you?
- How will you escape a violent situation?

**Other Things You Can Do**

- Let friends or family members know when you are afraid or need help.
- Be aware of your surroundings. Knowing where you are and who is around you may help you to find a way to get out of a bad situation.
- Avoid isolated areas.
- Avoid putting headphones in both ears so you can be more aware of your surroundings.
- Trust your instincts. If a situation or location feels unsafe or uncomfortable, remove yourself.
- Vary your routine, your driving routes and where you park your car.
• When you go out, tell someone where you are going and when you’ll be back.
• **In an emergency, call 9-1-1** or your local police department.
• Memorize the phone numbers of people to contact or places to go in an emergency.
• Don’t load yourself down with packages or bags restricting your movement.
• Keep your cell phone handy; check to see that you have reception and that your cell phone is charged.
• Have money for a cab or other transportation.
• Save notes, letters or other items that the stalker sends to you. Keep a record of all contact that the stalker has with you; these items will be very useful in an investigation.

**How You Can Help Someone Else**

If you know someone who is being stalked, you can:

• Encourage your friend to seek help.
• Be a good listener.
• Offer your support.
• Ask how you can help.
• Educate yourself about stalking.
• Avoid any confrontations with the stalker; this could be dangerous for you and your friend.

**Additional Resources**

(Note: All links can be accessed directly from: http://ombuds.csusb.edu)

• CSUSB’s sexual violence prevention and education statement
• CSUSB Policies website (http://policies.csusb.edu/Title_IX_Notice_of_Non-Discrimination.pdf)
• U.S. Department of Education, Regional Office
  Office for Civil Rights
  50 Beale Street, Suite 7200
  San Francisco, CA 94105
  (415) 486-5555
  TDD (877) 521-2172
• U.S. Department of Education, National Office
  Office for Civil Rights
  (800) 872-5327
• Know Your Rights about Title IX
  Title IX website (http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html)
• California Coalition Against Sexual Assault
  1215 K Street, Suite 1850
  Sacramento, CA 95814
  (916) 446-2520

California Coalition Against Sexual Assault website (http://calcasa.org)

• Domestic and Family Violence (http://ovc.ncjrs.gov/topic.aspx?topicid=27)
  Office of Justice Programs, United States Department of Justice
• National Institute of Justice: Intimate Partner Violence (http://www.nij.gov/topics/crime/intimate-partner-violence/Pages/welcome.aspx)
  Office of Justice Programs, United States Department of Justice
• National Domestic Violence Hotline (http://www.nij.gov/topics/crime/intimate-partner-violence/Pages/welcome.aspx)
  1-800-799-SAFE (7233)
• Office of Violence against Women, (http://www.ovw.usdoj.gov) United States Department of Justice
• Centers for Disease Control and Prevention: Intimate Partner Violence (http://www.cdc.gov/ViolencePrevention/intimatepartnerviolence)
• Defending Childhood, (http://www.justice.gov/defendingchildhood) United States Department of Justice
• San Bernardino Sexual Assault Services
  24-Hour Crisis Hotline (800) 656-4673 (toll-free) or (909) 885-8884 (Main office, San Bernardino)
  Satellite offices: Redlands (909-335-8777); Yucaipa (909-790-9374); Victorville (760-952-0041); Coachella Valley/Indio (760-568-9071); Morongo Basin/Yucca Valley (760-369-3353)
  San Bernardino Sexual Assault Services website (http://www.sbsas.org)

**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 Student Affairs website (http://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.
Extended Learning

College of Extended Learning

Sierra Hall, Room 134
(909) 537-5975 College of Extended Learning website (http://cel.csusb.edu)

The College of Extended Learning (CEL) at California State University, San Bernardino offers a variety of programs and serves as the main outreach arm of the University to extend its educational services to local communities and audiences across the nation and internationally.

California State University, San Bernardino considers its Extended Learning credit and noncredit programs as an integral part of the University. These programs are an extension of the University’s educational services and are in concert with its overall mission and purpose. Academic programs and courses offered through CEL meet the standards of quality which the University sets for all its programs and courses in terms of resources, faculty, level of instruction, evaluation and support services.

The College of Extended Learning serves a wide variety of audiences that range from school children, young adults, working professionals and mature adults, by offering programs that meet their educational needs for academic preparation, professional growth, career advancement or personal enrichment. All programs offered through the College of Extended Learning are offered on a self-supporting basis without any state funds.

Academic Degree Programs and Courses

In partnership with other colleges within the University, the College of Extended Learning offers degree and certificate programs at off-campus locations nationally and internationally, through the use of distinct technologies such as online delivery. These programs, known as "Special Sessions," are fully self-supporting. Programs may be offered at off-campus locations nationally and internationally, as well as online. Special Sessions degree and/or certificate programs are identical in quality to those offered on campus. 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.

Open University

Most courses listed in the University catalog are open to non-matriculated students through the College of Extended Learning Open University program. 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 the appropriate department).

Open University is designed for those who:

- Have stopped attending CSUSB and wish to re-enter;
- Want to improve their GPA in order to reenter an academic program;
- Wish to take selected CSUSB courses that will transfer to another university and or;
- Want to take a course for the enjoyment of learning.

Students who desire to enroll in Open University classes are required to obtain a registration form from the College of Extended Learning and approval of the instructor. Graduate-level and education credential 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.

Extension Programs

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
  - Computer Technician (online)
  - Executive Assistant (online)

- Education:
  - Correctional and Alternative Education
  - CPR for Professional Clear Credential Candidates
  - Early Orientation for Designated Subjects
  - Learning and Teaching Strategies (online)
  - Reading Fundamentals
  - SAT Test Preparation
  - School Business Management
  - Spanish Interpretation and Translation
  - U.S. Constitution Challenge Examination

- Health Care:
  - Basic Audiometry and Hearing Problems
  - Dietetics
  - Health Information Technology (online)
  - Medical Administrative Assistant (online)
  - Medical Billing (online)
  - Medical Transcription/Editor (online)
  - Pharmacy Technician (online)
  - Professional Medial Coding and Billing (online)

- Online High School Courses:
  - Advanced Placement
  - English
  - Foreign Language
• Math
• Social Science

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.

**In-service 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.

**Online Career Training Programs**

The College of Extended Learning offers online continuing education programs and courses designed to provide the workforce skills necessary to acquire professional caliber 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 hundreds of individual online personal enrichment, skill building and training courses in nearly every subject imaginable. For more information, visit Online Career Training Program website. (http://cel.csusb.edu/online)

**Osher Lifelong Learning Institute**

The Osher Lifelong Learning Institute is a partnership between the College of Extended Learning and CSUSB’s Palm Desert Campus and is 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) 341-2882 ext. 14428.

**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 English Language Program (ELP) and Homestay.

**The English Language Program (ELP)**

ELP is designed for international students, visitors and professionals seeking:

- 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
- A pathway degree program at CSUSB with TOEFL waiver

The English Language Program offers a 10-week program each quarter and a summer camp for youth, ages 16-18. Many ELP 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 15 or more), focusing on second language for special purposes;
- International extension and continuing education programs including travel/study abroad programs, domestic workplace English programs, international extension workshops, contract training programs focused on international professional practices and culture.

**Homestay Program**

Homestay is a housing option for ELP or ITEP 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. Homestay program provides a room (single or double), three meals a day and transportation to and from school.

For information on ELP, ITEP, 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.
Faculty

Outstanding Professor 2014
Dr. Larry Mink, Professor of Chemistry and Biochemistry

Current Faculty
Alham Abuatiq, 2014
Assistant Professor of Nursing
B.S.N. 2004, M.S.N. 2006 Jordan University, Jordan
PhD 2013, University of San Diego

Nancy Acevedo-Gil, 2014
Assistant Professor of Education
B.A. 2006, University of California, Berkeley
M.A. 2009, San Jose State University

Helena Addae, 2014
Associate Professor of Management
B.A. 1980, Ph.D. 2003, Concordia University
M.B.A. 1983, McGill University, Montreal

Susan L. Addington, 1988
Professor of Mathematics
B.S. 1976, Marlboro College
M.A. 1978, Ph.D. 1981, State University of New York at Stony Brook

Mark D. Agars, 1999
Professor of Psychology
B.A. 1992, Sienna College
M.S. 1996, Ph.D. 1999, Pennsylvania State University

Joyce C. Ahlgren, 2003
Lecturer in Mathematics
B.A. 1972, University California at Santa Barbara
M.A. 2003, California State University, San Bernardino

Jeremy Aikin, 2014
Assistant Professor of Mathematics
B.S. 2013, University of California, Riverside
M.S. 2005, Ph.D. 2009, Louisiana State University

Lasisi Ajayi, 2014
Associate Professor of Education
B.A. 1983, M.S. 1989, Obafemi Awolowo University, IFE
Ph.D. 1996, Literacy-University of Ibadan

Michelle Alencar, 2013
Assistant Professor of Kinesiology
Ph.D., 2013, University of New Mexico - Main Campus

Ece Algan, 2006
Associate Professor of Communication Studies
B.S. 1994, Istanbul Teknik University
M.A. 1996, Marmara University-Istanbul
Ph.D. 2003, Ohio University

Jennifer L. Andersen, 1996
Professor of English
B.A. 1988, University of California, Los Angeles
M.A. 1991, Ph.D. 1996, Yale University

Jonathan Anderson, 2011
Professor of Public Administration
Chair
B.A. 1974, Colorado State University
M.P.A. 1978, American University, Washington
Ph.D. 1997, Indiana University, Bloomington

Laura Ashcroft, 2003
Lecturer in Education
B.A. 1986, M.A. 1987, Sonoma State University
Ph.D. 2002, University of San Francisco

Richard Ashcroft, 1989
Professor of Education
B.S. Ed. 1966, East Stroudsburg State University
M.A. Ed. 1981, Sonoma State University
Ed.D. 1990, University of San Francisco

Parviz Asheghian, 1991
Professor of Economics
B.S. Ed. 1966, East Stroudsburg State University
M.A. Ed. 1981, Sonoma State University
Ed.D. 1990, University of San Francisco

Manijeh Badiee, 2013
Assistant Professor of Psychology
Eun-OK Baek, 2002
Professor of Education
B.A. 1987, M.Ed. 1993, Chinju National University, Korea
C. Mo Bahk, 2001
Professor of Communication Studies

B.A. 1980, Yonsei University, Seoul, Korea
M.A. 1983/1990, State University of New York, Albany
Ph.D. 1994, Michigan State University
Robert Bailey, 2007
Lecturer in Education

B.A. 1975, M.A. 1982, California State University, San Bernardino
DED 1997, University of Laverne
Melissa Bakeman, 1999
Lecturer in Management

B.A. 1996, M.A. 2001, California State University, San Bernardino
David L. Baker, 2005
Professor of Public Administration

Ph.D. 2004, Arizona State University
Maria V. Balderrama, 1994
Professor of Education

B.A. 1978, Wellesley College
M.A. 1988, San Jose State University
Russell J. Barber, 1984
Professor of Anthropology

B.A. 1972, University of Vermont
A.M. 1974, Ph.D. 1979, Harvard University
Lisa Bartle, 1999
Librarian

B.A. 1990, University of California, Santa Barbara
M.A. 1993, University of California, Riverside
M.L.I.S. 1997, University of California, Los Angeles
Mohammad Bazaz, 2011
Professor of Accounting and Finance

B.A. 1972, Advanced School of Accountancy, Iran
M.A. 1973, National Iranian School of Accountancy, Iran
Ph.D. 1984, University Of Oklahoma

Monideepa Becerra, 2014
Assistant Professor of Health Science and Human Ecology

B.S. 2008, University of California, Riverside
M.P.H. 2011, Loma Linda University
Francisca Beer, 1990
Professor of Accounting and Finance

B.A. 1982, M.A. 1983, University of Catholique de Mons
Ph.D. 1990, Catholic University of Louvain
Rafiqul Bhuyan, 2007
Professor of Accounting and Finance

B.A. 1995, University of Dhaka, Bangladesh
M.S. 1992, University of Illinois, Urban Campus
Ph.D. 2002, Concordia University, Montreal, Canada

Gisela Bichler, 2000
Professor of Criminal Justice

B.A. 1994, Simon Frazier University
M.A. 1996, Ph.D. 2000, Rutgers University
Andrew Bodman, 2009
Professor of Geography
Provost and Vice President for Academic Affairs

Ph.D. 1978, The Ohio State University

Mary Boland, 2001
Professor of English

B.A. 1984, State University of New York, Albany
M.A. 1996, Ph.D. 2002, University of Rochester

Colleen R. Bonney, 1997
Professor of Biology

B.S. 1985, M.S. 1988, California State Polytechnic University, Pomona
Ph.D. 1993, University of Chicago

Nicole Bourinias-Vardabiabasis, 1987
Professor of Biology

B.S. 1975, University of California, Irvine
Ph.D. 1978, University of Essex, United Kingdom

Diane K. Brantley, 2003
Professor of Education

B.A. 1985, San Diego State University
M.A. 1997, California State University, San Bernardino
Ph.D. 2001, University of Nevada, Las Vegas

Haakon Brown, 2009
Assistant Professor of Marketing

B.S. 1995, Columbia University
M.B.A. 2001, Massachusetts Institute of Technology
Ph.D. 2009, Northwestern University

James Brown, 1989
Professor of English

B.A. 1980, San Francisco State University
M.F.A. 1986, University of California, Irvine

Annie Buckley, 2011
Assistant Professor of Art

B.A. 1990, University of California, Berkeley
M.F.A. 2003, Otis College Of Art Design

Ruth E. Burke, 1989
Associate Professor of World Languages and Literatures

B.A. 1972, Loma Linda University
M.A. 1975, Ph.D. 1984, University of California, Riverside

Sidney Burks, 2014
Lecturer in Education

B. Jill Buroker, 1981
Professor of Philosophy

B.A. 1967, DePauw University
M.A. 1968, Ph.D. 1975, University of Chicago

Cesar Caballero
University Librarian, Dean, Pfau Library

B.A. 1972, University of Texas, El Paso
MLS 1974, University of Texas, Austin

Kelly Campbell, 2008
Associate Professor of Psychology

B.A. 2000, M.A. 2003, University of British Columbia
Ph.D. 2008, University of Georgia

David Carlson, 2001
Professor of English

B.A. 1992, Colgate University
M.A. 1994, Ph.D. 2000, Indiana University

Janet C. Chang, 1999
Professor of Social Work

B.A. 1998, Ewha Women’s University, Seoul, Korea
University, Los Angeles

Michael Y. Chao, 2005
Professor of Biology and Biochemistry B
Ph.D. 2001, University of Texas Southwestern Medical Center

Donovan Chau, 2007
Associate Professor of Political Science

B.A. 2000, Claremont McKenna College
M.S. 2002, Southwest Missouri State University
A.B. 1982, Harvard
M.A. 1986, Ph.D. 1993, University of California, Berkeley

Joseph D. Chavez, 1987
Professor of Mathematics

B.S. 1982, University of San Francisco
M.S. 1985, Ph.D. 1987, University of California, Riverside

David V. Chavez, 1988
Professor of Psychology

A.B. 1982, Harvard
M.A. 1986, Ph.D. 1993, University of California, Berkeley

Rong Chen, 1992
Professor of English, Interim Associate Vice President Academic and International Programs

B.A. 1979, Xian Foreign Language Institute
M.A. 1986, Ph.D. 1990, Ball State University, Muncie, Indiana

Zeng-yin Chen, 2001

Professor of Sociology

B.A. 1981, Beijing Normal University
M.A. 1988, Dartmouth College

Dorothy C. Chen-Maynard, 1992
Associate Professor of Health Science and Human Ecology

B.S. 1978, University of Southern California
M.S. 1981, California State University, Los Angeles
Ph.D. 1994, University of California, Davis.

Yuchin Chien, 1989
Professor of Psychology, Associate Chair

B.S. 1975, Chengchi University (Taiwan Intl.)
M.S. 1979, Ph.D. 1983, Cornell University

Jane Chin Davidson, 2013
Assistant Professor of Art

Ph.D. 2007, University of Manchester

Rueyling Chuang, 2000
Professor of Communication Studies

B.A. 1987, Tamkang University, Taiwan
M.S. 1992, California State University, Hayward
Ph.D. 1996, Ohio University, Athens

John P. Clapper, 2002
Associate Professor of Psychology

B.A. 1983, State University of New York at Buffalo
Ph.D. 1988, Stanford University

Kim R. Clark, 1998
Professor of Health Science and Human Ecology

B.A. 1971, California State University, Humboldt
M.P.H. 1979, Loma Linda University
Dr.P.H. 1991, University of California, Berkeley

Mark T. Clark, 1990
Professor of Political Science

B.A. 1984, California State Polytechnic University
M.A. 1986, Ph.D. 1989, University of Southern California

J. Milton Clark, 1983
Associate Professor of English, Associate Vice President of Undergraduate Studies

B.A. 1972, California State College, San Bernardino
M.A. 1977, Ph.D. 1988, University of California, Riverside

Breena Coates, 2009
Professor of Management

M.A. 1993 University of Pittsburgh
Ph.D. 1999, University of Pittsburgh

Debra Cohen, 2007
Lecturer in Nursing

B.S.N. 2003, M.S.N. 2005, University of Phoenix
Ted Coleman, 2006  
Professor of Health Science and Human Ecology  
B.A. 1979, M.H.Ed. 1980, Brigham Young University  
Ph.D. 1983, Purdue University  
Kimberly Collins, 2009  
Associate Professor of Public Administration  
B.A. 1991, University of California, San Diego  
M.A. 1994, San Diego State University  
Ph.D. 2006, El Colegio de la Frontera Norte  
Kurt Collins, 1998  
Professor of Art  
B.A. 1995, University of Colorado  
M.S. 1996, Ferris State University  
Arturo I. Concepcion, 1990  
Professor of Computer Science and Engineering  
B.S. 1969, University of Santo Tomas, Manila  
M.S. 1981, Washington State University  
Ph.D. 1984, Wayne State University, Detroit  
Marissa Congdon, 2013  
Assistant Professor of Education  
Ph.D., 2013, University of Washington  
Meredith Conroy, 2013  
Assistant Professor of Political Science  
Ph.D., 2010, University of California, Santa Barbara  
Rafael E. Correa, 1985  
Professor of World Languages and Literatures, Chair  
B.A. 1973, M.A. 1976, Ph.D. 1984, Rutgers University  
Thomas Corrigan, 2012  
Assistant Professor of Communication Studies  
Ph.D. 2012, Pennsylvania State University  
Pablo Costa, 2011  
Assistant Professor of Kinesiology  
B.S. 2004, Estacio De Sa’, Costa Rica  
M.S. 2007, Florida Atlantics University  
Ph.D. 2011, University of Oklahoma  
Kimberly A. Costino, 2002  
Professor of English  
Director of the Teaching Resource Center  
B.A. 1993, Ursinus College  
M.A. 1996, Villanova University  
Ph.D. 2002, University of Massachusetts  
Cynthia Cotter, 1998  
Lecturer in English  
B.A. 1983, M.A. 1991, California State University, San Bernardino  
Anthony Coulson, 2001  
Professor of Information and Decision Sciences  
B.A. 1992, M.B.A. 1993, California State University, San Bernardino  
Ph.D. 2002, Claremont Graduate School  
Janet Courts, 2005  
Lecturer in Accounting and Finance  
B.S. 1985, M.B.A. 1990, California State University, San Bernardino  
Kimberley R. Cousins, 1991  
Professor of Chemistry and Biochemistry  
B.S. 1984, Duke University  
Ph.D. 1991, University of Texas, Austin  
Cynthia A. Crawford, 1996  
Professor of Psychology  
B.A. 1985, Washington University  
M.A. 1989, Ph.D. 1992, University of Kentucky  
Robert G. Cupp, 2006  
Lecturer in Psychology  
B.A. 1986, M.A. 1989, California State University, San Bernardino  
Nicole Dabbs, 2013  
Assistant Professor of Kinesiology  
Ph.D., 2013, University of Mississippi - Main Campus  
Carol Damgen, 2011  
Lecturer in Theatre Arts  
B.A. 2003, M.A. 2006, California State University, San Bernardino  
Susan Daniels, 2000  
Professor of Education  
B.A. 1980, Barat College  
M.A. 1990, Northeastern Illinois University  
Ph.D. 1995, University of Wisconsin-Madison  
Matthew Davidson, 2001  
Professor of Philosophy, Chair  
B.A. 1994, University of Illinois  
M.A. 1997, Ph.D. 2000, University of Wisconsin  
Thomas D. Davis, 2002  
Associate Professor of Social Work  
Long Beach  
Ph.D. 2001, University of Washington  
Claudia Davis, 2012  
Associate Professor of Nursing  
Ph.D., University of California, Los Angeles, 2013  
Juan Delgado, 1987  
Professor of English  
B.A. 1983, California State University, San Bernardino  
M.F.A. 1985, University of California, Irvine  
Cory Dennis, 2012
Assistant Professor of Social Work
Ph.D., University at Albany State, University of York, 2012
Foad Derakhshan, 1985
Professor of Management
B.S. 1973, Tehran College of Business Sciences
M.B.A. 1976, Ph.D. 1979, Louisiana State University
Cheryl A. Di Pretoro, 2002
Lecturer in Nursing
B.S. 1975, State University of New York at Buffalo
M.S. 1991, University of California, Los Angeles
C. Bibiana Diaz, 2012
Lecturer in World Languages and Literatures
Ph.D., University of California, Irvine, expected (2012)
Lynn Diaz-Rico, 1989
Professor of Education, Chair
B.A. 1968, University of Pittsburgh
M.A. Ed. 1977, Arizona State University
Ed.D. 1988, InterAmerican University of Puerto Rico
Risa E. Dickson, 1991
Professor of Communication Studies
B.A. 1987, California State University, Northridge
M.A. 1990, Ph.D. 1991, University of Southern California
Paul K. Dixon, 1992
Professor of Physics, Chair
B.S. 1983, University of Michigan
M.A. 1985, Ph.D. 1990, University of Chicago
Margaret S. Doane, 1976
Professor of English
B.A. 1970, University of Redlands
M.A. 1971, Northern Arizona University
Ph.D. 1976, University of Oregon
Teresa Dodd-Butera, 2008
Associate Professor of Nursing
M.A. 1995, San Diego State University
Ph.D. 2008, University of California, San Diego
Jeremy Dodsworth, 2014
Assistant Professor of Biology
B.S. 2000, University of Wisconsin, Madison
Ph.D. 2006, University of California, San Diego
John R. Dorocak, 1991
Professor of Accounting and Finance
A.B. 1973, Xavier University, Cincinnati, Ohio
J.D. 1977, Case Western Reserve University, Cleveland, Ohio
LLM (Tax) 1990, University of Florida
Dany Doueiri, 2006
Associate Professor in World Languages and Literatures
B.S. 1989, California Polytechnic University
M.S. 1991, University of California, Davis
Ph.D. 1996, University of California, Los Angeles
Donald A. Drost, 1987
Professor of Management
B.A. 1975, M.B.A. 1977, California State University, Fullerton
Ph.D. 1984, Virginia Polytechnic Institute and State University
Corey M. Dunn, 2006
Associate Professor of Mathematics
B.S. 2000, Pacific Lutheran University
M.S. 2002, Ph.D. 2006, University of Oregon
Glen Dunzweiler, 2012
Professor of Theatre Arts
M.F.A. 1981, University of California, Los Angeles
M.F.A. 1984, University of Southern California
M.F.A. 1989, University of California, Los Angeles
Todd Fagin, 2012
Assistant Professor of Theatre Arts
M.S. 1995, University of California, Los Angeles
Ph.D. 2000, University of California, Los Angeles
Camila Fajardo, 2014
Professor of Computer Science
B.A. 1971, University of California, Santa Barbara
M.S. 1973, University of California, Los Angeles
Ph.D. 1980, University of California, Los Angeles
James Estes, 2005
Professor of Accounting and Finance
B.A. 1968, M.B.A. 1973, California State University, Fullerton
Ph.D. 1998, California Coast University
Christine N. Famega, 2002
Associate Professor of Criminal Justice
B.A. 1993, University of Manitoba
M.A. 1996, Minot State University
Ph.D. 2003, University of Cincinnati

Kamvar Farahbod, 1991
Professor of Information and Decision Sciences

B.A. 1976, University of Tehran
M.S. 1979, Ph.D. 2007, Pennsylvania State University

Parastou Feiz, 2007
Associate Professor of English

B.A. 1998, Shahid Beheshti University, Iran

Hajrudin Fejzic, 1994
Professor of Mathematics

B.S. 1987, University of Sarajevo, Sarajevo, Bosnia and Herzegovina
Ph.D. 1992, Michigan State University

James V. Fenelon, 1999
Professor of Sociology

B.A. 1978, Loyola Marymount University
M.A. 1981, M.A. 1983, School of International Training
Ph.D. 1995, Northwestern University

Arturo Fernández-Gilbert, 2001
Professor of World Languages and Literatures

B.A. 1988, M.A. 1991, Universidad Complutense de Madrid
Ph.D. 2001, University of New Mexico, Albuquerque

James A. Ferrari, 1990
Professor of Biology

B.A. 1975, Queens College, City University of New York
M.S. 1979, Ph.D. 1985, University of California, Riverside

Antony Field, 2011
Assistant Professor of Political Science

B.A. 2000, University of Hull, England
M.S. 2002, Missouri State University
Ph.D. 2010, University of Warwick

Jay Fiene, 2009
Professor of Education

Ph.D. 1995, University of Missouri-Columbia, Columbia

Geraldine Fike, 2014
Assistant Professor of Nursing

B.S.N. 1998, M.S.N. 2002, California State University, Dominguez Hills
D.N.P. 2012, Western University

Davida D. Fischman, 1994
Professor of Mathematics

B.S. 1976, M.S. 1978, Ph.D. 1989, Ben Gurion University

Barbara M. Flores, 1987
Associate Professor of Psychology

Professor of Education

B.A. 1970, California State University, Hayward
M.A. 1976, California State University, Sacramento
Ph.D. 1982, University of Arizona

Mary Fong, 1992
Professor of Communication Studies

B.A. 1981, University of Southern California
M.A. 1984, California State University, Long Beach
Ph.D. 1994, University of Washington

Sherri Franklin-Guy, 2007
Associate Professor of Education


Catherine (Stacy) Fraser, 2007
Professor of Music

B.M. 1994, University of Toronto
M.M. 1996, Manhattan School of Music
D.M.A. 2003, University of California, San Diego

Christopher F. Freiling, 1983
Professor of Mathematics

B.S. 1975, University of San Francisco
Ph.D. 1981, University of California, Los Angeles

Joan E. Fryxell, 1989
Professor of Geological Sciences

B.A. 1977, Earlham College
M.A. 1980, University of Texas
Ph.D. 1984, University of North Carolina

Marc Fudge, 2011
Assistant Professor of Public Administration

B.A. 1992, Howard University
M.P.A. 1999, Fairleigh Dickinson University
Ph.D. 2011, Rutgers University

Larry K. Gaines, 1998
Professor of Criminal Justice, Chair

B.S. 1971, M.S. 1972, Eastern Kentucky University
Ph.D. 1975, Sam Houston State University

M. Antonietta Gallegos-Ruiz, 1990
Professor of World Languages and Literatures

B.A. 1976, M.A. 1979, California State University, Los Angeles
Ph.D. 1987, University of Southern California

Beverly Gallo, 1989
Lecturer in Philosophy

B.A. 1971, M.A. 1984, San Jose State University
Ph.D. 1989, University of California, Riverside

Donna Garcia, 2009
Associate Professor of Psychology
B.A. 1999, Wilfrid Laurier University
M.A. 2001, University of Guelph
Ph.D. 2006, University of Kansas

Maria García-Puente, 2013
Lecturer in World Languages and Literatures
Ph.D., University of Kansas, 2013 (expected)

Thom Gehring, 1991
Professor of Education
B.A. 1972, Trenton State College
M.Ed. 1975, Ph.D. 1987, Virginia Commonwealth University

Chris Gentry, 2014
Assistant Professor of Kinesiology

B.S. 2005, M.S. 2011, Southern Illinois University

George M. Georgiou, 1992
Professor of Computer Science and Engineering
B.S.E.E. 1985, Louisiana Tech University
M.S.E.E 1987, M.S. 1988, Louisiana State University
M.S. 1990, Ph.D. 1992, Tulane University

Kareen Gervasi, 2006
Associate Professor of World Languages and Literatures

B.A. 1992, Pontifical Catholic University of Peru
M.A. 1994, Ph.D. 2000, University of Southern California

Ellen Gil-Gomez, 2001
Professor of English
B.A. 1990, University of California, Santa Barbara
M.A. 1991, California State University, Long Beach
Ph.D. 1995, Washington State University

Janelle Gilbert, 1994
Associate Professor of Psychology

B.A. 1988, New York University
M.A. 1990, Ph.D. 1994, George Mason University

Donald Girard, 2013
Lecturer in Communication Studies

M.B.A., 1979, Ohio University - Main Campus

Brenda Glascott, 2007
Associate Professor of English

B.A. 1996, Binghamton University
M.A. 2001, Ph.D. 2007, University of Pittsburgh

Cari Goetz, 2014
Assistant Professor of Psychology

B.S. 2006, University of California, Los Angeles
Ph.D. 2014, University of Texas, Austin

Brett Goforth, 2013
Assistant Professor of Geography and Environmental Studies
Ph.D., 2009, University of California, Riverside

Ernesto Gomez, 2000
Associate Professor of Computer Science and Engineering
B.A. 1969, Cornell University
M.S. 1975, Universidad de Puerto Rico
Ph.D. 2005, University of Chicago

Donna Gotch, 2002
Lecturer in Communication Studies

B.A. 1984, M.A. 1986, California State University, Los Angeles

Jo Anna Grant, 2003
Professor of Communication Studies
B.A. 1988, M.S. 1990, Texas Christian University
Ph.D. 1996, University of Oklahoma, Norman

Katherine Gray, 2007
Associate Professor of Art

B.A. 1989, Ontario College of Art
M.F.A. 1991, Rhode Island School of Design

Marsha Greer, 2001
Associate Professor of Health Science and Human Ecology, Chair

B.A. 1973, University of Northern Colorado
M.S. 1977, Washington State University
M.S. 1990, University of Oregon
Ph.D. 1995, Oregon State University

Wilbert Greer, 2014
Assistant Professor of Education

B.A. 2001, University of California, Riverside
M.A. 2007, California State University, San Bernardino
Ph.D. 2013, Claremont Graduate University

Gary R. Griffing, 1987
Professor of Mathematics

B.S. 1981, M.S. 1984, Ph.D. 1986, University of California, Riverside

Kevin Grisham, 2010
Assistant Professor Geography and Environmental Studies

B.A. 1997, California State University, San Bernardino
M.A. 2005, Ph.D. 2009, University of California, Riverside

Mark Groen, 2006
Associate Professor of Education

B.A. 1981, California State University, Northridge
M.A. 1992, University of Southern California
Ph.D. 2002, University of California, Riverside

Liang Kevin Guo, 2013
Assistant Professor of Accounting and Finance

Ph.D., 2013, University of Texas - San Antonio

Vipin Gupta, 2010
Professor of Management, Associate Dean

B.A. 1988, Shri Ram College of Commerce, Delhi University
M.B.A. 1990, Indian Institute of Management, Ahmedabad
Ph.D. 1998, Wharton School, University of Pennsylvania
Juan M. Gutierrez, 1987
Professor of Education

B.A. 1972, California State University, San Bernardino
Bryan Haddock, 2001
Professor of Kinesiology

B.A. 1986, The Master’s College
M.S. 1988, Ph.D. 1998, Loma Linda University
Ilseop Han, 2001
Professor of Mathematics

B.A. 1986, M.S. 1988, Korea University
Ph.D. 1999, University of California, San Diego
Joyce A. Hanson, 1998
Professor of History, Chair

B.A. 1990, Central Connecticut State University
M.A. 1992, Ph.D. 1997, University of Connecticut
Andre Harrington, 2006
Associate Professor of Theatre Arts

B.S. 1986, University of Maryland, College Park
M.F.A. 2005, The University of Iowa, Iowa City
Shyra Harris, 2014
Lecturer in Social Work

B.A. 2009, M.S.W. 2011, California State University, San Bernardino
Zahid Hasan, 1985
Professor of Mathematics

B.S. 1973, M.S. 1976, University of Punjab, Pakistan
Ph.D. 1982, University of Birmingham, England
Christina Hassija, 2013
Assistant Professor of Psychology

Ph.D., 2011, University of Utah
Lorraine Hedtke, 2012
Associate Professor of Education

Ph.D., University of California, Los Angeles, 2003
Young Suk Hwang, 2000
Professor of Education

B.A. 1989, Chongshin University, Korea
M.Ed. 1993, Ph.D. 1998, Auburn University, Alabama
Sung-Heh Hyon, 1994
Professor of English, Chair

B.A. 1989, University of California, San Diego
Ph.D. 1995, University of Michigan
Sergio Iñiguez, 2011
Associate Professor of Psychology

B.A. 2002, M.A. 2007, California State University, San Bernardino
Ph.D. 2011, Florida State University
Fred E. Jandt, 1983
Professor of Communication Studies
Dean

B.A. 1966, Texas Lutheran College
M.A. 1967, Stephen F. Austin State University
Ph.D. 1970, Bowling Green State University
Brian P. Janiskee, 1998
Professor of Political Science, Chair
B.A. 1989, Western Michigan University

Carmen Jany, 2007
Associate Professor of World Languages and Literatures
Ph.D. 2001, University of Zurich, Switzerland
Santa Barbara

Todd E. Jennings, 1990
Professor of Education, Associate Dean

B.A. 1983, Biola University
M.A. 1989, Ph.D. 1991, Claremont Graduate University

Jesus D. Jerez-Gomez, 2006
Associate Professor of World Languages and Literatures
B.A. 1998, Universidad de Granada, Spain
M.A. 2000, Kansas State University
Ph.D. 2006, University of California, Davis

Erik Jester, 2011
Assistant Professor of Music
B.M. 2005, M.M. 2008, Pennsylvania State University Main Campus
D.M.A., University Of Wisconsin, 2011

Joseph Jesunathadas, 1989
Professor of Education, Chair
B.S. 1973, Kerala University
M.S. 1985, Ed.D. 1990, Utah State University

Madeleine Jetter, 2007
Associate Professor of Mathematics
B.A. 1999, Columbia University
M.A. 2001, Ph.D. 2007, University of California, Los Angles

John Jin, 2009
Professor of Accounting and Finance
B.A. 1979, M.B.A. 1981, Yon-Sei University
M.S. 1984, University of Illinois at Urbana-Campaign
Ph.D. 1989, University of Arizona

Susan Jindra, 2007
Lecturer in Education
B.A. 1972, Columbia University
M.S., DED 2001, University of Southern California

Todd Johnson, 2006
Professor of Music, Chair
B.M./B.S. 1988, Central Michigan University
M.M. 1989, Northwestern University
D.M.A. 1999, University of Oklahoma

Ann Marie Johnson, 2013
Assistant Professor of Public Administration
Ph.D., 2011, University of Delaware

Richard M. Johnston, 1990
Professor of Art

B.A. 1966, California State University, Long Beach
M.F.A. 1968, Cranbrook Academy of Art

Tiffany Jones, 2007
Associate Professor of History

B.A. 1999, M.A. 2000, Dalhousie University
Ph.D. 2004, Queen’s University, Canada

Yuichiro Kakihara, 2000
Professor of Mathematics
B.S. 1974, M.S. 1976, Dr. Sci. 1985, Tokyo Institute of Technology,
Tokyo, Japan

Rajrani Kalra, 2008
Associate Professor of Geography and Environmental Sciences
M.A. 2003, University of Akron
Ph.D. 2007, Kent State University

N. Laura Kampsner, 1984
Professor of Psychology
B.S. 1976, San Diego State University
M.S. 1979, University of California, Davis
Ph.D. 1984, Michigan State University

Yasha Karant, 1989
Professor of Computer Science and Engineering
B.A. 1975, Immaculate Heart/Cal Tech
Ph.D. 1981, University of California, Berkeley

Ryan Keating, 2013
Assistant Professor of History
Ph.D., 2013, University of New Mexico - Main Campus

Rachel Keener, 2007
Student Services Professional
Ps.D. 2006, Fuller Graduate School of Psychology

Dong M. Kim, 1990
Professor of Accounting and Finance
B.S. 1978, So Gang University
M.B.A. 1984, West Georgia College
Ph.D. 1990, Arizona State University

Yu Jung Kim, 2006
Associate Professor of Chemistry and Biochemistry
B.S. 1995, M.S. 1995, Ph.D. 2002, University of California, Riverside

Sue Kim, 2013
Assistant Professor of Health Science and Human Ecology
Ph.D., 2013, University of California Berkeley

Paul Kirwan, 2008
Assistant Professor of Management

Ph.D. Expected, University of Twente, the Netherlands
Robert J. Knop, 2004
Associate Professor of Music
B.M. 1971, Roosevelt University
M.M. 1998, Northern Illinois University
D.A. 2002, University of Northern Colorado

Michal Kohout, 2003
Associate Professor of Geography and Environmental Studies
B.A. 1993, University of Western Ontario
M.A. 1996, Southwest Texas State University
Ph.D. 2004, Clark University

Karen Kolehmainen, 1988
Professor of Physics
B.S. 1977, Michigan State University
Ph.D. 1983, State University of New York at Stony Brook

Leslie M. Kong, 1990
Librarian
Head
B.A. 1975, San Francisco State University
M.L.S. 1977, University of California, Berkeley
M.B.A. 1987, California State University, Sacramento

Kazim Konyar, 1991
Professor of Economics
B.A. 1977, San Diego State University
M.A. 1980, Ph.D. 1975, University of California, Riverside

Hideya Koshino, 1994
Professor of Psychology
B.A. 1983, M.A. 1985, International Christian University, Tokyo
Ph.D. 1994, University of Kansas

Janet L. Kottke, 1984
Professor of Psychology
B.A. 1978, Wartburg College
M.S. 1981, Ph.D. 1985, Iowa State University

Kurt Kowalski, 2003
Professor of Education
B.A. 1990, Ph.D. 1995, Arizona State University

Janine Kremling, 2008
Assistant Professor of Criminal Justice
M.A. 2001, University of Leipzig
M.A. 2004, University of South Florida
Ph.D. 2010, University of South Florida

Robert LaChausse, 2002
Lecturer in Health Science and Human Ecology
B.A. 1995, M.A. 1998, California State University, San Bernardino

Ray Liles, 2001
Lecturer in Social Work
B.A. 1975, California State University, Fullerton
M.S.W. 1977, University of Southern California
D.S.W. 1984, University of California, Los Angeles

Frank M. Lin, 1991
Professor of Information and Decision Sciences
Associate Dean
B.S. 1981, Tatung Institute of Tech at Buffalo

Christopher H. Lindfelt, 2007
Associate Professor of Health Science and Human Ecology, Assistant Dean
B.A. 1989, Lawrence University

Patricia Little, 1993
Assistant Professor of Sociology
B.S. 1977, Oregon State University
B.A. 1986, M.A. 1990, Ph.D. 1994, University of California, Riverside

Brenda Littleton, 2007
Lecturer in Education
B.A. 2001, M.A. 2005, California State University, San Bernardino

Xiang Liu, 2009
Associate Professor of Accounting and Finance
B.A. 1998, Beijing Foreign Studies University
M.B.A. 2004, University of Washington
Ph.D. 2009, University of North Texas

Erica Lizano, 2014
Assistant Professor of Social Work
B.A. 2005, California State University, Fullerton
M.S. 2007, University of Southern California

Giovanna Llosent, 2007
Associate Professor of Mathematics
B.A. 1999, University of Costa Rica
M.S. 2006, Ph.D. 2007, University of Iowa

Min-Lin Lo, 2004
Associate Professor of Mathematics
B.S. 1997, National Tsing-Hua University, Hinchu, Taiwan
M.A. 2000, Ph.D. 2004, State University of New York at Buffalo

Professor of Education
B.A. 1969, M.S. 1971, University of Pennsylvania
Ed.D. 1975, University of Massachusetts, Amherst

Thomas Long, 2006
Associate Professor of History
B.A. 1993, Sonoma State University
M.A. 2001, California State University, Fullerton
Ph.D. 2006, University of California, Riverside

Angela Louque, 2000
Professor of Education
B.A. 1983, University of California, Los Angeles
M.A. 1986, Loyola Marymount
Ed.D. 1995, Pepperdine University

Chad Luck, 2008
Associate Professor of English
B.A. 1994, University of Washington
M.A. 2001, Indiana University

Ph.D. 2008, Indiana University
Jessica Luck, 2008
Associate Professor of English
B.A. 1996, M.S. 1997, University of Tennessee
M.A. 1999, Wake Forest University
Ph.D. 2006, Indiana University

Risa Lumley, 2011
Senior Assistant Librarian
B.A. 1985, University of California, Riverside
M.A. 1989, University of Iowa

Dale Lund, 2009
Professor of Sociology, Chair
B.S. 1973, M.S. 1976, Ph.D. 1979 University of Utah

Cherstin Lyon, 2006
Associate Professor of History
Ph.D. 2006, University of Arizona

Daniel MacDonald, 2013
Assistant Professor of Economics
Ph.D., 2013, University of Massachusetts Amherst

Stacy Magedanz, 2000
Librarian
B.A. 1990, M.A. 1992, University of Nebraska-Lincoln
M.A. 1996, University of Missouri-Columbia

Oraib Mango, 2011
Assistant Professor of World Languages and Literatures
B.A. 1992, University of Jordan, Amman

Alemayehu Mariam, 1989
Professor of Political Science
B.A. 1974, Augusta College
M.A. 1975, University of Northern Iowa
Ph.D. 1984, University of Minnesota
J.D. 1988, University of Maryland

David Marshall, 2007
Associate Professor of English, Assistant Dean
B.A. 1993, College of the Holy Cross
M.A. 1998, University of York
Ph.D. 2007, Indiana University

Nerea Marteache, 2013
Assistant Professor of Criminal Justice
Ph.D., Rutgers School of Criminal Justice, 2012

Elizabeth Martin, 2007
Associate Professor of World Languages and Literatures
B.A. 1981, Ball State University
M.A. 1984, Middlebury College
Ph.D. 1998, University of Illinois

Edna Martinez, 2014
Assistant Professor of Education

B.S. 2005, M.Ed. 2007, University of Texas, El Paso
Ph.D. 2014, Clemson University

Marcia Marx, 1995
Professor of Sociology

B.A. 1984, California State Polytechnic University, Pomona
M.A. 1987, Ph.D. 1993, University of California, Riverside

David F. Maynard, 1993
Professor of Chemistry and Biochemistry

B.S. 1976, California State University, San Bernardino
M.S. 1988, California State University, Long Beach
Ph.D. 1992, University of California, Riverside

Carolyn McAllister, 2008
Assistant Professor of Social Work

B.A. 1996, University of California, Davis
M.S.W. 1999, University of California, Los Angeles
Ph.D. 2003, Michigan State University

Marjorie McCabe, 1990
Professor of Education

B.S. 1976, M.Ed. 1977, Suffolk University
Ph.D. 1986, University of Southern California

Rosemary McCaslin, 1990
Professor of Social Work

B.A. 1970, University of Texas at Austin
A.M. 1973, Ph.D. 1980, University of Chicago

Sanders McDougall, 1991
Professor of Psychology

B.A. 1979, M.A. 1981, West Washington University
Ph.D. 1988, University of Kentucky

Susan J. McGee, 2000
Assistant Professor of Nursing

B.S.N. 1971, Ohio State University
M.S.N. 1982, University of California, San Francisco

Sally McGill, 1991
Professor of Geological Sciences

A.B. 1985, Harvard and Radcliffe
M.S. 1989, Ph.D. 1992, California Institute of Technology

Thomas McGovern, 2000
Professor of Art

B.A. 1988, Empire State College, New York
M.F.A. 2000, California State University, Fullerton

Shawnee L. McMurran, 2000
Professor of Mathematics

B.S. 1985, M.S. 1987, Ph.D. 1991, University of California, Riverside

Connie McReynolds, 2008
Professor of Education

M.S. 1988, Emporia State University
Ph.D. 1998, University of Wisconsin-Madison

Norman Meek, 1989
Professor of Geography and Environmental Studies, Chair

B.A. 1982, University of Kansas
M.A. 1984, Michigan State University
Ph.D. 1990, University of California, Los Angeles

Erik B. Melchiorre, 2002
Professor of Geological Sciences

B.S. 1990, University of Southern California
M.S. 1993, Arizona State University
Ph.D. 1998, Washington University

Josephine G. Mendoza, 1984
Professor of Computer Science and Engineering

B.S. 1974, M.Eng. 1977, University of the Philippines
Ph.D. 1984, University of Illinois

Allen Menton, 2010
Lecturer in Music

B.M. 2001, California State University, Long Beach
M.M. 2003, University of Southern California
Ph.D. 2009, University of California, Los Angeles

Allen Menton, 2012
Assistant Professor of Theater Arts

Ph.D., University of California, Los Angeles, 2009

Anthony E. Metcalf, 1999
Professor of Biology

B.A. 1977, Simon Fraser University
B.S. 1988, Ph.D. 1998, University of California, Riverside

Lal S. Mian, 1999
Professor of Health Science and Human Ecology

B.Sc. 1967, M.Sc. 1972, University of Peshawar, Pakistan
M.S. 1974, American University, Beirut, Lebanon
Ph.D. 1982, University of California, Riverside

Larry M. Mink, 1992
Professor of Chemistry and Biochemistry

B.S. 1984, Hebrew University of Jerusalem
M.S. 1986, Ph.D. 1990, University of California, Riverside

Aaron C. Moffett, 2005
Associate Professor of Kinesiology

B.A. 1999, George Washington University
M.A. 2001, University of Texas, Austin
Ph.D. 2005, Michigan State University

James M. Monaghan, 1996
Associate Professor of Education
Assistant Vice President for Academic Technologies and Distributed Learning
B.A. 1985, St. Anselm College
Ed.D. 1996, University of Massachusetts
Julian Montoro-Rodriguez, 2007
Professor of Sociology
B.A. 1988, University Complutense, Spain
M.A. 1992, Ph.D. 1994, Case Western Reserve University
Thelma Moore-Steward, 2006
Professor of Education, Chair
B.A. 1972, California State University, Dominguez Hills
M.S. 1975, Ed.D. 1990, University of Southern California
Ahlam H. Muhtaseb, 2003
Associate Professor of Communication Studies
B.A. 1994, Hebro University
M.A. 2000, Ph.D. 2004, University of Memphis
John Mumma, 2012
Assistant Professor of Philosophy
Ph.D., Carnegie Mellon University, 2006
Vishal Munsif, 2011
Assistant Professor of Accounting and Finance
B.B.A. 2007, M.A.C.C. 2007, Northern Kentucky University
Ph.D. 2011, Florida International University
Owen J. Murphy, 1990
Professor of Computer Science and Engineering
B.A. 1979, Holy Cross
M.S. 1982, Worcester Polytechnic Institute
Ph.D. 1985, Syracuse University
Jeremy Murray, 2011
Assistant Professor of History
B.A. 2001, SUNY at Albany
M.A. 2004, Columbia University in the City of New York
Ph.D. 2011, University of California, San Diego
José Muñoz, 2011
Assistant Professor of Sociology
B.A. 1995, University of California, Irvine
M.A. 1998, California State University, Dominguez Hills
Ph.D. 2008, State University of New York, Stony Brook
Kathleen M. Nadeau, 1999
Professor of Anthropology
B.S. 1976, Fitchburg State University
M.A. 1980, University of San Carlos
Ph.D. 1995, Arizona State University
Sang Seok Nam, 2006
Professor of Education
B.Ed. 1984, M.A. 1987, Taegu University
Ph.D. 1996, Arizona State University
Jamal Nassar, 2007
Professor of History and Political Science
Dean
B.A. 1972, Jacksonville University
M.A. 1974, University of South Florida
Ph.D. 1978, University of Cincinnati
Chris Naticchia, 1995
Professor of Philosophy
B.A. 1985, Cornell University
M.A. 1987, New York University, New York
Ph.D. 1995, University of Virginia, Charlottesville
Gary A. Negin, 1985
Professor of Education
B.A. 1971, University of Notre Dame
M.Ed. 1974, Florida Atlantic University
M.A. 1988, Marquette University
Ph.D. 1977, University of Minnesota
Terri J. Nelson, 1995
Professor of World Languages and Literatures
Chair
B.S. 1982, B.A. 1987, University of Utah
M.A. 1988, Middlebury College
Ph.D. 1995, Northwestern University, Illinois
Robert (Brett) Nelson, 2007
Professor of Education
B.A. 1976, Appalachian State University
M.A. 1980, Georgia State University
Ph.D. 1992, University of Colorado-Boulder
Vincent Nestler, 2014
Assistant Professor of Information and Decision Sciences
B.A. 1991, SUNY College at New Paltz
M.S. 2004, Capitol College, Laurel
Ph.D. 2012, University of Idaho, Pocatello
Brian W. Newberry, 2003
Professor of Education
B.A. 1985, Southern Illinois University of Edwardsville
M.S. 1993, Northern Arizona University
Ph.D. 2003, University of Kansas
Laura Newcomb, 2007
Associate Professor of Biology
B.S. 1995, University of Wisconsin, Milwaukee
Ph.D. 2001, University of Wisconsin, Madison
Professor of Marketing
Chair
B.S. 1991, MBA 1992, University of Montana
Ph.D. 2001, Washington State University

Ya (Anna) Ni, 2007
Associate Professor of Public Administration

B.A. 1993, University of Beijing, China
M.A. 2001, Iowa State University
Ph.D. 2007, Syracuse University

Wesley A. Niewoehner, 2001
Associate Professor of Anthropology

B.A. 1982, Colorado College
M.A. 1990, Colorado State University
Ph.D. 2000, University of New Mexico

Eric Nilsson, 1989
Professor of Economics
A.B. 1979, University of California, Berkeley
Ph.D. 1989, University of Massachusetts, Amherst

Phyllis Nix, 2002
Lecturer in Nursing
M.A. 1976, California State University, Los Angeles
M.S. 1963, Loma Linda University
Ph.D. 1998, Pacific Western University, Hawaii

James A. Nobleit, 2003
Professor of Chemistry and Biochemistry
B.S. 1983, University of California, Los Angeles
M.S. 1991, California State University, Long Beach
Ph.D. 1997, University of California, Los Angeles

Alexis Norris, 2014
Assistant Professor of Criminal Justice
B.A. 2005, Hampton University
M.A. 2008, Michigan State University, Lansing

Andrew Oakes, 2014
Assistant Professor of Art
B.A. 1997, California State University, San Bernardino

Hyun-Kyoung Oh, 2006
Associate Professor of Kinesiology
B.S. 1998, Dongduk Women's University, Seoul, Korea
M.S. 2000, Seoul National University, Seoul, Korea
Ph.D. 2006, Indiana University, Bloomington

Paul M. Orwin, 2003
Professor of Biology
B.S. 1991 Harvey Mudd College
Ph.D. 2001, University of Minnesota

Bradford (Kensil) Owen, 2007
Associate Professor of Communication Studies
B.A. 1979, Loyola Marymount University

Tomasz Owerkowicz, 2011
Assistant Professor of Biology

Julie Paegle, 2006
Professor of English

Yumi Pak, 2014
Assistant Professor of English
B.A. 2004, M.A. 2009, University of California, Santa Cruz
Ph.D. 2012, University of California, San Diego

Deborah A. Parsons, 1996
Associate Professor of Criminal Justice
B.A. 1990, University of California, Irvine
M.S. 1992, California State University, Long Beach
Ph.D. 1996, University of California, Irvine

Gary D. Patterson, 1987
Professor of Management
B.A. 1973, B.S. 1973, California State University, Fresno
M.A. 1976, Indiana University, Bloomington
J.D. 1983, Western State University, Fullerton

Kathie Pelletier, 2008
Associate Professor of Management
B.A. 1982, San Diego State University
M.S. 1998, California State University, San Bernardino
Ph.D. 2009, Claremont Graduate University, CA

Ronald K. Pendleton, 1981
Professor of Education
B.A. 1964, California State College, Humboldt
M.A. 1978, California State University, Long Beach
Ph.D. 1981, Arizona State University

Margaret A. Perry, 1987
Professor of Theatre Arts, Chair Art Department
B.A. 1975, M.F.A. 1985, San Diego State University

Bonnie L. Petry, 1992
Associate Librarian
B.A. 1979, California State University, Sacramento
M.L.S. 1988, University of California, Los Angeles

Robert N. Phalen, 2006
Associate Professor of Health Science and Human Ecology
B.A. 1995, California State University, Fullerton
Ph.D. 2006, University of California, Los Angeles

Kathleen M. Phillips, 2001
Lecturer in Education
B.A. 1987, Michigan State University
M.A. 1994, California State University, San Bernardino

Thomas J. Pierce, 1976
California State University, San Bernardino

Professor of Economics

B.A. 1971, La Salle College
M.A. 1975, Ph.D. 1976, University of Notre Dame

Renee Pigeon, 1990
Professor of English

B.A. 1978, University of California, Santa Barbara
M.A. 1984, Ph.D. 1988, University of California, Los Angeles

David Polcyn, 1988
Professor of Biology, Chair

B.A. 1981, California State University, Fullerton
M.A. 1983, Ph.D. 1988, University of California, Riverside

Shelly Pope, 1993
Counselor

B.S. 1981, M.S. 1989, California State University, San Bernardino

Mihaela Popescu, 2006
Associate Professor of Communication Studies

B.A. 1994, University of Bucharest, Romania
M.A. 2001, Ph.D. 2008, University of Pennsylvania

Corrine Previte, 2014
Assistant Professor of Mathematics

B.S. 2009, University of Redlands

Thomas E. Provenzano, 1992
Professor of Theatre Arts

B.A. 1978, University of California, Berkeley
M.F.A. 1992, University of California, Los Angeles

Lynne Susie Pryor, 2013
Assistant Professor of Management

Ph.D., 2006, University of Nebraska-Lincoln

Timothy E. Pytell, 2003
Professor of History

B.A. 1985, Colorado Springs College
M.A. 1990, Ph.D. 1999, New York University

Haiyan Qiao, 2007
Associate Professor of Computer Science and Engineering

B.S. 1993, Huanzhong University, China
M.S. 2002, North Dakota State University
Ph.D. 2007, University of Arizona

Ranfeng Qiu, 2010
Assistant Professor of Management

Economics
M.A. 2005, Indiana University at Bloomington
Ph.D. 2010, Rutgers University, New Jersey

Barbara A. Quarton, 1999
Librarian

B.A. 1977, University of San Diego

M.L.I.S. 1999, San Jose State University

Matthew Quinlan, 2009
Lecturer in Psychology

B.A. 2000, Loyola Marymount University
M.A. 2005, University of California, Santa Barbara
Ph.D. 2009, Concordia University

James V. Radomski, 1994
Professor of Music

B.M., B.A. 1976, Oberlin College
M.A. 1981, University of California, Berkeley
Ph.D. 1992, University of California, Los Angeles

Alison Petty Raguette, 2006
Associate Professor of Art

B.F.A. 1997, Concordia University
M.F.A. 2004, California College of the Arts

Luz Ramirez, 2001
Professor of English

B.A. 1991, Tulane University
M.A. 1994, Ph.D. 1998, University of Texas, Austin

Jason Reimer, 2001
Professor of Psychology

B.A. 1993, M.A. 1996, Ph.D. 2001, University of Nebraska at Omaha

John Reitzel, 2014
Assistant Professor of Criminal Justice

B.A. 2001, SUNY, Cortland
M.A. 2003, Ph.D. 2006, University of Florida, Gainsville

Paul A. Renteln, 1991
Professor of Physics

B.A. 1981, University of California, Berkeley
Ph.D. 1988, Harvard University

Ernesto M. Reza, 1987
Professor of Management

B.A. 1977, Pitzer College
M.A. 1982, Ph.D. 1992, University of Michigan

David Rhoads, 2013
Assistant Professor of Biology

Ph.D., 1992, Michigan State University

Jacqueline R. Rhodes, 1999
Professor of English

B.A. 1988, University of Montana
M.A. 1992, University of Idaho
Ph.D. 1999, University of Southern Mississippi

Robert B. Ricco, 1992
Professor of Psychology, Chair

B.A. 1980, New York University
Ph.D. 1987, Temple University
Greg Richey, 2006
Lecturer in Accounting and Finance

B.A. 1991, University of California, Riverside
M.B.A. 2001, California State University, San Bernardino
David M. Riefer, 1985
Professor of Psychology, Assistant Dean

B.A. 1975, University of California, Los Angeles
Ph.D. 1981, University of California, Irvine
Matt L. Riggs, 2005
Professor of Psychology

B.A. 1979, Bethany College, KS
M.S. 1986, Ph.D. 1989, Kansas State University
Dan C. Rinne, 1982
Professor of Mathematics

B.S. 1975, University of Missouri, Columbia
M.A., Ph.D. 1979, University of California, Santa Barbara
Jose Rivera, 2013
Lecture in Communication Studies

M.A. 2011, California State University, San Bernardino
Terry L. Rizzo, 1988
Professor of Kinesiology, Chair

B.A. 1973, Northeastern Illinois University
M.Ed. 1974, University of Arizona
Ph.D. 1983, University of Illinois, Urbana-Champaign
Peter Robertshaw, 1989
Professor of Anthropology, Chair

Ora Robinson, 2007
Assistant Professor of Nursing

B.S.N. 1998, M.S.N. 1995, University of Wisconsin
Ph.D. 2006, Capella University
Karen Robinson, 2014
Assistant Professor of Sociology

B.A. 1998, University of California, Los Angeles
Ph.D. 2011, University of California, Irvine
Louie Rodriguez, 2009
Associate Professor of Education

B.A. 1998, California State University, San Bernardino
E.D.M. 1999, Ph.D. 2005, Harvard University
Alexandru Roman, 2013
Assistant Professor of Public Administration

Ph.D., 2013, Florida Atlantic University
Lawrence Rose, 2011
Professor of Accounting and Finance

Dean

B.S. 1976, Bradley University
M.A. 1978, Northern Illinois University
Ph.D. 1985, Texas A and M
Karen Rowan, 2008
Assistant Professor of English

B.A. 1996, Guilford College
Ph.D. 2005, University of Albany
Tony D. Roy, 1992
Professor of Philosophy

B.A. 1979, M.A. 1988, University of California, San Diego
Ph.D. 1991, University of California, Davis
Treadwell Ruml, II, 1990
Professor of English

A.B. 1974, Harvard College
J.D. 1977, Harvard Law School
M.A. 1982, Ph.D. 1989, University of Virginia
DeShea R. Rushing, 1985
Lecturer in English

B.A. 1981, California State University, Long Beach
M.A. 1983, California State University, San Bernardino
John Russell , 2013
Assistant Professor of Music

Ph.D., 2013, University of Southern California
Jason Ryan, 2011
Professor of Marketing

B.A. 1995, Swarthmore College
M.B.A. 2000, Washington University
A.M. 2002, Washington University
Ph.D. 2007, University College Dublin
Amanda Rymal, 2014
Assistant Professor of Kinesiology

B.A. 2005, Laurentian University, Ontario
M.A. 2007, Ph.D. 2011, University of Ottawa
Michael Salvador
Communication Studies, Chair

Michael Salvador, 2012
Professor of Communication Studies, Chair

Ph.D., University of Utah, 1989
Richard Samuelson, 2007
Associate Professor of History

B.A. 1992, Bates College
M.A. 1995, Ph.D. 2000, University of Virginia
Pedro Santoni, 1988
Professor of History

B.A. 1978, University of Notre Dame
J.D. 1981, University of Puerto Rico
Ph.D. 1987, El Colegio de Mexico

John Sarli, 1983
Professor of Mathematics

A.B. 1974, Brown University
Ph.D. 1984, University of California, Santa Cruz

Ghulam Sarwar, 2006
Professor of Accounting and Finance

B.S. 1980, University of Faisalabad
M.S. 1984, University of Philippines
Ph.D. 1989, University of Nebraska, Lincoln
Ph.D. 1997, Oklahoma State University

Richard Savich, 2005
Associate Professor of Accounting and Finance

B.S. 1964, M.S. 1967, Northern Illinois University
Ph.D. 1973, University of Illinois

Joseph A. Scarcella, 1998
Professor of Education

Ph.D. 1997, University of Missouri-Columbia

Terry Schmitt, 2006
Student Services Professional in Student Health Center

B.A. 1972, M.A. 1974, Ph.D. 1978, University of California, Riverside

Donna L. Schnorr, 1998
Professor of Education

B.A. 1984, Flagler College
M.A. 1986, Boston University
Ph.D. 1998, George Mason University

Andrea Schoepfer, 2007
Associate Professor of Criminal Justice


Pamela J. Schram, 1998
Professor of Criminal Justice

B.S. 1988, Loyola University of Chicago
M.A. 1990, Rutgers University
Ph.D. 1996, Michigan State University

Cynthia Schreihans, 2006
Lecturer in Management

B.A. 1998, M.B.A. 2000, California State University, San Bernardino

Craig Seal, 2011
Associate Professor of Management

B.A. 1991, Santa Clara University
M.A. 1995, Boston College
Ph.D. 2007, George Washington University

Victoria A. Seitz, 1991
Professor of Marketing, Chair

B.S. 1978, Kansas State University
M.S. 1984, Ph.D. 1987, Oklahoma State University

David Senteney, 2014
Associate Professor of Accounting and Finance

B.S. 1980, Eastern Illinois University
M.A.S. 1983, Ph.D. 1987, University Of Illinois, Urbana-Champaign

Lisa Shamansky, 1989
Professor of Chemistry and Biochemistry

B.S. 1980, Indiana University, Bloomington
Ph.D. 1986, University of Illinois, Urbana

Conrad Shayo, 1994
Professor of Information and Decision Sciences

B. of Commerce 1981, University of Dar-Es-Salaam, Tanzania
M.B.A. 1985, University of Nairobi, Kenya
Ph.D. 1995, Claremont Graduate University

Donna Shea, 2006
Lecturer in Education

B.A. 1998, M.A. 2000, California State University, San Bernardino

Astrid Sheil, 2008
Associate Professor of Communication Studies, Interim Chair Accounting and Finance

B.S. 1977, Georgetown University
M.S. 1998, University of Tennessee
Ph.D. 2003, University of Tennessee

Herbert P. Shon, 2004
Assistant Professor of Social Work

B.A. 1987, California State University, Los Angeles

Kenneth S. Shultz, 1992
Professor of Psychology

B.A. 1984, State University of New York, College at Potsdam
M.A. 1987, Ph.D. 1992, Wayne State University

Shannon R. Siegel, 2005
Associate Professor of Kinesiology

B.A. 1989, University of California, Santa Cruz
M.A. 1995, University of Texas, Austin
Ph.D. 1999, Michigan State University

Brent Singleton, 2002
Senior Associate Librarian


Barbara Sirotnik, 1980
Professor of Information and Decision Sciences

A.B., B.S. 1973, M.S. 1979, Ph.D. 1980, University of California, Riverside

John Skillman, 1998
Professor of Biology

B.S. 1988, Oregon State University
Ph.D. 1994, Duke University

Alan L. Smith, 2000
Professor of Geological Sciences, Chair

B.Sc. 1963, University of London (Kings College)
Ph.D. 1968, University of California, Berkeley

Douglas C. Smith, 1995
Professor of Chemistry and Biochemistry

B.A. 1988, Wittenburg University, Ohio
Ph.D. 1994, Purdue University

Johanna L. Smith, 2000
Professor of Theatre Arts

B.A. 1994, Miami University, Ohio
M.F.A. 1998, Arizona State University

Jonathan Smith, 2011
Senior Assistant Librarian

M.S.L.S. 2007, The Catholic University of America

Laurie Smith, 2002
Professor of Social Work, Director

B.A. 1980, Michigan State University
M.S.W. 1990, University of Minnesota
Ph.D. 1999, University of California, Los Angeles

Terry D. Smith, 2006
Professor of Theatre Arts

B.F.A. 1974, Virginia Commonwealth University, Richmond
M.A. 1993, California State University, Northridge
Ph.D. 1996, University of Washington, Seattle

Wendy Smith, 1989
Professor of English

B.A. 1973, M.A. 1978, San Francisco State University
Ph.D. 1990, University of California, Los Angeles

Marilyn Smith-Stoner, 2006
Professor of Nursing

B.S.N. 1989, M.S.M. 1995, California State University, Dominguez Hills
Ph.D. 2000, California Institute of Integral Studies

Hosung So, 2002
Professor of Kinesiology

B.S. 1993, M.S. 1995, Chug-Ang University, Seoul Korea
Ph.D. 2002, University of Nevada, Las Vegas

Joon Son, 2012
Assistant Professor of Information and Decision Sciences

Ph.D., University of Idaho, 2008

Eva Marie Sorrell, 2005
Senior Associate Librarian

B.A. 1995, University of California, Riverside
M.L.I.S. 2001, University of California, Los Angeles

Brad Spence, 2006
Assistant Professor of Art

B.A. 1990, University of Florida
M.F.A. 1996, California Institute of the Arts

Catherine E. Spencer, 2000
Lecturer in Education

B.A. 1983, California State University, Fullerton
M.A. 1998, California State University, San Bernardino
Ph.D. 2007, University of California, Riverside

Paula Spencer, 2007
Lecturer in Nursing

B.S.N. 2004, Brigham Young University

Brett J. Stanley, 1994
Professor of Chemistry and Biochemistry, Chair

B.S. 1987, University of Pittsburgh
Ph.D. 1992, Utah State University

Charles S. Stanton, 1987
Professor of Mathematics

A.B. 1977, University of California, Berkeley
M.A. 1980, Ph.D. 1982, University of Wisconsin, Madison

Beth Steffel, 2007
Assistant Professor of Art

B.F.A. 2004, University of Akron
M.F.A. 2006, University of Cincinnati

Daniel Stewart, 2013
Lecturer in Education

Ph.D., 2012, Universidad Central de Nicaragua

Walter T Stewart, Jr., 1984
Professor of Information and Decision Sciences

B.A. 1976, M.A. 1979, Brigham Young University
Ph.D. 1984, Ohio University

Deborah E. Stine, 1999
Professor of Education

B.A. 1969, Lake Erie College
M.Ed. Lynchburg College
M.A. 1993, California State University, San Bernardino
Ph.D. 1999, University of California, Riverside

Rachel Strydom, 2012
Lecturer in Social Work

B.A. 2009, M.F.A. 2011 California State University, San Bernardino

Michael Stull, 2006
Professor of Management, Chair

B.A. 1988, M.B.A. 1989, California State University, San Bernardino
EDM 2005, Case Western Reserve University

Stuart S. Sumida, 1992
Professor of Biology


Hua Sun, 2008
Associate Professor of Accounting and Finance

B.A. 1999, Nankai University
M.S.C. 2003, National University of Singapore
Ph.D. Expected, University of British Columbia

Dianne Swanson, 2012
Student Services Professional

M.S. California State University, San Bernardino, 2002

Stanley L. Swartz, 1989
Professor of Education

A.B. 1970, Findlay College
M.Ed. 1972, Ph.D. 1976, Bowling Green State University

Dwight P. Sweeney, 1990
Professor of Education

Interim Chair Nursing

A.B. 1970, University of Notre Dame
M.A. 1971, Ph.D. 1981, University of Michigan

J. Chad Sweeney, 2011
Assistant Professor of English

B.A. 1993, University of Oklahoma Norman Campus
M.F.A. 2006, California State University, San Francisco
Ph.D. 2011, Western Michigan University

Judith Sylva, 2006
Professor of Education

B.A. 1992, University of California, Irvine
Ph.D. 1999, University of California, Riverside

Asma Taha, 2010
Associate Professor of Nursing

B.S.N. 1989, Jordan University
M.S.N. 2004, Ph.D. 2009, Azusa Pacific University

Jeff Andreas Tan, 2008
Student Services Professional

B.A. 1996, University of California, San Diego
M.S. 2004, Ph.D. 2005, University of Missouri

John Tate, 1989
Associate Professor of Chemistry and Biochemistry

B.Sc. 1979, Ph.D. 1982, University of Sheffield, England

Stanley Taylor, 2008
Assistant Professor of Social Work


Mary Texeira, 1994
Professor of Sociology


Jeffrey M. Thompson, 1988
Professor of Biology

Associate Provost of Research

B.S. 1972, Michigan State University
Ph.D. 1976, Florida State University

Stephen G. Tibbetts, 2000
Professor of Criminal Justice

B.A. 1991, University of Florida
M.A. 1994, Ph.D. 1997, University of Maryland

Kathyrne Tiras, 2012
Lecturer in Nursing

MSN, Loma Linda University, 2009

Javier Torner, 1985
Professor of Physics

Director

B.S. 1978, J.P.M. Mexico
M.S. 1972, Ph.D. 1985, Illinois Institute of Technology

Nena M. Torrez, 1996
Professor of Education

A.B. 1972, University of California, Berkeley
J.D. 1975, California Western School of Law
M.A. 1980, California State University, Dominguez Hills
Ph.D. 1988, Claremont College

Mayo Toruño, 1983
Professor of Economics, Chair

B.A. 1974, B.A. 1975, M.A. 1976, California State University, Los Angeles
M.A. 1979, Ph.D. 1983, University of California, Riverside.

Rolland Trapp, 1994
Professor of Mathematics

B.A. 1984, Knox College
M.A. 1985, Ph.D. 1990, Columbia University

David A. Turner, 2001
Professor of Computer Science and Engineering

B.S. 1980, Wichita State University
M.S. 1983, University of Massachusetts
Ph.D. 2001, Institute Eurecom, Sophia Antipolis, France

Jodie B. Ullman, 1996
Professor of Psychology


Timothy D. Usher, 1990
Professor of Physics

B.S. 1981, Appalachian State University
Ph.D. 1990, University of South Carolina

Elsa O. Valdez, 1993
Professor of Sociology

Maiyoua Vang, 2014
Assistant Professor of Education

Montgomery VanWart, 2005
Professor of Public Administration
B.A. 1973, Franklin College, PA
M.A. 1981, Lewis and Clark College
Ph.D. 1990, Arizona State University

Javad Varzandeh, 1987
Professor of Information and Decision Sciences
B.S. 1974, National University, Iran
M.S. 1976, St. Mary’s University
Ph.D. 1981, Oklahoma State University

Jill Vassilakos-Long, 1999
Senior Librarian
B.A. 1990, Stanford
M.L.S. 1992, San Jose State University

Teresa Velasquez, 2012
Assistant Professor of Anthropology
Ph.D., University of Texas at Austin, 2012

Belisario Ventura, 1989
Professor of Mathematics
Licen. 1976, University of del Valle, Guatemala
M.A. 1978, Ph.D. 1984, University of California, Berkeley

Michael Verdi, 2001
Professor of Education
B.S. 1985, University of Notre Dame
M.S. 1986, Northwestern University
Ph.D. 1994, Arizona State University

Angie Verissimo, 2014
Assistant Professor of Health Science
B.A. 2005, University of Redlands
M.P.H. 2007, Ph.D. 2011, University of California, Los Angeles

Caroline H. Vickers, 2004
Professor of English
B.A. 1994, University of Georgia
M.S. 1997, Georgetown University
Ph.D. 2004, University of Arizona

J. Paul Vicknair, 1982
Professor of Mathematics

Kerstin Voigt, 1994
Professor of Computer Science and Engineering, Director
Vordiplom 1981, Johann-Wolfgang-Goethe University of Frankfurt, Germany
M.S. 1984, Ph.D. 1994, Rutgers University

Laura J. Wallace, 2000
Professor of Mathematics
B.A. 1991, California State Polytechnic University, Pomona
M.S. 1992, Ph.D. 1998, University of California, Riverside

Wenxiang Wang, 1994
Professor of Mathematics
B.A. 1982, Tsinghua University, Beijing, China
M.A. 1984, Ph.D. 1988, Princeton University

Sharon L. Ward, 1999
Professor of Psychology
B.A. 1993, California State University, San Bernardino
Ph.D. 1998, University of California, Riverside

Douglas Weiss, 2014
Assistant Professor of Criminal Justice
B.S. 2002, Illinois Institute of Technology
M.A. 2008, University of Southern Carolina

Joseph Wellman, 2014
Assistant Professor of Psychology

Dudley J. Wiest, 1993
Professor of Education
B.S. 1979, Concordia College
M.A. 1983, California State University, Northridge
Ph.D. 1982, Claremont Graduate University

Kimberlyn Williams, 2001
Professor of Biology
B.A. 1979, University of California, Davis
Ph.D. 1987, Stanford University

Peter D. Williams, 1983
Professor of Mathematics, Chair
B.S. 1979, Ph.D. 1983, University of St. Andrews, Scotland

Anna Wilson, 2011
Lecturer in Nursing
B.S.N. 1997, M.S.N. 1999, University of Phoenix

Doris Wilson, 2008
Associate Professor of Education
B.S. 1964, Southwest Missouri State University
M.S. 1971, Azusa Pacific College
Ed.D. 1975, University of Southern California
John M. Winslade, 2003
Professor of Education
B.A. 1973, M.A. 1990, University of Auckland
Ph.D. 2003, University of Maikato
Aurora Wolfgang, 1992
Professor of World Languages and Literatures
B.A. 1984, University of California, Santa Cruz
M.A. 1986, Ph.D. 1993, New York University
Eugene H. Wong, 1994
Professor of Psychology
B.A. 1986, University of California, Los Angeles
M.A. 1989, Ph.D. 1991, University of California, Riverside
Laura M. Woodney, 2005
Associate Professor of Physics
B.A. 1993, John Hopkins University
M.S. 1997, Ph.D. 2000, University of Maryland
Randall L. Wright, 2003
Professor of Education
Ph.D. 2001, University of Calgary
Bo Xu, 2008
Associate Professor of Geography and Environmental Sciences
B.S. 1998, Beijing Normal University
M.S. 2001, East China Normal University
M.S. 2007, Ph.D. 2008, University of Georgia
David N. Yaghoubian, 2003
Professor of History
B.A. 1989, University of California, Santa Cruz
M.A. 1994, Ph.D. 2000, University of California, Berkeley
Shumei Yang, 1997
Professor of Chemistry and Biochemistry
B.S. 1982, Zhengzhou University, P.R. China
Ph.D. 1991, Iowa State University
Taewon Yang, 2002
Associate Professor of Accounting and Finance
B.S. 1993, Hankuk Aviation University
M.B.A. 1996, Ohio State University
Ph.D. 2002, University of Massachusetts
King-To Yeung, 2014
Assistant Professor of Sociology
B.A. 1996, University of Guam
M.A. 1998, Texas Tech University
Ph.D. 2007, Rutgers University
Xinying Yin, 2013
Assistant Professor of Education
Ph.D., 2013, Indiana University - Bloomington
Laura H. Young, 1995
Associate Professor of Education
Salaam Y. Yousif, 1991
Professor of English, Associate Dean
B.A. 1969, University of Baghdad
M.A. 1980, Oklahoma State University
Ph.D. 1988, University of Iowa
Tong L. Yu, 1986
Professor of Computer Science and Engineering
B.S. 1977, Chinese University of Hong Kong
M.S.E. 1982, Ph.D. 1986, Johns Hopkins University
Kay Zemoudeh, 1990
Professor of Computer Science and Engineering
B.S. 1981, M.S. 1984, University of Southwestern Louisiana
Ph.D. 1990, University of South Carolina
Scot J. Zentner, 1993
Professor of Political Science
B.A. 1988, California State University, San Bernardino
Renwu Zhang, 2011
Assistant Professor of Chemistry
B.S. 1988, Anhui Normal University
M.S. 1993, University of Science China
Ph.D. 2002, University of Missouri
Xiwen Zhang, 1995
Librarian
B.A. 1971, Beijing University
M.A. 1987, University of California, Santa Barbara
M.L.S. 1994, University of California, Los Angeles
Jun (Jake) Zhu, 2002
Professor of Information and Decision Sciences, Chair
B.A. 1988, Hunan Educational Institute, China
M.A. 1991, University of Redlands
Ph.D. 1997, University of California, Riverside
Jenny Zorn, 1989
Professor of Geography and Environmental Studies
Associate Provost
B.A. 1980, Flagler College
M.A. 1982, Ph.D. 1990, Ohio State University
Emeriti
Richard T. Ackley
Professor, Political Science. Emeritus, 1990
William Aguilar
Faculty, Emeritus, 2010
Carolyn B. Aldana
Professor, Economics. Emeritus, 2008
Gene L. Andrusco
Associate Professor, Accounting. Emeritus, 2002
Patricia Arlin
Emeritus, 2011
Elliott R. Barkan
Professor, History. Emeritus, 2002
Buckley B. Barrett
Librarian, Emeritus, 2008
Joe Bas
Professor, Management. Emeritus, 2010
G. R. Bassiry
Professor, Management. Emeritus, 2010
Frank Benson
Professor, Accounting. Emeritus, 2001
Jacques Benzakein
Professor, World Languages. Emeritus, 2006
Frances F. Berdan
Professor, Anthropology. Emeritus, 2010
Anand Bhatia
Assistant Professor, Information. Emeritus, 2001
Cynthia Bird
Professor, Accounting. Emeritus, 2004
Robert A. Blackey
Professor, History. Emeritus, 2013
Marty Bloomberg
Librarian, Emeritus, 1994
Sheldon E. Bockman
Professor, Management. Emeritus, 2013
Sarah Boeh
Associate Professor, Kinesiology. Emeritus, 2010
Aubrey Bonnett
Emeritus, 1994
Mike Boorom
Professor, Marketing. Emeritus, 2000
Edward J. Bostley
Professor, Music. Emeritus, 2003
Richard J. Botting
Professor, Computer Science. Emeritus, 2013
David Bourquin
Librarian, Emeritus, 2004
Karen Bowerman
Emeritus, 2011
Klaus Brasch
Professor, Biology. Emeritus, 2006
Susan J. Brotherton
Professor, Education. Emeritus, 2013
Herbert K. Brunkhorst
Professor, Education. Emeritus, 2012
Bonnie Brunkhorst
Professor, Education. Emeritus, 2011
Michael R. Burgess
Librarian, Emeritus, 2005
Katharine Busch
Associate Professor, Education. Emeritus, 1998
Renate Caine
Professor, Education. Emeritus, 2011
B. Robert Carlson
Dean, Emeritus, 2011
Sybil Carrere
Professor, Psychology. Emeritus, 2012
John S. Chaney
Professor, Management. Emeritus, 2003
Otto Chang
Professor, Public Administration. Emeritus, 2004
Ralph James Charkins
Professor, Economics. Emeritus, 2012
C. Charles Christie
Professor, Public Administration. Emeritus, 2004
Michael Clarke
Professor, Public Administration. Emeritus, 2006
Frances Coles
Professor, Criminal Justice. Emeritus, 2006
John A. Conley
Emeritus, 2007
Leo P. Connelly
Professor, Physics. Emeritus, 2010
Margaret H. Cooney
Professor, Education. Emeritus, 2010
Gloria A. Cowan
Professor, Psychology. Emeritus, 2002
John H. Craig
Professor, Chemistry. Emeritus, 2005
Robert Cramer
Professor, Psychology. Emeritus, 2011
Samuel M. Crowell
Professor, Education. Emeritus, 2011
James D. Crum
Emeritus, 1992

David L. Decker
Professor, Sociology. Emeritus, 2005

Esteban Diaz
Professor, Education. Emeritus, 1991

G. Keith Dolan
Professor, Education. Emeritus, 1991

Leo G. Doyle
Professor, Art. Emeritus, 1971

Richard Eberst
Professor, Health Science. Emeritus, 2004

Stuart Ellins
Professor, Psychology. Emeritus, 2004

Edward J. Erler
Professor, History. Emeritus, 2004

Daniel F. Fahey
Professor, Health Science. Emeritus, 2012

Bertram Fairchild, Jr.
Professor, English. Emeritus, 2005

Louis A. Fernández
Professor, Geological Sciences. Emeritus, 2009

Lanny B. Fields
Professor, History. Emeritus, 2004

Loren Filbeck
Professor, Music. Emeritus, 2004

Susan M. Finsen
Professor, Philosophy. Emeritus, 2009

Cheryl F. Fischer
Professor, Education. Emeritus, 2006

Robert G. Fisk
Professor, Education. Emeritus, 1973

Jerry Freischlag
Professor, Kinesiology. Emeritus, 2001

Louise Fulton
Professor, Education. Emeritus, 2001

Ernest Garcia
Professor, Education. Emeritus, 1990

Rosalie Giacchino-Baker
Professor, Education. Emeritus, 2012

Margaret K. Gibbs
Professor, Administration. Emeritus, 1980

Morley Glicken
Professor, Social Work. Emeritus, 2000

Bruce Golden
Professor, English. Emeritus, 2004

Mirta A. Gonzalez
Professor, World Languages. Emeritus, 2006

Carol F. Goss
Professor, Political Science. Emeritus, 1988

Joseph W. Gray
Associate Professor, Education. Emeritus, 2000

Sue Greenfeld
Professor, Management. Emeritus, 2005

Christopher C. Grenfell
Professor, Kinesiology. Emeritus, 2010

Richard Griffiths
Professor, Education. Emeritus, 2000

Jeffrey D. Hackel
Professor, Geography. Emeritus, 2011

Joan T. Hallett
Professor, Mathematics. Emeritus, 2006

Diane F. Halpern
Professor, Psychology. Emeritus, 2001

Lee W. Hanson
Emeritus, 2011

Dalton Harrington
Professor, Biology. Emeritus, 1994

Robert R. Harrison
Professor, Art. Emeritus, 1972

Charles V. Hartung
Associate Professor, English. Emeritus, 1977

Carol P. Haviland
Professor, English. Emeritus, 2009

Melvin G. Hawkins
Professor, Social Work. Emeritus, 1992

Frederick Hebein
Student Services Professional, Marketing. Emeritus, 2004

John Heeren
Professor, Sociology. Emeritus, 2007

Beverly L. Hendricks
Emeritus, 2000

Linvol Henry
Professor, Accounting. Emeritus, 2004

Mildred M. Henry
Professor, Education. Emeritus, 1983

Jose S. Hernandez
Professor, Education. Emeritus, 2009

Philip L. Herold
Associate Professor, Psychology. Emeritus, 1992

Charles D. Hoffman
Professor, Psychology. Emeritus, 2008
Irvin Howard
Professor, Education. Emeritus, 2004
Sherry M. Howie
Professor, Education. Emeritus, 2003
Dennis Ikenberry
Professor, Computer Science. Emeritus, 2000
Harold A. Jambor
Lecturer, Sociology. Emeritus, 1980
Jotindar S. Johar
Professor, Marketing. Emeritus, 2010
Kenneth Johns
Professor, Education. Emeritus, 2004
Jorun Johns
Professor, World Languages. Emeritus, 2000
Dorothy Johnson
Professor, Nursing. Emeritus, 1983
Paul J. Johnson
Professor, Philosophy. Emeritus, 1994
Marshall Jung
Professor, Social Work. Emeritus, 2000
Lee H. Kalbus
Professor, Chemistry. Emeritus, 1994
Julius D. Kaplan
Professor, Art. Emeritus, 2003
Albert K. Karnig
Professor, Political Science. Emeritus, 2012
Martha Kazlo
Emeritus, 2004
Sant K. Khalsa
Professor, Art. Emeritus, 2013
Rauf A. Khan
Professor, Accounting. Emeritus, 2001
Brij B. Khare
Professor, Political Science. Emeritus, 1999
Nikolai E. Khokhlov
Professor, Psychology. Emeritus, 1992
Jeanne King
Professor, Management. Emeritus, 2007
Adria Klein
Professor, Education. Emeritus, 2000
Barry Knight
Professor, Accounting. Emeritus, 2000
Nathan Kravetz
Professor, Education. Emeritus, 1985
Guenther G. Kress
Professor, Public Administration. Emeritus, 2005
Joan Kritzberg
Professor, Management. Emeritus, 2000
Ellen Kronowitz
Professor, Education. Emeritus, 2004
Kevin Lamude
Professor, Communication Studies. Emeritus, 2004
Kenneth E. Lane
Professor, Education. Emeritus, 2006
Barbara D. Larrivee
Professor, Education. Emeritus, 2011
Robin Larsen
Professor, Communication Studies. Emeritus, 2010
Janice Layton
Professor, Nursing. Emeritus, 2000
Lynne Leach
Professor, Nursing. Emeritus, 2011
Robert A. Lee
Professor, English. Emeritus, 1992
Michael LeMay
Professor, Political Science. Emeritus, 2004
Steven M. Levy
Professor, Management. Emeritus, 2000
Eldon Lewis
Professor, Accounting. Emeritus, 2001
Richard Lillie
Associate Professor, Accounting. Emeritus, 2013
Roger Lintault
Professor, Art. Emeritus, 2000
Janice Loutzenhiser
Associate Professor, Management. Emeritus, 2008
Joseph E. Lovett
Professor, Health Science. Emeritus, 2006
Lee A. Lyons
Professor, Theatre Arts. Emeritus, 2008
Loralee MacPike
Professor, English. Emeritus, 1997
Sarojam Mankau
Professor, Biology. Emeritus, 1994
Kenneth A. Mantei
Professor, Chemistry. Emeritus, 2005
Norton E. Marks
Professor, Marketing. Emeritus, 2005
Carolyn Martin
Richard Moss
Professor, Education. Emeritus, 2002

T. Patrick Mullen
Professor, Education. Emeritus, 2002

James Mulvihill
Professor, Geography. Emeritus, 2007

Art Nelson
Librarian, Emeritus, 1991

Frederick A. Newton
Professor, Psychology. Emeritus, 2005

Ruth A. Norton
Professor, Education. Emeritus, 2010

David H. Null
Professor, Physical Education. Emeritus, 1977

C. Michael O’Gara
Professor, Kinesiology. Emeritus, 1977

James S. Okon
Professor, Mathematics. Emeritus, 2012

Shari Oliver
Student Services Professional, Emeritus, 2006

Walter Oliver
Emeritus, 2001

Theron Pace
Professor, English. Emeritus, 2006

E. Phillip Page
Professor, English. Emeritus, 2006

Elinore H. Partridge
Associate Professor, English. Emeritus, 2003

Mary G. Patterson
Professor, Nursing. Emeritus, 1985

Gordon Patzer
Professor, Accounting. Emeritus, 2004

Cynthia Paxton
Professor, Health Science. Emeritus, 2007

Clifford T. Paynton
Professor, Sociology. Emeritus, 1992

M. Jean Peacock
Professor, Psychology. Emeritus, 2013

Lloyd E. Peake
Professor, Management. Emeritus, 2010

Dennis M. Pederson
Professor, Chemistry. Emeritus, 2010

Stuart M. Persell
Professor, History. Emeritus, 2002

John M. Pfau
Professor, History. Emeritus, 1982
James C. Pierson
Professor, Anthropology. Emeritus, 2005
Bonnie J. Piller
Associate Professor, Education. Emeritus, 2012
Lee Porter
Dean, Extended Education. Emeritus, 1998
Chetan Prakash
Professor, Mathematics. Emeritus, 2013
Gregory L. Price
Professor, Kinesiology. Emeritus, 2009
Reginald Price
Professor, Kinesiology. Emeritus, 2005
Jerrold Pritchard
Professor, Music. Emeritus, 2004
Johnnie Ann Ralph
Emeritus, 2007
Nabil Y. Razzouk
Professor, Marketing. Emeritus, 2011
Cheryl A. Riggs
Professor, History. Emeritus, 2013
James Rogers
Professor, Management. Emeritus, 2001
C.E. Tapie Rohm, Jr.
Professor, Information. Emeritus, 2012
Nancy E. Rose
Professor, Economics. Emeritus, 2010
Richard Rowland
Professor, Geography. Emeritus, 2007
Amanda Sue Rudisill
Professor, Theatre Arts. Emeritus, 1997
Mireille G. Rydell
Professor, World Languages. Emeritus, 1988
Elisabeth Ryland
Professor, Management. Emeritus, 2007
Judith M. Rymer
Professor, Education. Emeritus, 2002
Ralph Salmi
Professor, Political Science. Emeritus, 2007
Arthur Saltzman
Professor, Marketing. Emeritus, 2000
Ruth A. Sandlin
Professor, Education. Emeritus, 2012
Rowena Santiago
Professor, Education. Emeritus, 2011
Christine Schalow
Professor, Management. Emeritus, 2007
David Schalow
Professor, Accounting. Emeritus, 2007
Ed Schneiderhan
Student Services Professional. Emeritus, 2005
Kent Schofield
Professor, History. Emeritus, 2001
Peter R. Schroeder
Professor, English. Emeritus, 2003
John Scribner
Professor, Accounting. Emeritus, 2004
Robert Senour
Professor, Education. Emeritus, 2000
Billie P. Sessions
Professor, Art. Emeritus, 2008
Hossein Shalchi
Professor, Kinesiology. Emeritus, 2010
Gary Sherwin
Associate Professor, Education. Emeritus, 2010
David Shichor
Professor, Criminal Justice. Emeritus, 1997
A.I. Clifford Singh
Professor, Kinesiology. Emeritus, 2010
Mary Jo Skillings
Professor, Education. Emeritus, 2010
William L. Slout
Professor, Theatre Arts. Emeritus, 1992
Alexander Sokoloff
Professor, Biology. Emeritus, 1990
Sue A. Spitzer
Associate Professor, Education. Emeritus, 2013
Geraldine B. Stahly
Professor, Psychology. Emeritus, 2013
Gordon E. Stanton
Professor, Education. Emeritus, 1988
Helena Villacres Stanton
Associate Professor, Education. Emeritus, 1990
Robert G. Stein
Professor, Mathematics. Emeritus, 2004
David Stine
Professor, Education. Emeritus, 2001
Darleen K. Stoner
Professor, Education. Emeritus, 2008
Dolores Tanno
Professor, Communication Studies. Emeritus, 2000
Faith H. Teyber
Professor, Psychology. Emeritus, 2013
Edward C. Teyber
Professor, Psychology. Emeritus, 2013
James D. Thomas
Professor, Political Science. Emeritus, 1990
Elton N. Thompson
Professor, Education. Emeritus, 1983
Kenneth Thygerson
Professor, Accounting. Emeritus, 2000
John Tibbals
Librarian, Emeritus, 1999
Thomas C. Timmreck
Professor, Health Science. Emeritus, 2003
Arthur J. Townley
Professor, Education. Emeritus, 1999
Michael Trubnick
Associate Professor, Accounting. Emeritus, 2003
Joseph Turpin
Professor, Education. Emeritus, 2013
Mohamad T. Vaziri
Professor, Accounting. Emeritus, 2013
Steven R. Wagner
Associate Professor, Education. Emeritus, 1997
William Warehall
Professor, Art. Emeritus, 1999
Del LaVerne Watson
Professor, Nursing. Emeritus, 1989
Brian Watts
Professor, Public Administration. Emeritus, 2004
Michael Weiss
Professor, Accounting. Emeritus, 2004
L. Curtis Westbrook, Jr.
Professor, Accounting. Emeritus, 2004
Daniel Whitaker
Professor, World Languages. Emeritus, 2006
Edward M. White
Professor, English. Emeritus, 1996
Linda D. Wilkin
Associate Professor, Kinesiology. Emeritus, 2011
Franklin P. Williams III
Professor, Criminal Justice. Emeritus, 2000
Robert D. Wilson
Professor, Information. Emeritus, 2012
Ruth Wilson
Professor, Biology. Emeritus, 2001
Janet Woerner
Professor, Education. Emeritus, 2007
Alvin Wolf
Professor, Education. Emeritus, 2002
Don Woodford
Professor, Art. Emeritus, 2001
Joanna Worthley
Professor, Psychology. Emeritus, 2010
Eri F. Yasuhara
Dean Emeritus, World Languages. Emeritus, 2013
Clifford Young
Professor, Public Administration. Emeritus, 2011
Donna M. Ziebarth
Associate Professor, Nursing. Emeritus, 1994

Special Appointments
Jocelyn Hua-Chen Chang, 2010
Studio Music Instructor
D.M.A. 2009, University of Southern California
Mary Dropkin, 2008
Studio Music Instructor
B.M. 1973, University of Southern California
Stuart C. Green, 1998
Studio Music Instructor
B.M. 1994, M.M. 1997, University of Redlands
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
BM Ed. 1961, University of Arizona
M.M. 1962, Mount St. Mary's College
Rebecca Tomlinson, 2004
Studio Music Instructor

B.M. 1996, University of Redlands
M.M. 2000, D.M.A. 2003, University of California, Los Angeles

Lisa Geering Tomoff, 2005
Studio Music Instructor

B.M., Indiana University School of Music

Jon Usher, 2000
Studio Music Instructor

B.M., M.M., University of Redlands, D.M.A. 2012, Claremont Graduate University

Scott Vance, 1990
Studio Music Instructor

B.M. 1975, M.M. 1981, University of Redlands
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College of Arts and Letters

College of Arts and Letters

Terry Ballman, Dean
Salaam Yousif, Associate Dean

University Hall, Room 237
(909) 537-5800 College of Arts and Letters (http://artsletters.csusb.edu)

Departments

- Art (http://art.csusb.edu)
- Communication Studies (http://communication.csusb.edu)
- English (http://english.csusb.edu)
- Music (http://music.csusb.edu)
- Philosophy (http://philosophy.csusb.edu)
- Theatre Arts (http://theatre.csusb.edu)
- World Languages and Literatures (http://flan.csusb.edu)
- Office of Liberal Studies (http://liberalstudies.csusb.edu)

Bachelor of Arts

American Studies

Minor

- Latin American Studies

Undergraduate Degrees

Bachelor of Arts

- American Studies (p. 172)
  Coordinator: David Carlson

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 should consult either multiple subject (p. 498) or a single subject (p. 511) credential information in the College of Education (p. 426) section of the catalog.

Minor

- Minor in Latin American Studies (p. 174)
  Coordinator: Carmen Jany

Courses

HUM 180. The Art of Film. 4 Units.
(GE=C1)
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.

HUM 197. Assessment Preparation I in Liberal Studies. 1 Unit.
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.

HUM 306. Expository Writing for the Humanities. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit (GE=F1)
Writing related to the humanities including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit.
Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly HUM 495. Graded A, B, C/no credit.

HUM 319. Myth, Metaphor and Symbol. 4 Units.
Prerequisites: junior or senior standing (GE=C5)
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.

HUM 325. Perspectives on Gender. 4 Units.
Prerequisites: junior or senior standing (GE=C5, G1)
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.)

HUM 328. Asian Cultural Traditions. 4 Units.
Prerequisites: junior or senior standing (GE=C5)
Cultural issues in Asia, such as religion and philosophy, literature, the arts and expressive traditions, as well as gender and identity.

HUM 330. Arts and Ideas. 4 Units.
Prerequisites: junior or senior standing (GE=C5)
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.
HUM 335. The Origin and Contemporary Role of Latino Culture. 4 Units.
Prerequisites: junior or senior standing
(GE=C5, G1)
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.

HUM 340. Interpretation and Values. 4 Units.
Prerequisites: junior or senior standing
(GE=C5)
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.

HUM 344. Ideas in American Culture. 4 Units.
Prerequisites: junior or senior standing
(GE=C5)
An examination of recurring ideas in American culture, from Colonial times to the present, as seen in literature, art and thought.

HUM 350. The Culture of American Childhood. 4 Units.
Prerequisites: junior or senior standing
(GE=C5, G1)
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.

HUM 370. African Heritage in the Arts. 4 Units.
Prerequisites: junior or senior standing
(GE=C5, G1)
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.

HUM 375. The World of Islam. 4 Units.
Prerequisites: junior or senior standing
(GE=C5, G1)
Exploration of Islam as a religion, a philosophy and value system, indeed, as a way of life in a variety of cultures, totaling more than one billion people around the globe, including the arts and literature as well as theological, philosophical, and social perspectives.

HUM 380. Comparative Studies in the Arts: East and West. 4 Units.
Prerequisites: junior or senior standing
(GE=C5, G1)
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.

HUM 385. A Cultural History of Fashion. 4 Units.
Prerequisites: junior or senior standing
(GE=C5)
The history of clothing and its relation to other arts as a form of self-expression within shifting sociocultural circumstances.

HUM 397. Assessment Preparation II in Liberal Studies. 1 Unit.
Prerequisites: HUM 197 and completion of at least 90 units in the B.A. 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.

HUM 425. Integrative Seminar in Asian Studies. 4 Units.
Advanced interdisciplinary and integrative study of issues in Asian philosophy, literature, the arts and other aspects of culture.

HUM 450. Aspects of Chicana/o Culture. 4 Units.
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.

HUM 460. Cultural Studies. 4 Units.
(GE=G2)
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.

HUM 496. Selected Topics in Humanities. 4 Units.
Seminar in special topics chosen from arts or humanities. May be repeated for credit as topics change.

HUM 497. Senior Assessment. 1 Unit.
Prerequisites: senior standing
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.

HUM 499A. Methods and Materials in the Teaching of Humanities: Art. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
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.

HUM 499B. Methods and Materials in the Teaching of Humanities: Foreign Languages. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
Foreign LanguagesIntegration 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.
HUM 499C. Methods and Materials in the Teaching of Humanities: English. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
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.

HUM 499D. Methods and Materials in the Teaching of Humanities: Music. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
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.

HUM 499E. Methods and Materials in the Teaching of Humanities: Theatre Arts. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
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.

HUM 499F. Methods and Materials in the Teaching of Humanities: Humanities. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program
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.

HUM 500A. Current Ideas and Issues in Latin America. 4 Units.
Prerequisites: consent of instructor or completion of 16 units of interdisciplinary studies or Latin American Studies Minor. Taught in English
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.

HUM 500B. Current Ideas and Issues in Latin America. 4 Units.
Prerequisites: consent of instructor or completion of 16 units of interdisciplinary studies or Latin American Studies Minor. Taught in Spanish
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.
HUM 576A. International Experience: Latin American Studies. 1 Unit.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 576B. International Experience: Latin American Studies. 2 Units.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 576C. International Experience: Latin American Studies. 3 Units.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 576D. International Experience: Latin American Studies. 4 Units.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 576E. International Experience: Latin American Studies. 5 Units.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 576F. International Experience: Latin American Studies. 6 Units.
Prerequisites: junior standing or consent of instructor
Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit.
(1-6 units).

HUM 577A. International Experience: Spanish. 1 Unit.
Prerequisites: junior standing or consent of instructor
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.

HUM 577B. International Experience: Spanish. 2 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 577C. International Experience: Spanish. 3 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 577D. International Experience: Spanish. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 577E. International Experience: Spanish. 5 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 577F. International Experience: Spanish. 6 Units.
Prerequisites: junior standing or consent of instructor
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.
HUM 578A. International Experience: Asian Studies. 1 Unit.
Prerequisites: junior standing or consent of instructor
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.

HUM 578B. International Experience: Asian Studies. 2 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 578C. International Experience: Asian Studies. 3 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 578D. International Experience: Asian Studies. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 578E. International Experience: Asian Studies. 5 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 578F. International Experience: Asian Studies. 6 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 579A. International Experience: French. 1 Unit.
Prerequisites: junior standing or consent of instructor
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.

HUM 579B. International Experience: French. 2 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 579C. International Experience: French. 3 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 579D. International Experience: French. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 579E. International Experience: French. 5 Units.
Prerequisites: junior standing or consent of instructor
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.

HUM 579F. International Experience: French. 6 Units.
Prerequisites: junior standing or consent of instructor
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.
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<td>1 Unit</td>
<td>Junior standing or consent of instructor</td>
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<td>HUM 580B</td>
<td>International Experience: Arabic</td>
<td>2 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
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<td>HUM 580C</td>
<td>International Experience: Arabic</td>
<td>3 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
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<tr>
<td>HUM 580D</td>
<td>International Experience: Arabic</td>
<td>4 Units</td>
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<tr>
<td>HUM 580E</td>
<td>International Experience: Arabic</td>
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<td>Junior standing or consent of instructor</td>
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</tr>
<tr>
<td>HUM 580F</td>
<td>International Experience: Arabic</td>
<td>6 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
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<tr>
<td>HUM 581A</td>
<td>International Experience: Portuguese</td>
<td>1 Unit</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 581B</td>
<td>International Experience: Portuguese</td>
<td>2 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 581C</td>
<td>International Experience: Portuguese</td>
<td>3 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 581D</td>
<td>International Experience: Portuguese</td>
<td>4 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 581E</td>
<td>International Experience: Portuguese</td>
<td>5 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 581F</td>
<td>International Experience: Portuguese</td>
<td>6 Units</td>
<td>Junior standing or consent of instructor</td>
<td>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.</td>
</tr>
</tbody>
</table>
HUM 582A. International Experience: European Studies. 1 Unit.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 582B. International Experience: European Studies. 2 Units.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 582C. International Experience: European Studies. 3 Units.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 582D. International Experience: European Studies. 4 Units.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 582E. International Experience: European Studies. 5 Units.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 582F. International Experience: European Studies. 6 Units.
Prerequisites: junior standing or consent of instructor
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 will be submitted for the approval to program coordinator or instructor in advance of the quarter in which the project is to be completed. Graded credit/no credit.

HUM 595A. Independent Study in the Humanities. 1 Unit.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A total of eight units may be applied toward graduation Advanced study in the Humanities. May be repeated for credit.

HUM 595B. Independent Study in the Humanities. 2 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A total of eight units may be applied toward graduation Advanced study in the Humanities. May be repeated for credit.

HUM 595C. Independent Study in the Humanities. 3 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A total of eight units may be applied toward graduation Advanced study in the Humanities. May be repeated for credit.

HUM 595D. Independent Study in the Humanities. 4 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A total of eight units may be applied toward graduation Advanced study in the Humanities. May be repeated for credit.

HUM 597. Senior Assessment in Liberal Studies. 2 Units.
Prerequisites: HUM 397 and completion of at least 135 units in the B.A. in Liberal Studies and completion of a minimum of three courses in the concentration Liberal Studies students will complete and submit their portfolios for evaluation. A reflective essay on required aspects of subject matter preparation is a required component and is used to introduce the portfolio. Required for graduation. Graded ABC/no credit.

HUM 628A. Special Projects. 1 Unit.
Prerequisites: graduate standing and consent of instructor Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation.

HUM 695A. Directed Graduate Studies. 1 Unit.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.
HUM 695B. Directed Graduate Studies. 2 Units.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.

HUM 695C. Directed Graduate Studies. 3 Units.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.

HUM 695D. Directed Graduate Studies. 4 Units.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.

HUM 695E. Directed Graduate Studies. 5 Units.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.

HUM 695F. Directed Graduate Studies. 6 Units.
Graduate-level independent study under the direct supervision of a faculty member from the students 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.

HUM 699A. Thesis. 1 Unit.
Prerequisites: advancement to candidacy
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.

HUM 699B. Thesis. 2 Units.
Prerequisites: advancement to candidacy
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.

HUM 699C. Thesis. 3 Units.
Prerequisites: advancement to candidacy
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.
**Bachelor of Arts in American Studies**

**Requirements (72 units)**

**Total units required for graduation:** 180

**Lower-division prerequisites (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 146</td>
<td>American Civilization</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units** 8

**Note:** HIST 146 and PSCI 203 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**

**Concepts and Methods (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMST 300</td>
<td>Introduction to American Studies</td>
<td>4</td>
</tr>
<tr>
<td>HUM 344</td>
<td>Ideas in American Culture</td>
<td>4</td>
</tr>
</tbody>
</table>

**American Arts (12)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 311</td>
<td>Art of the United States to the End of the Nineteenth Century</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

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

**Note:** Students may receive credit for only one of the following: ANTH 323 or ART 323

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 329</td>
<td>Chicano Art</td>
<td></td>
</tr>
<tr>
<td>MUS 309</td>
<td>Jazz History in America and African-American Culture</td>
<td></td>
</tr>
<tr>
<td>MUS 351</td>
<td>Latin American Music</td>
<td></td>
</tr>
<tr>
<td>TA 461</td>
<td>American Drama</td>
<td></td>
</tr>
<tr>
<td>TA 462</td>
<td>African-American Theatre and Drama</td>
<td></td>
</tr>
<tr>
<td>TA 468</td>
<td>Chicana/o and U.S. Latina/o Theatre</td>
<td></td>
</tr>
</tbody>
</table>

**Historical and Social Contexts (24)**

**Historical Periods. Twelve units chosen from:**

- ANTH 305 North American Prehistory
- ANTH 315 Archaeology of the Southwest
- HIST 350 The American Colonies, 1607-1783
- HIST 351 The Evolution of American Democracy, 1783-1840
- HIST 354 Civil War and Reconstruction
- HIST 356 The United States, 1877-1917
- HIST 357 The United States, 1917-1945
- HIST 359 The United States, 1945-1980

**Social and Political Contexts. Twelve units chosen from:**

- ANTH 351 Indians of North America
- ANTH 352 Indians of the Southwest
- ANTH 365 Asian American Cultures
- ANTH 366 Filipino Cultural Expressions
- GEOG 302 Geography of California
- GEOG 323 North America
- GEOG 350 Conservation and Natural Resources
- GEOG 440 Understanding the City
- ECON 421 Economic History of the United States
- ECON 445 Political Economy
- ECON 460 Labor Economics
- ECON 500 History of Economic Thought
- HIST 340 African-American History, 1620-1865
- HIST 341 African-American History, 1865-Present
- HIST 342 American Indian History
- HIST 344 Women in U.S. History, 1620-1865
- HIST 345 Women in U.S. History, 1865-Present
- HIST 346 Women in the Black Freedom Movement
- HIST 370 History of California
- HIST 540 Constitutional History of the United States
- HIST 560 History of the American West
- HIST 565 Immigration and Ethnic American History
- PSCI 314 American Political Thought
- PSCI 325 American Foreign Policy
- PSCI 326 Political Parties and Interest Groups
- PSCI 410 American Constitutional Law
- PSCI 411 The Bill of Rights
- PSCI 530 Studies in Political Theory
- SSCI 345 Religious Expression in America
- SOC 410 Sociology of Race and Ethnicity
- SOC 440 Social Class
- SOC 441 Black Social Stratification
- SOC 442 Chicano Social Stratification
- SOC 444 Sociology of Gender

**American Literature (20)**

**Literary Historical Periods 12**

- ENG 325 American Literature I
- ENG 326 American Literature II

One other four-unit American Literature course as approved by the American Studies coordinator.

**Diversity in American Literature 8**

Eight units chosen from:

- ENG 314 American Indian Literature
- ENG 319 Studies in Literary Diversity
- ENG 323 Chicano Literature
- ENG 324 Studies in Literary Topics
- ENG 339 African American Literature

**Note:** in order to ensure appropriate topic, students must be approved by the American Studies coordinator to enroll ENG 319 and/or ENG 324 to satisfy this requirement.

**American Themes Elective (4)**

Four additional elective units chosen from American Arts, Historical and Social Contexts, or American Literature.

**Culminating Experience (4)**

Four units chosen from:

- AMST 590 Special Topics in American Studies
<table>
<thead>
<tr>
<th>ENG 515</th>
<th>Senior Seminar in Literature (with appropriate topic approved by American Studies coordinator)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>72</td>
</tr>
</tbody>
</table>

California State University, San Bernardino
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 a minor in Latin American Studies

Core requirements (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 470</td>
<td>Modern Latin America</td>
<td>4</td>
</tr>
<tr>
<td>or HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td>4</td>
</tr>
<tr>
<td>FLAN 103D</td>
<td>Language Study III: Portuguese</td>
<td>4</td>
</tr>
<tr>
<td>or SPAN 103</td>
<td>College Spanish III</td>
<td></td>
</tr>
</tbody>
</table>

International experience (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 576B-F</td>
<td>International Experience (for a total of 4 units)</td>
<td>4</td>
</tr>
</tbody>
</table>

Integrative international seminar (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 500A</td>
<td>Current Ideas and Issues in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>or HUM 500B</td>
<td>Current Ideas and Issues in Latin America</td>
<td></td>
</tr>
</tbody>
</table>

Electives (12)

Twelve units, with at least one course each from groups A, B, and C:

<table>
<thead>
<tr>
<th>Group A. Social Sciences:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 306</td>
<td>4</td>
</tr>
<tr>
<td>Aztecs, Maya and their Predecessors</td>
<td></td>
</tr>
<tr>
<td>ANTH 307</td>
<td>4</td>
</tr>
<tr>
<td>Incas and their Predecessors</td>
<td></td>
</tr>
<tr>
<td>ANTH 324</td>
<td>4</td>
</tr>
<tr>
<td>Pre-Columbian Art *</td>
<td></td>
</tr>
<tr>
<td>ANTH 354</td>
<td>4</td>
</tr>
<tr>
<td>Cultures of Mexico and Central America</td>
<td></td>
</tr>
<tr>
<td>ANTH 356</td>
<td>4</td>
</tr>
<tr>
<td>Cultures of South America</td>
<td></td>
</tr>
<tr>
<td>ECON 540</td>
<td>4</td>
</tr>
<tr>
<td>Political Economy of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 322</td>
<td>4</td>
</tr>
<tr>
<td>United States and Mexico Border Issues</td>
<td></td>
</tr>
<tr>
<td>HIST 390</td>
<td>4</td>
</tr>
<tr>
<td>History of Modern Mexico</td>
<td></td>
</tr>
<tr>
<td>HIST 391</td>
<td>4</td>
</tr>
<tr>
<td>Chicano History</td>
<td></td>
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<tr>
<td>HIST 465</td>
<td>4</td>
</tr>
<tr>
<td>Modern Central America</td>
<td></td>
</tr>
<tr>
<td>HIST 466</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Relations of Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 467</td>
<td>4</td>
</tr>
<tr>
<td>Latin American History Through Film</td>
<td></td>
</tr>
<tr>
<td>HIST 469</td>
<td>4</td>
</tr>
<tr>
<td>Colonial Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 470</td>
<td>4</td>
</tr>
<tr>
<td>Modern Latin America</td>
<td></td>
</tr>
<tr>
<td>PSCI 352C</td>
<td>4</td>
</tr>
<tr>
<td>Minority Politics: Latino Politics</td>
<td></td>
</tr>
<tr>
<td>SOC 342</td>
<td>4</td>
</tr>
<tr>
<td>The Chicano Family</td>
<td></td>
</tr>
<tr>
<td>SOC 442</td>
<td>4</td>
</tr>
<tr>
<td>Chicano Social Stratification</td>
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</tr>
<tr>
<td>SOC 525</td>
<td>4</td>
</tr>
<tr>
<td>Indian Nations and Native America</td>
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<tr>
<td>SOC 590</td>
<td>4</td>
</tr>
<tr>
<td>Seminar in Sociology</td>
<td></td>
</tr>
<tr>
<td>SSCI 304</td>
<td>4</td>
</tr>
<tr>
<td>Contemporary Latin America</td>
<td></td>
</tr>
</tbody>
</table>

Note: Students may receive credit for only one of the following courses: ANTH 324, ART 324

<table>
<thead>
<tr>
<th>Group B. Arts, Languages, Literature and Education:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 324</td>
<td>4</td>
</tr>
<tr>
<td>Pre-Columbian Art *</td>
<td></td>
</tr>
<tr>
<td>ART 328</td>
<td>4</td>
</tr>
<tr>
<td>Mexican Art</td>
<td></td>
</tr>
<tr>
<td>ART 329</td>
<td>4</td>
</tr>
<tr>
<td>Chicano Art</td>
<td></td>
</tr>
<tr>
<td>EELB 512</td>
<td>4</td>
</tr>
<tr>
<td>Spanish Childrens Literature for the Bilingual Classroom</td>
<td></td>
</tr>
<tr>
<td>ENG 319</td>
<td>4</td>
</tr>
<tr>
<td>Studies in Literary Diversity</td>
<td></td>
</tr>
<tr>
<td>ENG 323</td>
<td>4</td>
</tr>
<tr>
<td>Chicano Literature</td>
<td></td>
</tr>
<tr>
<td>HUM 335</td>
<td>4</td>
</tr>
<tr>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td></td>
</tr>
<tr>
<td>HUM 460</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Studies</td>
<td></td>
</tr>
<tr>
<td>MUS 351</td>
<td>4</td>
</tr>
<tr>
<td>Latin American Music</td>
<td></td>
</tr>
<tr>
<td>SPAN 314</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Conversation **</td>
<td></td>
</tr>
<tr>
<td>SPAN 316A</td>
<td>4</td>
</tr>
<tr>
<td>Spanish for the Professions: Communications **</td>
<td></td>
</tr>
<tr>
<td>SPAN 316B</td>
<td>4</td>
</tr>
<tr>
<td>Spanish for the Professions: Health Science **</td>
<td></td>
</tr>
<tr>
<td>SPAN 316C</td>
<td>4</td>
</tr>
<tr>
<td>Spanish for the Professions: Education **</td>
<td></td>
</tr>
<tr>
<td>SPAN 316D</td>
<td>4</td>
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<tr>
<td>Spanish for the Professions: Business **</td>
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</tr>
<tr>
<td>SPAN 316E</td>
<td>4</td>
</tr>
<tr>
<td>Spanish for the Professions: Law Enforcement **</td>
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<tr>
<td>SPAN 412</td>
<td>4</td>
</tr>
<tr>
<td>Latin American Civilization **</td>
<td></td>
</tr>
<tr>
<td>SPAN 435</td>
<td>4</td>
</tr>
<tr>
<td>Chicano Literature in Spanish **</td>
<td></td>
</tr>
<tr>
<td>SPAN 440</td>
<td>4</td>
</tr>
<tr>
<td>Mexican Literature **</td>
<td></td>
</tr>
<tr>
<td>SPAN 442</td>
<td>4</td>
</tr>
<tr>
<td>Literature of the Southern Cone **</td>
<td></td>
</tr>
<tr>
<td>SPAN 516A-G</td>
<td>4</td>
</tr>
<tr>
<td>Seminar in Spanish American Literature, Culture or Film:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group C. Business, Management, Communication, Health and Nutrition:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 365</td>
<td>4</td>
</tr>
<tr>
<td>Topics in Media Studies (when the topic is Media and Social Change in Latin America)</td>
<td></td>
</tr>
<tr>
<td>COMM 471</td>
<td>4</td>
</tr>
<tr>
<td>International Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 593D</td>
<td>4</td>
</tr>
<tr>
<td>Communication Approaches to Area Studies: Latin America</td>
<td></td>
</tr>
<tr>
<td>HSCI 344</td>
<td>4</td>
</tr>
<tr>
<td>International Perspectives on Nutrition</td>
<td></td>
</tr>
<tr>
<td>HSCI 359</td>
<td>4</td>
</tr>
<tr>
<td>Global Health</td>
<td></td>
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<tr>
<td>HSCI 385</td>
<td>4</td>
</tr>
<tr>
<td>Food and Culture: Traditions and Trends</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>4</td>
</tr>
<tr>
<td>Managing Across Borders</td>
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<tr>
<td>MGMT 407</td>
<td>4</td>
</tr>
<tr>
<td>Comparative Management Systems of the Americas</td>
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</tr>
<tr>
<td>MKTG 470</td>
<td>4</td>
</tr>
<tr>
<td>International Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 28

Note: Spanish courses at the 300-level and above are taught in Spanish.
Note: In the electives categories, those courses not specifying a topic, are applicable only when the student’s project/ research focuses on Latin America.

Foreign Language Requirement for Spanish or Portuguese

The following rules apply to challenging a language course for credit in this minor:

- **Note**: Students may receive credit for only one of the following courses: ANTH 324, ART 324
- **Note**: Spanish courses at the 300-level and above are taught in Spanish.

Note: In the electives categories, those courses not specifying a topic, are applicable only when the student’s project/ research focuses on Latin America.
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.
Department of Art

Accredited by the National Association of Schools of Art and Design

Department of Art

Visual Arts Center, Room 105
(909) 537-5802 Department of Art website (http://art.csusb.edu)

Bachelor of Arts

• Art - Plan I (Visual Studies)
• 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 (Visual Studies)

Minor

• Art History
• Film Studies
• Graphic Design: Print
• Graphic Design: Web
• Studio Art

Certificate Program

Business Skills for the Artist

Master of Arts

Art

• Art Education
• Studio Art

Master of Fine Arts

Studio Art and Design

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.

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 contact the Credentials Office, CE-102 for information.

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.

Current Faculty

Annie Buckley, Assistant Professor
B.A. 1990, University of California, Berkeley
M.F.A. 2003, Otis College Of Art & Design

Jane Chin Davidson, Assistant Professor
Ph.D, 2007, University of Manchester

Kurt Collins, Professor
B.A. 1995, University of Colorado
M.S. 1996, Ferris State University

Katherine Gray, Associate Professor
B.A. 1989, Ontario College of Art
M.F.A. 1991, Rhode Island School of Design

Richard M. Johnston, Professor
B.A. 1966, California State University, Long Beach
M.F.A. 1968, Cranbrook Academy of Art

Jiong Li, Assistant Professor

Thomas McGovern, Professor
B.A. 1988, Empire State College, New York
M.F.A. 2000, California State University, Fullerton
Andrew Oakes, Assistant Professor  
B.A. 1997, California State University, San Bernardino

Margaret A. Perry, Professor, Chair  
B.A. 1975, M.F.A. 1985, San Diego State University

Alison Petty Ragguette, Associate Professor  
B.F.A. 1997, Concordia University  
M.F.A. 2004, California College of the Arts

Brad Spence, Assistant Professor  
B.A. 1990, University of Florida  
M.F.A. 1996, California Institute of the Arts

Beth Steffel, Assistant Professor  
B.F.A. 2004, University of Akron  
M.F.A. 2006, University of Cincinnati

Emeriti

Leo G. Doyle, Professor
Robert R. Harrison, Professor
Julius D. Kaplan, Professor
Sant K. Khalsa, Professor
Roger Linault, Professor
George McGinnis, Professor
Joseph R. Moran, Professor
Billie P. Sessions, Professor
William Warehall, Professor
Don Woodford, Professor

Undergraduate Degrees

Bachelor of Arts

- Art - Plan I (Visual Studies) (p. 186)
- Art - Plan II (Studio Art) (p. 188)
- Art - Plan III (Art History) (p. 189)
- Art - Plan IV (Graphic Design) (p. 190)
- Art - Plan V (Graphic Design and Marketing) (p. 191)

Graduate Degrees

Master of Arts in Art

- Art Education (p. 191)
- Studio Art (p. 192)

Master of Fine Arts

- Studio Art and Design (p. 193)

Minors

- Art History (p. 194)
- Film Studies (p. 214) (The Department of Art participates in the interdisciplinary minor in Film Studies.)
- Graphic Design: Print (p. 195)
- Graphic Design: Web (p. 195)
- Studio Art (p. 195)

Certificate Program

- Business Skills for the Artist (p. 196)

Courses

ART 112A. Special Topics in Art. 1 Unit.  
Study of a selected topic, theme or movement in the visual arts. May be repeated for credit as topics change. Materials fee required.

ART 112B. Special Topics In Art. 2 Units.  
Study of a selected topic, theme or movement in the visual arts. May be repeated for credit as topics change. Materials fee required.

ART 120. Introduction to Two Dimensional Design. 4 Units.  
An introduction to and exploration of the basic principles, components and terminology of two dimensional design that are common to the visual arts. Included are two-dimensional theory, theories of color and light, and their creative use in visual art and design as a graphic means of expression and communication. Materials fee required. Formerly ART 212. Eight hours activity.

ART 121. Introduction to Three Dimensional Design. 4 Units.  
An introduction to and exploration of the elements and principles of three dimensional design and their applications, with emphasis on form in space, design systems, and contemporary art concepts. Experimentation in both natural and synthetic materials such as paper, clay, metal, and wood. Materials fee required. Formerly ART 213 and 214. Eight hours activity.

ART 122. Introduction to Drawing and Life Drawing. 4 Units.  
An introduction to techniques of drawing for the purpose of creative expression related to object placement in space, figure placement in space and rendering, as it applies to various fields of art and design. There is an emphasis on form, structure, values, proportions, line, gesture, and systems of perspective and space. Materials fee required. Formerly ART 215 and 216. Eight hours activity.

ART 123. Introduction to Art and Technology. 4 Units.  
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.
ART 124. Introduction to Digital Media Design. 4 Units.
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.

ART 125. Freshman Seminar: Art and Society I. 2 Units.
Prerequisites: declared B.A. in Art, Plan I or Plan II
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 I and Plan II freshmen and all transfer students.
Two hours lecture. Graded credit/no credit. Materials fee required.

ART 200. Studies in Art. 4 Units.
(GE=C1)
Exploration of the form and content of art. Emphasis on understanding and appreciating painting, sculpture, architecture and other art media. May not be counted toward fulfilling requirements in the Art major.
Materials fee required.

ART 221. Art History: Prehistoric Times through the Middle Ages. 4 Units.
Development of early Western art and its historical context. Materials fee required.

ART 222. Art History: Africa, Asia, the Americas and Oceania. 4 Units.
Development of global arts and their historical contexts, including traditions of Africa, Asia, the Americas and Oceania. Materials fee required.

ART 223. Art History: Renaissance to the Present. 4 Units.
Development of later Western art and its historical context. Materials fee required.

ART 232. Principles of Design Management. 4 Units.
Prerequisites: ART 120 and ART 122 or consent of instructor
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.

ART 235. Beginning Painting. 5 Units.
Prerequisites: ART 120 and ART 122
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.

ART 238. Production of Visual Information Design. 4 Units.
Prerequisites: ART 120 and ART 122 or consent of instructor
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.

ART 240. Beginning Sculpture. 5 Units.
Prerequisites: ART 121 or consent of instructor
Approaches to sculpture using a variety of materials, tools, processes and concepts. Materials fee required. Two hours lecture and six hours laboratory. Formerly ART 340.

ART 254. Beginning Ceramics. 5 Units.
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.

ART 260. Beginning Printmaking. 5 Units.
Prerequisites: ART 120, ART 122, and ART 123 or consent of instructor
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.

ART 268. Beginning Woodworking and Furniture Design. 5 Units.
Explorations in the use of hand and power tools in woodworking. Materials fee required. Formerly ART 368.

ART 270. Beginning Glass. 5 Units.
Prerequisites: ART 121 or consent of instructor
Basic creative glassworking techniques, including working with molten glass (glassblowing, solid sculpting,) coldworking (cutting, grinding, polishing, surface decoration) and kilncasting. Lectures, demonstrations, visits, artists, and field trips as needed. Two hours lecture and six hours laboratory. Materials fee required.

ART 290. Beginning Analog Photography. 5 Units.
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 activity. Formerly ART 390. Materials fee required.

ART 291. Beginning Digital Photography. 5 Units.
Fundamentals of digital photography emphasizing theory, aesthetics, and technology for fine art and commercial applications. Instruction includes acquisition techniques (digital cameras and scanning equipment), image correction, cataloging, editing software, and printing. Two hours lecture and six hours activity. Materials fee required.

ART 301. Topics in Studio Art for Non-Majors. 2.5 Units.
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.

ART 302. Topics in Studio Art for Non-Majors. 5 Units.
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.
ART 304. Advanced Drawing and Life Drawing. 5 Units.
Prerequisites: ART 122 or consent of instructor
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.

ART 305. Women and Art. 4 Units.
Survey of women artists in Europe and America from ancient to modern times, contrasting feminist and conventional perspectives. Explores issues of artistic style and content and examines the institution of patronage and its effect on women artists. Formerly a topic under ART 410. Materials fee required.

ART 306. Greek and Roman Art. 4 Units.
Architecture, sculpture, painting and decorative arts of ancient Greece and Rome. Materials fee required.

ART 308. Intermediate Woodworking and Furniture Design. 5 Units.
Prerequisites: ART 268 or consent of instructor
Intermediate woodworking and furniture design using a variety of materials, tools, processes, and concepts. May be repeated for credit for a maximum of 10 units as content changes. Materials fee required. Two hours lecture and six hours laboratory.

ART 310. Asian Art. 4 Units.
History and development of selected Asian art traditions in their historical contexts. Materials fee required.

ART 311. Art of the United States to the End of the Nineteenth Century. 4 Units.
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.

ART 313. Printing Production. 5 Units.
Foundation of printing production including procedures for operating a two-color offset press and related tools and equipment. Materials fee required.

ART 314. The Art of Indigenous Peoples. 4 Units.
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.

ART 316. Arts of the Ancient Near East and Egypt. 4 Units.
History and development of the architecture, sculpture and decorative arts of the Ancient Near East and Egypt. Materials fee required.

ART 320. Digital Image Editing. 5 Units.
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.

ART 321. Renaissance Art. 4 Units.
Art and architecture of northern and southern Europe in the fifteenth and sixteenth centuries. Materials fee required.

ART 322. Web Design. 5 Units.
A hands-on course on the fundamentals of designing functional Web pages from the graphic designers 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.

ART 323. Native North American Art. 4 Units.
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.

ART 324. Pre-Columbian Art. 4 Units.
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.

ART 325. Advanced Digital Image Editing. 5 Units.
Prerequisites: ART 320 or consent of instructor
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.

ART 326. Interactive Multimedia Design. 5 Units.
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.

ART 327. Baroque and Rococo Art. 4 Units.
Art and architecture of seventeenth and eighteenth century Europe. Materials fee required.

ART 328. Mexican Art. 4 Units.
Art and architecture of Mexico from the Conquest to the present. Materials fee required.

ART 329. Chicano Art. 4 Units.
Art and culture of Mexican Americans. Materials fee required.

ART 330. Animation and Web Motion- Graphics. 5 Units.
Prerequisites: ART 322 or consent of instructor
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.

ART 333. History of Graphic Design. 4 Units.
Development of graphic communication from pictographs to contemporary design. Materials fee required.
ART 334. History of Animation. 4 Units.
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.

ART 335. Intermediate Painting. 5 Units.
Prerequisites: ART 235 or consent of instructor
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 a maximum of 10 units as content changes. Materials fee required.

ART 336. Advanced Painting. 5 Units.
Prerequisites: ten units of ART 235 or consent of instructor
Advanced work in painting. May be repeated for a maximum of 25 units as content changes each term. Materials fee required. Two hours lecture and six hours activity.

ART 337. Interactive and Motion-Graphic. 5 Units.
Prerequisites: junior or senior standing in graphic design or consent of instructor
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 lab. Materials fee required.

ART 340. Intermediate Sculpture. 5 Units.
Prerequisites: 10 units of ART 240
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.

ART 341. Advanced Sculpture. 5 Units.
Prerequisites: ten units of ART 240
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.

ART 342. Graphic Design I. 5 Units.
Prerequisites: ART 232 and ART 238 or consent of instructor
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.

ART 343. Graphic Design II. 5 Units.
Prerequisites: ART 342 or consent of instructor
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.

ART 344. Graphic Design III. 5 Units.
Prerequisites: ART 343 or consent of instructor
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.

ART 345. Gallery Management. 2 Units.
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.

ART 350. Introduction to Digital Illustration. 5 Units.
Prerequisites: ART 123, 235 and 238 or consent of instructor
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.

ART 351. Advanced Digital Illustration. 5 Units.
Prerequisites: ART 350
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.

ART 355. Intermediate Ceramics. 5 Units.
Prerequisites: ART 254 or consent of instructor
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.

ART 357. Advanced Ceramics. 5 Units.
Prerequisites: ten units of ART 355 or consent of instructor
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.

ART 359. History of Photography. 4 Units.
Development of the technology and aesthetics of photography. Materials fee required.

ART 361. Intermediate Printmaking. 5 Units.
Prerequisites: ART 120, ART 122 and ART 260
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.
ART 362. Advanced Printmaking. 5 Units.
Prerequisites: ten units of ART 361 or consent of instructor
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.

ART 365A. Directed Studio Problems. 1 Unit.
Prerequisites: consent of instructor
Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.

ART 365B. Directed Studio Problems. 2 Units.
Prerequisites: consent of instructor
Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.

ART 365C. Directed Studio Problems. 3 Units.
Prerequisites: consent of instructor
Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.

ART 365D. Directed Studio Problems. 4 Units.
Prerequisites: consent of instructor
Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.

ART 365E. Directed Studio Problems. 5 Units.
Prerequisites: consent of instructor
Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required.

ART 366. Topics in Studio Art. 5 Units.
Prerequisites: ART 120, 121, 122, and three lower-division studio art courses or consent of instructor
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.

ART 369. Advanced Woodworking and Design. 5 Units.
Prerequisites: ART 368
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.

ART 370. Intermediate Glass. 5 Units.
Prerequisites: ART 270 or consent of instructor
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 in-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.

ART 373. Installation Art. 5 Units.
Prerequisites: Art 121, 122, 123, 124, and successful completion of two lower division studio courses or consent of instructor
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.

ART 382. Computer Animation: 3D Modeling. 5 Units.
Prerequisites: junior standing, art or computer science major or consent of instructor
Introduction to 3D computer modeling. Explores additive and reductive model development techniques. Emphasizes creation of multifaceted and articulated parts. Two hours lecture, six hours laboratory. Materials fee required.

ART 383. Computer Animation: Character Modeling. 5 Units.
Prerequisites: ART 382 or consent of instructor
Techniques of character modeling and animation including hierarchies, skeletons, forward and inverse kinematics, constraints, muscle, skin, facial animation, dialogue recording, lip-synching and mathematical expressions. Two hours lecture, six hours laboratory. Materials fee required.

ART 384. Digital Motion Imaging. 5 Units.
Prerequisites: junior standing, or consent of instructor
Digital motion imaging for graphic, electronic and web designers. Familiarizes students with process and tools of digital motion imaging for conceptual design projects. Successful course completion will result in Apple FinalCut Pro certification. Two hours lecture, six hours lab. Materials fee required.

ART 385. Sound Design for Multimedia. 5 Units.
Prerequisites: ART 382 or consent of instructor
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, six hours lab. Materials fee required.

ART 386. Digital Photography. 5 Units.
Prerequisites: ART 290 or consent of instructor
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.

ART 387. Video Art. 5 Units.
Prerequisites: ART 123 or consent of instructor
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.
ART 388. Digital Lighting. 5 Units.
Prerequisites: ART 382 or consent of instructor
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, six hours laboratory. Materials fee required.

ART 391. Intermediate Photography. 5 Units.
Prerequisites: ART 290 and ART 291 or consent of instructor
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 activity. Materials fee required.

ART 395. Art in the Classroom. 3 Units.
Provides basic art skills and experiences and current art education theory and practice for the elementary classroom teacher. Students will learn how to design art lessons and art activities based on works of art in accordance with California and National standards for the visual arts. May not be counted towards fulfilling requirements in the art major. May not be taken for credit by students who have received credit for ART 400. Materials fee required. Six hours of fine arts activity. Materials fee required.

ART 396. New Genres. 5 Units.
Prerequisites: ART 121, ART 122, ART 123, ART 124, and successful completion of two lower division studio courses or consent of instructor
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 maximum of 20 units as content changes.

ART 397. Art and Media for the Classroom. 4 Units.
Prerequisites: ART 395
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.

ART 400. Teaching Art in the Elementary Classroom. 4 Units.
Prerequisites: ART 200 and a college-level studio art course
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.

ART 410. Studies in Art History. 4 Units.
Study in a selected period or topic in the history of art. May be repeated for credit as topics change. Materials fee required.

ART 414. Senior Studio Critique. 4 Units.
Prerequisites: B.A. in Art, Plan II, and senior status
Interdisciplinary art critiques, art writing, readings and discussions relevant to contemporary ideas and issues in art. Materials fee required.

ART 415. Senior Seminar: Art and Society II. 2 Units.
Prerequisites: senior standing in Department of Art or consent of instructor
The theoretical and practical roles of art, artists and their audience through history to the present.

ART 416. Senior Project. 2 Units.
Prerequisites: senior standing in Department of Art or consent of instructor
Preparation of a senior project in the students area of concentration. Documentation of project is required. Graded credit/no credit Materials fee required.

ART 420. Art from 1900 to the Present. 4 Units.
Art from 1900 to the present, with emphasis on Europe and the United States. Materials fee required.

ART 422. Dynamic Web Site Design. 5 Units.
Prerequisites: to computer science students with junior or senior standing, graphic design students or students with consent of instructor
Advanced design for dynamic web sites. Explores use of Content Management systems and Database driven websites. Two hours lecture, six hours laboratory. Materials fee required.

ART 423. Nineteenth Century European Art. 4 Units.
Art of the Nineteenth-century Europe; from neo-Classicism through post-Impressionism. Materials fee required.

ART 440. History, Philosophy, and Theories of Visual Studies. 4 Units.
Prerequisites: junior in Art Dept. or consent of instructor. Materials fee required
Students examine historical and contemporary approaches to teaching and learning art; analyze a diversity of perspectives; identify socio-cultural, economic, and political forces impacting equity and access to art; and examine the influence of community and individuality on art and learning.

ART 441. Public Art. 5 Units.
Prerequisites: ART 120, 121, 122 and 123 or consent of instructor
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.

ART 442. Graphic Design IV. 5 Units.
Prerequisites: ART 344 or consent of instructor
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.

ART 443. Graphic Design V. 5 Units.
Prerequisites: ART 442 or consent of instructor
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.
ART 460. Art and Human Development. 4 Units.
Prerequisites: ART 440. Materials fee required.
Exploration of the relationship between art and human development. Student learn philosophical, psychological, and methodological perspectives on art and human development with emphasis on the impact of diversity in socio-cultural, communal, linguistic, and other areas on art and learning.

ART 471. Advanced Glass. 5 Units.
Prerequisites: ten units of ART 370 or consent of instructor.
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.

ART 483. Studies in Studio Art. 5 Units.
Prerequisites: ART 120, 121, 122, and 123 or consent of instructor. Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required.

ART 484. Studies in Studio Art. 2.5 Units.
Prerequisites: ART 120, 121, 122, and 123 or consent of instructor. Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required.

ART 492. Advanced Photography. 5 Units.
Prerequisites: ART 290, ART 291 and ART 391 or consent of instructor. Advanced work in photography. May be repeated for a maximum of 25 units as content changes. Two hours lecture and six hours activity. Materials fee required. Formerly ART 392.

ART 499. Art Education: Methods and Materials. 4 Units.
Prerequisites: ART 399, ART 495 and ART 497.
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.

ART 520. Contemporary Art, Theory and Criticism. 4 Units.
Prerequisites: a minimum of 12 units in art history. An examination of selected major movements of contemporary art, and recent art theory and criticism. Formerly ART 459 and ART 625. Materials fee required. (4 units.

ART 525. Seminar in Art History. 4 Units.
Prerequisites: a minimum of 12 units in art history. Historical perspectives on specific art disciplines including research methods in art history for studio artists. Materials fee required.

ART 530. Art Writing. 4 Units.
Prerequisites: completion of the upper division writing requirement and eight units of Art History courses or consent of instructor. 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.

ART 540. Art and Community. 3 Units.
Prerequisites: senior or graduate student in Art or consent of Instructor. A Service-Learning course where students learn to develop and teach art lessons and participate directly in teaching through a community university partnership. Materials fee required.

ART 575A. Internship. 1 Unit.
Prerequisites: consent of instructor. 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.

ART 575B. Internship. 2 Units.
Prerequisites: consent of instructor. 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.

ART 575C. Internship. 3 Units.
Prerequisites: consent of instructor. 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.

ART 575D. Internship. 4 Units.
Prerequisites: consent of instructor. 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.

ART 575E. Internship. 5 Units.
Prerequisites: consent of instructor. 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.

ART 595A. Independent Study. 1 Unit.
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. Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.

ART 595B. Independent Study. 2 Units.
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. Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.

ART 595C. Independent Study. 3 Units.
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. Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.
ART 595D. Independent Study. 4 Units.
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.
Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.

ART 595E. Independent Study. 5 Units.
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.
Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.

ART 595F. Independent Study. 6 Units.
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.
Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required.

ART 596. Strategies for Curriculum and Instruction. 4 Units.
Prerequisites: admission to the Master of Arts in Art, Art Education Emphasis.
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.

ART 603. Graduate Studio in Art. 2 Units.
Prerequisites: admission to the M.A. in Art program.
Corequisites: concurrent enrollment in ART 615 and 620.
Investigation of advanced studio problems focusing on the development of individual directions. Materials fee required. Formerly ART 602.

ART 604. Graduate Studio in Art. 5 Units.
Prerequisites: admission to the M.A. in Art program.
Corequisites: concurrent enrollment in ART 615 and 620.
Investigation of advanced studio problems focusing on the development of individual directions. Materials fee may be required. Formerly ART 605.

ART 605A. Graduate Studio in Art. 5 Units.
Prerequisites: admission to the M.A. in Art program.
Corequisites: concurrent enrollment in ART 610 and 620.
Investigation of advanced studio problems focusing on the development of individual directions. Materials fee may be required.

ART 615A. Graduate Seminar in Art. 1 Unit.
Prerequisites: admission to the M.A. in Art program.
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.

ART 615B. Graduate Seminar in Art. 2 Units.
Prerequisites: admission to the M.A. in Art program.
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.

ART 615C. Graduate Seminar in Art. 3 Units.
Prerequisites: admission to the M.A. in Art program.
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.

ART 615D. Graduate Seminar in Art. 4 Units.
Prerequisites: admission to the M.A. in Art program.
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.

ART 617. Graduate Seminar in Critical Theory and Methodology. 4 Units.
Prerequisites: admission to the M.A. in Art, Studio Art Emphasis.
Theoretical, critical and methodological approaches with emphasis on contemporary visual arts. Research paper is required in this course.

ART 618. Graduate Seminar in Contemporary Art Issues and Practices. 4 Units.
Prerequisites: admission to the M.A. in Art, Studio Art or Art Education programs.
Current issues and practices and their relevance to contemporary artists.

ART 620B. Graduate Studio Critique. 2 Units.
Prerequisites: admission to one of the Master's programs in Art.
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.A. in Art, Studio Art program. Materials fee required. Graded credit/no credit.

ART 620D. Graduate Studio Critique. 4 Units.
Prerequisites: admission to one of the Master's programs in Art.
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.A. in Art, Studio Art program. Materials fee required. Graded credit/no credit.

ART 630. Professional Practices in the Visual Arts. 4 Units.
Prerequisites: admission to the M.A. in Art, Studio Art or the M.F.A. in Studio Art and Design.
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.

ART 630D. Graduate Seminar in Professional Practices. 4 Units.
Prerequisites: admission to the M.F.A. in Studio Art and Design.
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. Materials fee required.
ART 641. Art Education: Survey of Research and Methodologies. 4 Units.
Prerequisites: admission to the M.A. in Art, Art Education program 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.

ART 643. Art Education: Research Statement and Literature Review. 2 Units.
Prerequisites: ART 641 Development of a research statement and literature review of student’s chosen topic. Emphasis on in-class, guided, peer critique, and independent research.

ART 670. Practicum for Teaching Assistants in Art. 2 Units.
Prerequisites: must be a second year classified MFA in Studio Art and Design student For graduate students interested in gaining teaching experience in art. Designed to facilitate the development of syllabi, teaching methodologies and assessment outcomes. May be repeated for credit, but only 4 units count towards the degree.

ART 695D. Masters Project in Studio Art. 4 Units.
Prerequisites: successful completion of advancement review conducted by the Department of Art graduate committee and graduate coordinator 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.

ART 695E. Masters Project in Studio Art. 5 Units.
Prerequisites: successful completion of advancement review conducted by the Department of Art graduate committee and graduate coordinator 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.

ART 696. Art Education: Master’s Project in Art Education. 4 Units.
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 Preparation for 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.

ART 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
ART 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Bachelor of Arts in Art - Plan I (Visual Studies)
Requirements (97 units)
Total units required for graduation: 180
This interdisciplinary program is designed for students seeking a liberal education with an emphasis in art. It is recommended for those who wish to pursue teaching, writing, curating, and/or other ways of facilitating art and art experiences in the public realm. After completion of the core program, students will choose from one of the three emphases.

Emphasis A is designed for students who wish to pursue either a Single Subject Teaching Credential in Art or a graduate studies in Art Education or Art Therapy and is an approved subject matter competency waiver in the area of Art by the California Commission on Teacher Credentialing.

Emphasis B is designed for students who wish to pursue careers and/or graduate studies in Art History and Art theory and Criticism.

Emphasis C is designed for students who wish to pursue independent paths in curating, gallery management, writing, or other areas in which art and the public intersect.

Requirements for the B.A. in Art - Plan I
Lower-division requirements (45)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Introduction to Two Dimensional Design</td>
<td>4</td>
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<tr>
<td>ART 121</td>
<td>Introduction to Three Dimensional Design</td>
<td>4</td>
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<tr>
<td>ART 122</td>
<td>Introduction to Drawing and Life Drawing</td>
<td>4</td>
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<tr>
<td>ART 123</td>
<td>Introduction to Art and Technology</td>
<td>4</td>
</tr>
<tr>
<td>ART 125</td>
<td>Freshman Seminar: Art and Society I</td>
<td>2</td>
</tr>
<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
<td>4</td>
</tr>
<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
<td>4</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
<td>4</td>
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<tr>
<td>Fifteen units chosen from:</td>
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<tr>
<td>ART 235</td>
<td>Beginning Painting</td>
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<tr>
<td>ART 240</td>
<td>Beginning Sculpture</td>
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<tr>
<td>ART 254</td>
<td>Beginning Ceramics</td>
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<tr>
<td>ART 260</td>
<td>Beginning Printmaking</td>
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<tr>
<td>ART 290</td>
<td>Beginning Analog Photography</td>
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</tbody>
</table>
California State University, San Bernardino

or ART 291  Beginning Digital Photography

Note: Only one photography course (ART 290 or ART 291) counts toward the Plan I lower-division requirements.

Upper-division requirements (25)

History of Art
ART 420  Art from 1900 to the Present  4

Four units chosen from:

ART 305  Women and Art
ART 310  Asian Art
ART 314  The Art of Indigenous Peoples
ART 323  Native North American Art
ART 324  Pre-Columbian Art
ART 328  Mexican Art
ART 329  Chicano Art
ART 396  New Genres  5
ART 415  Senior Seminar: Art and Society II  2
ART 416  Senior Project  2
ART 460  Art and Human Development  4
ART 575D  Internship  4

Total Units  70

Visual Studies students choose one of the following three emphases:

**Emphasis A:**

Art Education/Art Therapy (27)

ART 440  History, Philosophy, and Theories of Visual Studies  4
ART 540  Art and Community  3

Choose two courses from the following (not to be repeated from lower-division studio art course above) for a total of 10 units:

ART 235  Beginning Painting
ART 240  Beginning Sculpture
ART 254  Beginning Ceramics
ART 260  Beginning Printmaking
ART 290  Beginning Analog Photography
or ART 291  Beginning Digital Photography

Note: only one photography course (ART 290 or ART 291) counts toward the Plan I lower-division requirements

Choose two courses from the following from two different areas of specialization for a total of 10 units (Note: some courses listed require lower-division prerequisites):

Ceramics
ART 355  Intermediate Ceramics
ART 357  Advanced Ceramics

Graphic Design
ART 320  Digital Image Editing
ART 322  Web Design
ART 325  Advanced Digital Image Editing

New Genres
ART 366  Topics in Studio Art
ART 373  Installation Art
ART 387  Video Art
ART 441  Public Art

Painting

ART 304  Advanced Drawing and Life Drawing
ART 335  Intermediate Painting
ART 336  Advanced Painting

Photography
ART 391  Intermediate Photography
ART 492  Advanced Photography

Printmaking
ART 361  Intermediate Printmaking
ART 362  Advanced Printmaking

Sculpture
ART 340  Intermediate Sculpture
ART 341  Advanced Sculpture

Total Units  27

**Emphasis B:**

Art History and Criticism (27)

ART 520  Contemporary Art, Theory and Criticism  4
ART 525  Seminar in Art History  4
ART 530  Art Writing  4
ART 540  Art and Community  3
or ART 595C  Independent Study

Three upper division Art History courses from the following two groups totaling 12 units.

Choose two courses from the following (not to be repeated from courses selected above):

ART 305  Women and Art
ART 306  Greek and Roman Art
ART 310  Asian Art
ART 314  The Art of Indigenous Peoples
ART 316  Arts of the Ancient Near East and Egypt
ART 321  Renaissance Art
ART 323  Native North American Art
ART 324  Pre-Columbian Art
ART 327  Baroque and Rococo Art
ART 328  Mexican Art
ART 329  Chicano Art

Choose one course from the following:

ART 333  History of Graphic Design
ART 334  History of Animation
ART 359  History of Photography

Total Units  27

**Emphasis C:**

Public Practices in Art (27)

Five courses totaling 17 units as follows:  17

ART 345  Gallery Management
ART 440  History, Philosophy, and Theories of Visual Studies
ART 520  Contemporary Art, Theory and Criticism
ART 530  Art Writing
ART 540  Art and Community

Choose from the following list of courses for a total of 10 units:  10

ART 373  Installation Art
### Bachelor of Arts in Art - Plan II (Studio Art)

**Requirements (96 units)**

**Total units required for graduation: 180**

This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies.

**Requirements for the B.A. in Art - Plan II**

#### Lower-division requirements (50)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Introduction to Two Dimensional Design</td>
<td>4</td>
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<td>ART 121</td>
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<td>Art History: Prehistoric Times through the Middle Ages</td>
<td>4</td>
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<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
<td>4</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
<td>4</td>
</tr>
<tr>
<td>ART 291</td>
<td>Beginning Digital Photography</td>
<td>5</td>
</tr>
</tbody>
</table>

Select three courses from lower-division studio art courses: 15

<table>
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<th>Course</th>
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<tr>
<td>ART 260</td>
<td>Beginning Printmaking</td>
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<tr>
<td>ART 288</td>
<td>Beginning Woodworking and Furniture Design</td>
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<tr>
<td>ART 270</td>
<td>Beginning Glass</td>
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<tr>
<td>ART 290</td>
<td>Beginning Analog Photography</td>
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</tbody>
</table>

#### Upper-division requirements (46)

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<td>ART 310</td>
<td>Asian Art</td>
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<tr>
<td>ART 311</td>
<td>Art of the United States to the End of the Nineteenth Century</td>
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<tr>
<td>ART 314</td>
<td>The Art of Indigenous Peoples</td>
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<td>Renaissance Art</td>
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<td>Video Art</td>
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<td>ART 441</td>
<td>Public Art</td>
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<tr>
<td>ART 595A-B</td>
<td>Independent Study</td>
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<td>ANTH 341</td>
<td>Globalization and Culture</td>
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<td>ANTH 375</td>
<td>Museum Methods</td>
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<td>ANTH 376</td>
<td>Exhibit Design</td>
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<tr>
<td>COMM 380</td>
<td>Visual Communication</td>
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<td>COMM 409</td>
<td>Latina/os, Media and Culture</td>
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<tr>
<td>COMM 410</td>
<td>Asian Media and Culture</td>
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<tr>
<td>COMM 411</td>
<td>Gender and Communication</td>
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</tbody>
</table>

**Total Units 27**

### Studio Art Course Options

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 304</td>
<td>Advanced Drawing and Life Drawing</td>
<td>5</td>
</tr>
<tr>
<td>ART 335</td>
<td>Intermediate Painting</td>
<td>5</td>
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<tr>
<td>ART 336</td>
<td>Advanced Painting</td>
<td>5</td>
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<tr>
<td>ART 361</td>
<td>Intermediate Printmaking</td>
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<tr>
<td>ART 362</td>
<td>Advanced Printmaking</td>
<td>5</td>
</tr>
<tr>
<td>ART 366</td>
<td>Topics in Studio Art</td>
<td>5</td>
</tr>
<tr>
<td>ART 391</td>
<td>Intermediate Photography</td>
<td>5</td>
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<tr>
<td>ART 492</td>
<td>Advanced Photography</td>
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#### Three Dimensional Spatial Arts

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>ART 308</td>
<td>Intermediate Woodworking and Furniture Design</td>
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</tr>
<tr>
<td>ART 340</td>
<td>Intermediate Sculpture</td>
<td>5</td>
</tr>
<tr>
<td>ART 341</td>
<td>Advanced Sculpture</td>
<td>5</td>
</tr>
<tr>
<td>ART 355</td>
<td>Intermediate Ceramics</td>
<td>5</td>
</tr>
<tr>
<td>ART 357</td>
<td>Advanced Ceramics</td>
<td>5</td>
</tr>
<tr>
<td>ART 369</td>
<td>Advanced Woodworking and Design</td>
<td>5</td>
</tr>
<tr>
<td>ART 370</td>
<td>Intermediate Glass</td>
<td>5</td>
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<tr>
<td>ART 373</td>
<td>Installation Art</td>
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<tr>
<td>ART 396</td>
<td>New Genres</td>
<td>5</td>
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<tr>
<td>ART 420</td>
<td>Art from 1900 to the Present (if not taken in Group A above)</td>
<td>5</td>
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<tr>
<td>ART 520</td>
<td>Contemporary Art, Theory and Criticism (if not taken in Group A above)</td>
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<tr>
<td>ART 414</td>
<td>Senior Studio Critique</td>
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<td>ART 415</td>
<td>Senior Seminar: Art and Society II</td>
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<tr>
<td>ART 416</td>
<td>Senior Project</td>
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**Total Units 96**
Bachelor of Arts in Art - Plan III (Art History)

Requirements (82 units)

Total units required for graduation: 180

This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies.

Requirements for the B.A. in Art - Plan III

<table>
<thead>
<tr>
<th>Lower-division requirements (28)</th>
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<tbody>
<tr>
<td>ART 120</td>
<td>Introduction to Two Dimensional Design</td>
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<tr>
<td>ART 121</td>
<td>Introduction to Three Dimensional Design</td>
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<tr>
<td>ART 122</td>
<td>Introduction to Drawing and Life Drawing</td>
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<tr>
<td>ART 123</td>
<td>Introduction to Art and Technology</td>
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<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
</tr>
<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
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<table>
<thead>
<tr>
<th>Upper-division requirements (42)</th>
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<tbody>
<tr>
<td>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.</td>
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<table>
<thead>
<tr>
<th>Group A:</th>
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<tbody>
<tr>
<td>ART 305</td>
<td>Women and Art</td>
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<tr>
<td>ART 306</td>
<td>Greek and Roman Art</td>
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<tr>
<td>ART 316</td>
<td>Arts of the Ancient Near East and Egypt</td>
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<tr>
<td>ART 321</td>
<td>Renaissance Art</td>
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<tr>
<td>ART 327</td>
<td>Baroque and Rococo Art</td>
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<thead>
<tr>
<th>Group B:</th>
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<td>ART 311</td>
<td>Art of the United States to the End of the Nineteenth Century</td>
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<table>
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<td>Greek and Roman Art</td>
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<tr>
<td>ART 316</td>
<td>Arts of the Ancient Near East and Egypt</td>
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<td>ART 321</td>
<td>Renaissance Art</td>
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<td>ART 327</td>
<td>Baroque and Rococo Art</td>
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<th>Requirements for the B.A. in Art - Plan III</th>
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<tbody>
<tr>
<td>ART 304</td>
<td>Advanced Drawing and Life Drawing</td>
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<td>Intermediate Woodworking and Furniture Design</td>
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<td>ART 320</td>
<td>Digital Image Editing</td>
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<td>Web Design</td>
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<td>ART 325</td>
<td>Advanced Digital Image Editing</td>
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<tr>
<td>ART 326</td>
<td>Interactive Multimedia Design</td>
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<tr>
<td>ART 330</td>
<td>Animation and Web Motion-Graphics</td>
</tr>
<tr>
<td>ART 335</td>
<td>Intermediate Painting</td>
</tr>
<tr>
<td>ART 336</td>
<td>Advanced Painting</td>
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<td>Interactive and Motion-Graphic</td>
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<td>Advanced Printmaking</td>
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<tr>
<td>ART 366</td>
<td>Topics in Studio Art</td>
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<td>ART 387</td>
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<td>ART 415</td>
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<td>ART 525</td>
<td>Seminar in Art History</td>
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</table>
### Foreign language requirement (12)
Twelve units or three quarters of one foreign language or equivalent proficiency.

Total Units 82

### Bachelor of Arts in Art - Plan IV (Graphic Design)

#### Requirements (95 units)

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 (36)

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<thead>
<tr>
<th>Course</th>
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<td>Introduction to Drawing and Life Drawing</td>
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<tr>
<td>ART 124</td>
<td>Introduction to Digital Media Design</td>
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<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
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<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
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<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
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<tr>
<td>ART 232</td>
<td>Principles of Design Management</td>
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<td>ART 238</td>
<td>Production of Visual Information Design</td>
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##### Upper-division requirements (49)

Art history. Four units chosen from:

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<tr>
<td>ART 305</td>
<td>Women and Art</td>
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<td>ART 306</td>
<td>Greek and Roman Art</td>
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<td>ART 310</td>
<td>Asian Art</td>
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<td>ART 311</td>
<td>Art of the United States to the End of the Nineteenth Century</td>
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<tr>
<td>ART 314</td>
<td>The Art of Indigenous Peoples</td>
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<tr>
<td>ART 316</td>
<td>Arts of the Ancient Near East and Egypt</td>
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<td>ART 321</td>
<td>Renaissance Art</td>
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<td>Native North American Art</td>
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<td>ART 324</td>
<td>Pre-Columbian Art</td>
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<tr>
<td>ART 327</td>
<td>Baroque and Rococo Art</td>
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<td>ART 328</td>
<td>Mexican Art</td>
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<td>ART 329</td>
<td>Chicano Art</td>
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<td>ART 334</td>
<td>History of Animation</td>
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<td>ART 359</td>
<td>History of Photography</td>
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<td>Studies in Art History</td>
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<td>Art from 1900 to the Present</td>
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<td>Nineteenth Century European Art</td>
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<td>Contemporary Art, Theory and Criticism</td>
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<td>ART 322</td>
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<tr>
<td>ART 333</td>
<td>History of Graphic Design</td>
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<td>ART 342</td>
<td>Graphic Design I</td>
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<tr>
<td>ART 343</td>
<td>Graphic Design II</td>
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<tr>
<td>ART 344</td>
<td>Graphic Design III</td>
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<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>ART 384</td>
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<tr>
<td>ART 443</td>
<td>Graphic Design V</td>
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##### Elective studio art courses (10)

Two five-unit courses chosen from:

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<tr>
<td>ART 240</td>
<td>Beginning Sculpture</td>
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<tr>
<td>ART 254</td>
<td>Beginning Ceramics</td>
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<td>ART 260</td>
<td>Beginning Printmaking</td>
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<td>ART 268</td>
<td>Beginning Woodworking and Furniture Design</td>
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<tr>
<td>ART 290</td>
<td>Beginning Analog Photography</td>
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<td>ART 291</td>
<td>Beginning Digital Photography</td>
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<tr>
<td>ART 304</td>
<td>Advanced Drawing and Life Drawing</td>
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<tr>
<td>ART 308</td>
<td>Intermediate Woodworking and Furniture Design</td>
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<tr>
<td>ART 313</td>
<td>Printing Production</td>
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<td>ART 320</td>
<td>Digital Image Editing</td>
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<td>ART 325</td>
<td>Advanced Digital Image Editing</td>
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<tr>
<td>ART 326</td>
<td>Interactive Multimedia Design</td>
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<tr>
<td>ART 330</td>
<td>Animation and Web Motion-Graphics</td>
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<tr>
<td>ART 335</td>
<td>Intermediate Painting</td>
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<tr>
<td>ART 336</td>
<td>Advanced Painting</td>
<td></td>
</tr>
<tr>
<td>ART 337</td>
<td>Interactive and Motion-Graphic</td>
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<tr>
<td>ART 340</td>
<td>Intermediate Sculpture</td>
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<tr>
<td>ART 341</td>
<td>Advanced Sculpture</td>
<td></td>
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<tr>
<td>ART 350</td>
<td>Introduction to Digital Illustration</td>
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<td>ART 351</td>
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<td>ART 357</td>
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<tr>
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<td>Sound Design for Multimedia</td>
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<tr>
<td>ART 387</td>
<td>Video Art</td>
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<td>ART 388</td>
<td>Digital Lighting</td>
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<tr>
<td>ART 396</td>
<td>New Genres</td>
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<tr>
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<td>Dynamic Web Site Design</td>
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<tr>
<td>ART 492</td>
<td>Advanced Photography</td>
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Total Units 95
Bachelor of Arts in Art - Plan V (Graphic Design and Marketing)

Requirements (98 units)

Total units required for graduation: 180

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

Requirements for the B.A. in Art - Plan V

Lower-division requirements (36)

<table>
<thead>
<tr>
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<tr>
<td>ACCT 211</td>
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<td>ART 120</td>
<td>Introduction to Two Dimensional Design</td>
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<tr>
<td>ART 124</td>
<td>Introduction to Digital Media Design</td>
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</tr>
<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
<td>4</td>
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<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
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<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
<td>4</td>
</tr>
<tr>
<td>ART 232</td>
<td>Principles of Design Management</td>
<td>4</td>
</tr>
<tr>
<td>ART 238</td>
<td>Production of Visual Information Design</td>
<td>4</td>
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</table>

Four units chosen from:

- ECON 200 Principles of Microeconomics
- ECON 202 Principles of Macroeconomics
- MGMT 100 Introduction to Business and Public Administration

Upper-division requirements (50)

<table>
<thead>
<tr>
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<td>ART 333</td>
<td>History of Graphic Design</td>
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<tr>
<td>ART 384</td>
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<td>ART 442</td>
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<td>MKTG 410</td>
<td>Consumer Behavior</td>
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<td>MKTG 446</td>
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Twelve units chosen from (if not taken previously): 12

- ART 301 Topics in Studio Art for Non-Majors
- ART 322 Web Design
- ART 575A-E Internship
- ECON 200 Principles of Microeconomics
- ECON 202 Principles of Macroeconomics
- MGMT 100 Introduction to Business and Public Administration
- MGMT 302 Management and Organizational Behavior
- MGMT 442 Small Business Management
- MKTG 416 Marketing Research
- MKTG 430 Professional Selling and Sales Management
- MKTG 470 International Marketing Management
- MKTG 496 Marketing Planning and Strategy
- MKTG 575B Internship in Marketing

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 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 of upper-division studio comparable to those required of a major in art at this University. (The Art Department determines which courses are comparable);
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 artwork 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.
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 Graduate Degree and Program Requirements (p. 60).

Degree Requirements (45 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 520</td>
<td>Contemporary Art, Theory and Criticism</td>
<td>4</td>
</tr>
<tr>
<td>ART 595A-F</td>
<td>Independent Study (chosen in consultation with the art education advisor)</td>
<td>7</td>
</tr>
<tr>
<td>ART 596</td>
<td>Strategies for Curriculum and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>ART 603</td>
<td>Graduate Studio in Art (for a total of 8)</td>
<td>8</td>
</tr>
<tr>
<td>ART 620B</td>
<td>Graduate Studio Critique (for a total of 4)</td>
<td>4</td>
</tr>
<tr>
<td>ART 618</td>
<td>Graduate Seminar in Contemporary Art Issues and Practices</td>
<td>4</td>
</tr>
<tr>
<td>ART 641</td>
<td>Art Education: Survey of Research and Methodologies</td>
<td>4</td>
</tr>
<tr>
<td>ART 643</td>
<td>Art Education: Research Statement and Literature Review</td>
<td>2</td>
</tr>
<tr>
<td>ART 696</td>
<td>Art Education: Master's Project in Art Education</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

Total Units 45

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 695D. 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 in Graduate Degree and Program Requirements (p. 60).

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)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 520 Contemporary Art, Theory and Criticism</td>
<td>4</td>
</tr>
<tr>
<td>Fifteen units in a single area of concentration chosen from:</td>
<td>15</td>
</tr>
<tr>
<td>ART 603 Graduate Studio in Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 604 Graduate Studio in Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 615A-D Graduate Seminar in Art (for a total of 4 units)</td>
<td>4</td>
</tr>
<tr>
<td>ART 620B Graduate Studio Critique (for a total of 6)</td>
<td>6</td>
</tr>
<tr>
<td>ART 630 Professional Practices in the Visual Arts</td>
<td>4</td>
</tr>
<tr>
<td>ART 695D Masters Project in Studio Art</td>
<td>4</td>
</tr>
<tr>
<td>Four units of upper-division art history courses chosen with prior approval of the student’s area advisor and the art department graduate coordinator</td>
<td>4</td>
</tr>
<tr>
<td>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</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td>45</td>
</tr>
</tbody>
</table>

Master of Fine Arts in Studio Art and Design

Requirements (90 units)

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 artwork in the form of jpegs 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.

Graduate Teaching Assistantships

Students interested in university teaching are encouraged to apply for Graduate Teaching Assistantships. The program offers second year students teaching assistant opportunities with professors in lower division studio and foundation courses. After the practicum is successfully completed, the second and third year students have the opportunity for paid Graduate Teaching Assistantship.

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. 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 applicable 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 in Graduate Degree and Program Requirements (p. 60).

Degree Requirements (90 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 595A-F</td>
<td>Independent Study (for a total of 5 units)</td>
<td>5</td>
</tr>
<tr>
<td>ART 604</td>
<td>Graduate Studio in Art (for a total of 30)</td>
<td>30</td>
</tr>
<tr>
<td>ART 617</td>
<td>Graduate Seminar in Critical Theory and Methodology</td>
<td>4</td>
</tr>
<tr>
<td>ART 618</td>
<td>Graduate Seminar in Contemporary Art Issues and Practices</td>
<td>4</td>
</tr>
<tr>
<td>ART 620D</td>
<td>Graduate Studio Critique (for a total of 24)</td>
<td>24</td>
</tr>
<tr>
<td>ART 630</td>
<td>Professional Practices in the Visual Arts</td>
<td>4</td>
</tr>
<tr>
<td>ART 695E</td>
<td>Masters Project in Studio Art</td>
<td>5</td>
</tr>
<tr>
<td>Art History Elective (to be approved by the graduate coordinator.)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

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.

Total Units

90

Minor in Art History

Requirements (32 units)

Requirements for a minor in Art History

Lower-division requirements (16)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 200</td>
<td>Studies in Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
<td>4</td>
</tr>
<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
<td>4</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-division requirements (16)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 305</td>
<td>Women and Art</td>
</tr>
</tbody>
</table>
### Minor in Studio Art

**Requirements (43 units)**

#### Lower-division requirements (28)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Introduction to Two Dimensional Design</td>
<td>4</td>
</tr>
<tr>
<td>ART 121</td>
<td>Introduction to Three Dimensional Design</td>
<td>4</td>
</tr>
<tr>
<td>ART 122</td>
<td>Introduction to Drawing and Life Drawing</td>
<td>4</td>
</tr>
<tr>
<td>ART 123</td>
<td>Introduction to Art and Technology</td>
<td>4</td>
</tr>
<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
<td>4</td>
</tr>
<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
<td>4</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Studio course (5)

One lower-division course chosen from:

- ART 235  Beginning Painting
- ART 240  Beginning Sculpture
- ART 254  Beginning Ceramics
- ART 260  Beginning Printmaking
- ART 268  Beginning Woodworking and Furniture Design
- ART 270  Beginning Glass
- ART 290  Beginning Analog Photography
- ART 291  Beginning Digital Photography

#### Upper-division requirements (10)

Studio courses:

Two five-unit courses chosen from:

- ART 304  Advanced Drawing and Life Drawing
- ART 308  Intermediate Woodworking and Furniture Design
- ART 313  Printing Production
- ART 320  Digital Image Editing
- ART 322  Web Design
- ART 325  Advanced Digital Image Editing
- ART 326  Interactive Multimedia Design
- ART 335  Intermediate Painting
- ART 336  Advanced Painting
- ART 337  Interactive and Motion-Graphic
- ART 340  Intermediate Sculpture
- ART 341  Advanced Sculpture
- ART 355  Intermediate Ceramics
- ART 357  Advanced Ceramics
- ART 361  Intermediate Printmaking
- ART 362  Advanced Printmaking
- ART 369  Advanced Woodworking and Design
- ART 370  Intermediate Glass
- ART 382  Computer Animation: 3D Modeling
- ART 383  Computer Animation: Character Modeling
- ART 384  Digital Motion Imaging
- ART 385  Sound Design for Multimedia
- ART 387  Video Art
- ART 388  Digital Lighting
- ART 391  Intermediate Photography

### Minor in Graphic Design - Print

**Requirements (33 units)**

#### Requirements for a minor in Graphic Design - Print

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 232</td>
<td>Principles of Design Management</td>
<td>4</td>
</tr>
<tr>
<td>ART 238</td>
<td>Production of Visual Information Design</td>
<td>4</td>
</tr>
<tr>
<td>ART 342</td>
<td>Graphic Design I</td>
<td>5</td>
</tr>
<tr>
<td>ART 343</td>
<td>Graphic Design II</td>
<td>5</td>
</tr>
<tr>
<td>ART 344</td>
<td>Graphic Design III</td>
<td>5</td>
</tr>
<tr>
<td>ART 442</td>
<td>Graphic Design IV</td>
<td>5</td>
</tr>
<tr>
<td>ART 443</td>
<td>Graphic Design V</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units 33

### Minor in Graphic Design - Web

**Requirements (33 units)**

#### Requirements for a minor in Graphic Design - Web

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 232</td>
<td>Principles of Design Management</td>
<td>4</td>
</tr>
<tr>
<td>ART 238</td>
<td>Production of Visual Information Design</td>
<td>4</td>
</tr>
<tr>
<td>ART 320</td>
<td>Digital Image Editing</td>
<td>5</td>
</tr>
<tr>
<td>ART 322</td>
<td>Web Design</td>
<td>5</td>
</tr>
<tr>
<td>ART 326</td>
<td>Interactive Multimedia Design</td>
<td>5</td>
</tr>
<tr>
<td>ART 337</td>
<td>Interactive and Motion-Graphic</td>
<td>5</td>
</tr>
<tr>
<td>ART 422</td>
<td>Dynamic Web Site Design</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units 33
ART 396  New Genres
ART 422  Dynamic Web Site Design
ART 471  Advanced Glass
ART 492  Advanced Photography

Total Units  43

Certificate in Business Skills for the Artist

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 442</td>
<td>Small Business Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twenty units of upper-division studio art courses chosen in consultation with an advisor.</td>
<td>20</td>
</tr>
</tbody>
</table>

Total Units  32
Bachelor of Arts

• Communication
• with concentrations in
  • Human and Organizational Communication
  • Media Studies
  • Public Relations

Teacher Preparation Program

English - Communication Studies Concentration

Minors

• Asian Studies
• Communication
• Film Studies
• Intercultural Communication
• Public Relations
• Script Writing

Certificate Programs

• Asian Studies
• Communication Skills
• Conflict Management

Master of Arts

• Communication Studies with tracks in
  • Communication Studies
  • Integrated Marketing Communication

• 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.

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.

Current Faculty

Ece Algan, Associate Professor
B.S. 1994, Istanbul Teknik University
M.A. 1996, Marmara University-Istanbul
Ph.D. 2003, Ohio University

C. Mo Bahk, Professor
B.A. 1980, Yonsei University, Seoul, Korea
M.A. 1983/1990, State University of New York, Albany
Ph.D. 1994, Michigan State University

Rueyling Chuang, Professor
B.A. 1987, Tamkang University, Taiwan
M.S. 1992, California State University, Hayward
Ph.D. 1996, Ohio University, Athens

Thomas Corrigan, Assistant Professor
Ph.D. 2012, Pennsylvania State University

Risa E. Dickson, Professor
B.A. 1987, California State University, Northridge
M.A. 1990, Ph.D. 1991, University of Southern California

Mary Fong, Professor, Coordinator
B.A. 1981, University of Southern California
M.A. 1984, California State University, Long Beach
Ph.D. 1994, University of Washington

Donald Girard, Lecturer
M.B.A., 1979, Ohio University - Main Campus

Donna Gotch, Lecturer
B.A. 1984, M.A. 1986, California State University, Los Angeles

Jo Anna Grant, Professor
B.A. 1988, M.S. 1990, Texas Christian University
Ph.D. 1996, University of Oklahoma, Norman

Brian Heisterkamp, Professor
B.A. 1989, Arizona State University
M.A. 1997, Loma Linda University
Ph.D. 2000, Arizona State University

Heather L. Hundley, Professor, Assistant Dean
B.A. 1992, M.A. 1994, California State University, Sacramento
Ph.D. 1999, University of Utah

Fred E. Jandt, Professor, Dean
B.A. 1966, Texas Lutheran College
M.A. 1967, Stephen F. Austin State University
Ph.D. 1970, Bowling Green State University

Ahlam H. Muhtaseb, Associate Professor
B.A. 1994, Hebro University
M.A. 2000, Ph.D. 2004, University of Memphis

Bradford (Kensil) Owen, Associate Professor
B.A. 1979, Loyola Marymount University

Mihaela Popescu, Associate Professor
B.A. 1994, University of Bucharest, Romania
M.A. 2001, Ph.D. 2008, University of Pennsylvania

Jose Rivera, Lecture
M.A. 2011, California State University, San Bernardino

Michael Salvador, Chair

Michael Salvador, Professor, Chair
Ph.D., University of Utah, 1989

Astrid Sheil, Associate Professor, Interim Chair Accounting and Finance
B.S. 1977, Georgetown University
M.S. 1998, University of Tennessee
Ph.D. 2003, University of Tennessee

Emeriti
Kevin Lamude, Professor
Robin Larsen, Professor
Dolores Tanno, Professor

Undergraduate Degrees

Bachelor of Arts
- Communication with concentrations in (p. 209)
- Human Communication and Organizational Communication
- Media Studies
- Public Relations

Graduate Degrees

Master of Arts
- Communication Studies (p. 210) with tracks in
  - Communication Studies
  - Integrated Marketing Communication

Minors
- Asian Studies (p. 213)
  Coordinator: Rueyling Chuang
- Communication (p. 214)
- Film Studies (p. 214)
- Intercultural Communication (p. 215)
- Public Relations (p. 215)
- Script Writing (p. 215)

Certificate Programs
- Asian Studies (p. 216)
  Coordinator: Rueyling Chuang
- Communication Skills (p. 216)
- Conflict Management (p. 217)

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 (p. 232) as well as the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMM 304</td>
<td>Intercultural Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 382</td>
<td>Intercollegiate Forensics</td>
<td>3</td>
</tr>
<tr>
<td>COMM 431</td>
<td>Classroom Communication</td>
<td>4</td>
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<tr>
<td>Four units chosen from:</td>
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<tr>
<td>COMM 305</td>
<td>Critical Approaches to Communication</td>
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<td>COMM 308</td>
<td>Argumentation</td>
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<td>COMM 312</td>
<td>Persuasion</td>
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<td>COMM 401</td>
<td>Gender, Race and Media</td>
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<tr>
<td>COMM 411</td>
<td>Gender and Communication</td>
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</tbody>
</table>

Four units chosen from: 4

Emphasis:

- Communication with concentrations in (p. 209)
- Human Communication and Organizational Communication
- Media Studies
- Public Relations
Courses

COMM 120. Oral Communication. 4 Units.

Introduction to effective speech communication with emphasis on informative and persuasive public speaking and presentation skills.

COMM 180. Critical Thinking Through Argumentation. 4 Units.

Principles of oral argumentation and forensics: evidence, methods of logical analysis, reasoned discourse demonstrated through argumentative speeches and debates.

COMM 200. Introduction to Communication Studies. 4 Units.

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.

COMM 204. Introduction to Critical Communication Studies. 4 Units.

Survey of the history and study of rhetoric as it contributes to a critical understanding of the role of communication in society.

COMM 221. Small Group Communication. 4 Units.

Theories of communication applied to small group situations emphasizing decision-making processes.

COMM 225. Fundamentals of Interpersonal Communication. 4 Units.

A skills development course designed to facilitate students' acquisition of basic face-to-face communication competencies such as building and maintaining communication climates, listening, perception, self-disclosure, and verbal and non-verbal communication.

COMM 240. Writing for Media. 4 Units.

Prerequisites: satisfaction of the GE written communication (A1) requirement and word processing ability. Development of basic writing skills and practices appropriate for print, electronic, and digital media.

COMM 243A. Communication Practicum: Print and Online Journalism. 3 Units.

Practical application of communication skills. COMM 243A, COMM 243B, COMM 243C, COMM 243D, or COMM 243E 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.

COMM 243B. Communication Practicum: Radio. 3 Units.

Practical application of communication skills. COMM 243A, COMM 243B, COMM 243C, COMM 243D, or COMM 243E 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.

COMM 243C. Communication Practicum: Video Production for Journalism. 3 Units.

Prerequisites: COMM 243A.

Practical application of communication skills. COMM 243A, COMM 243B, COMM 243C, COMM 243D, or COMM 243E 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.

COMM 243D. Communication Practicum: Public Relations. 3 Units.

Practical application of communication skills. COMM 243A, COMM 243B, COMM 243C, COMM 243D, or COMM 243E 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.
COMM 243E. Communication Practicum: Human and Organizational Communication. 3 Units.
Practical application of communication skills. COMM 243A, COMM 243B, COMM 243C, COMM 243D, or COMM 243E 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.

COMM 245. Introduction to TV and Video Production. 5 Units.
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.

COMM 302. Communication, Language and Culture. 4 Units.
Contemporary theories of language as they relate to the communication process, including the coding system of signs, symbols, and meanings of cultural groups.

COMM 304. Intercultural Communication. 4 Units.
( GE=G2)
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.

COMM 305. Critical Approaches to Communication. 4 Units.
Contemporary approaches to media and rhetorical criticism, with emphasis on television, film and public discourse.

COMM 306. Communication Theory. 4 Units.
Prerequisites: COMM 200
Traditional and contemporary approaches to communication theory, including an examination of the areas of rhetorical, human, and mediated communication.

COMM 307. Rhetorical Theory. 4 Units.
Discussion of rhetorical theories from classical Greeks to the contemporary period. Emphasis on the nature, function, and scope of rhetorical theories.

COMM 308. Argumentation. 4 Units.
Prerequisites: completion of General Education Critical Thinking requirement
Advanced principles of argumentation: perspectives, analysis and practice.

COMM 309. Digital Media and Communication. 4 Units.
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. Formerly COMM 509.

COMM 311. Business and Professional Communication. 4 Units.
Prerequisites: COMM 120 or equivalent
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.

COMM 312. Persuasion. 4 Units.
Study and application of rhetorical, social-psychological and mass behavior principles.

COMM 320. Media History and Institutions. 4 Units.
Prerequisites: COMM 200
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.

COMM 321. Media and Culture. 4 Units.
Prerequisites: completion of COMM 320 or consent of instructor
Analysis of media texts and products as they relate to issues of social impact, identity, representation and economics.

COMM 330. Nonverbal Communication. 4 Units.
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.

COMM 331. Communication for Training Programs. 4 Units.
Techniques and functions of training programs in professional and technical settings.

COMM 334. Travel Feature Writing. 4 Units.
Mastery of essay, service and destination travel writing, among other travel writing forms. Interpreting, reporting, researching, organizing, drafting and editing travel writing during summer study-abroad program jointly administered by communication studies at CSUSB and communication at CSU Fullerton.

COMM 335. Introduction to Digital Video Editing. 4 Units.
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.

COMM 341. Public Relations Theory and Principles. 4 Units.
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.
COMM 342. Publication Design and Makeup. 4 Units.
Prerequisites: COMM 240
Designing newspaper, magazine and online publications. Includes concept development, planning and composition, typo-graphics, infographics, mastheads, illustration, and desktop publishing. Ethical considerations discussed.

COMM 343. Nonfiction Reporting and Writing. 4 Units.
Prerequisites: COMM 240
Methods and procedures for reporting and writing long nonfiction in both public and private sectors.

COMM 344. Public Relations Communication. 4 Units.
Prerequisites: COMM 240 and COMM 341 or consent of instructor
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.

COMM 345. Advanced TV and Video Production. 5 Units.
Prerequisites: COMM 245 with a grade of B (3.0) or better
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.

COMM 346. TV and Video Field Production. 5 Units.
Prerequisites: COMM 345 with a grade of B (3.0) or better
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.

COMM 347. Fundamentals of Screenwriting. 4 Units.
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.

COMM 348. Television News Writing and Reporting. 4 Units.
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.

COMM 349. Online Reporting and Writing. 4 Units.
Prerequisites: COMM 240
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.

COMM 350. Online Journalism Production. 4 Units.
Prerequisites: COMM 240
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.

COMM 352. Entertainment Media Management. 4 Units.
Prerequisites: COMM 320, MGMT 302, or consent of instructor
Examines issues in the management of film, radio, television, and internet-based entertainment media in the context of a rapidly evolving entertainment industry environment.

COMM 354. Topics in Human and Organizational Communication. 4 Units.
Special topics in human and organizational communication. May be repeated for credit as topics change. Formerly COMM 585.

COMM 355. Topics in Media Studies. 4 Units.
Special topics in media studies. May be repeated for credit as topics change. Formerly COMM 386 and 587.

COMM 356. Topics in Public Relations. 4 Units.
Special topics in public relations. May be repeated for credit as topics change.

COMM 357. Contemporary Cinema and Society. 4 Units.
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 386.

COMM 358. Visual Communication. 4 Units.
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.

COMM 359. The Development of Motion Pictures. 4 Units.
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.

COMM 360. Intercollegiate Forensics. 3 Units.
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, 244A, 444B, and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.
COMM 387. Digital Audio/Radio Production. 4 Units.
Prerequisites: COMM 243B or consent of instructor
Techniques and principles of digital audio recording, editing, mixing for radio programming such as newscasts, commercials, public service announcements and promotional announcements. Three hours lecture and two hours laboratory.

COMM 388. Topics in Intercultural Communication. 4 Units.
Special topics in intercultural communication. May be repeated for credit as topics change.

COMM 399A. Community Service Project. 1 Unit.
Prerequisites: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken
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. For the practicum courses of COMM 243, COMM 382, COMM 399 and COMM 444, no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

COMM 399B. Community Service Project. 2 Units.
Prerequisites: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken
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. For the practicum courses of COMM 243, COMM 382, COMM 399 and COMM 444, no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

COMM 400. Communication Research Methodology. 4 Units.
Prerequisites: COMM 200, 304 and 306
Study and application of basic historical, descriptive, critical and experimental research skills unique to communication. Data analysis. Includes ethical considerations of communication research.

COMM 401. Gender, Race and Media. 4 Units.
(GE=G2)
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.

COMM 402. Ethnography of Communication. 4 Units.
Prerequisites: COMM 302 and 304 or equivalent or consent of instructor
Ethnographic frameworks and principles for conducting research on communication within and across cultural boundaries. Includes foci on case studies, interviewing and field work.

COMM 403. Interpersonal Relations. 4 Units.
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.

COMM 405. Media Effects. 4 Units.
History of research in understanding media effects on individuals and society.

COMM 409. Latina/os, Media and Culture. 4 Units.
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.

COMM 410. Asian Media and Culture. 4 Units.
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 TB soap operas, and Asian cybercultures.

COMM 411. Gender and Communication. 4 Units.
A critical and sociological examination of how gender is socialized, constructed, communicated and performed in various communicative contexts.

COMM 415. Advertising as Social Communication. 4 Units.
Theories of advertising: social, political and economic roles in modern society.

COMM 421. Organizational Communication. 4 Units.
Study of current organizational communication theory and application to the management of communication within the organization.

COMM 422. Communication and Conflict. 4 Units.
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.

COMM 424. Film Analysis. 4 Units.
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.

COMM 425. Film and New Media. 4 Units.
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.

COMM 431. Classroom Communication. 4 Units.
Prerequisites: COMM 120 or equivalent
Communication skills in instructional settings, including strategies to facilitate understanding and analysis of classroom behavioral models.

COMM 441. Interviewing. 4 Units.
Prerequisites: COMM 120 or equivalent
Interviewing in formal and informal settings. Understanding of employment, journalistic, informative and persuasive interviews.
COMM 442. Public Relations Campaigns. 4 Units.
Prerequisites: COMM 344
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.

COMM 444A. Advanced Communication Practicum: Television. 3 Units.
Prerequisites: COMM 245, COMM 345, and COMM 346, with a grade of B (3.0) or better in COMM 346
Advanced application of communication theory and methods. COMM 243A, COMM 243B, COMM 243D, COMM 382, COMM 444A, COMM 444B and COMM 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.

COMM 444B. Advanced Communication Practicum: Research. 3 Units.
Prerequisites: COMM 306
Advanced application of communication theory and methods. COMM 243A, 243B, 243D, 382, 444A, 444B and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

COMM 444C. Advanced Communication Practicum: Research. 2 Units.
Prerequisites: COMM 306
Advanced application of communication theory and methods. COMM 243A, COMM 243B, COMM 243D, COMM 382, COMM 444A, COMM 444B and COMM 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.

COMM 444D. Advanced Communication Practicum: Mentoring. 3 Units.
Prerequisites: COMM 225, COMM 331 or COMM 403 or equivalent or permission of instructor
Advanced application of communication theory and methods. COMM 243A, COMM 243B, COMM 243D, COMM 382, COMM 444A, COMM 444B and COMM 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.

COMM 447. Italian Cinema. 4 Units.
Historical, theoretical and interpretive approaches to Italian cinema, from postwar Neo-realist to Post-modernist millennial era.

COMM 448. Documentary Production. 4 Units.
Prerequisites: COMM 245, 345 and 346
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.

COMM 449. Fiction Production. 4 Units.
Prerequisites: COMM 245, 345, and 346
Fiction/dramatic digital video documentary 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.

COMM 450. Media Audiences. 4 Units.
Methods used for understanding the relationship between media producers, the audience, and other social forces.

COMM 471. International Communication. 4 Units.
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.

COMM 481. History and Development of Documentary. 4 Units.
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.

COMM 491. Ethical Aspects of Communication. 4 Units.
Prerequisites: COMM 200, COMM 306 and COMM 400 or consent of department
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.

COMM 499. Senior Project. 1 Unit.
Prerequisites: COMM 200, COMM 304, COMM 306, and COMM 400 and completion of 132 units with a minimum of 44 units in the major
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.

COMM 502. Communication Law and Policy. 4 Units.
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.

COMM 506. Media Sex and Violence. 4 Units.
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.
COMM 511. Feminist Contributions to Communication Theories. 4 Units.
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.

COMM 520. Integrated Marketing Communication. 4 Units.
Prerequisites: MKTG 305 or MKTG 605
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.).

COMM 522. Mediation Theory and Practice. 4 Units.
Prerequisites: COMM 422 or permission of instructor
Exploration of the theories, methods, and techniques of mediation as a collaborative process of resolving conflicts among individuals, groups, organizations, and nations. Third party intervention skills needed to serve as a mediator are developed through simulation exercises. Formerly a topic under COMM 585.

COMM 542. Issue Management and Crisis Communication. 4 Units.
Prerequisites: COMM 344 or equivalent or consent of instructor
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.

COMM 543. Environmental Communication. 4 Units.
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.

COMM 550. Muslim Women in Media and Society. 4 Units.
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.

COMM 560. Health Communication. 4 Units.
Prerequisites: COMM 200 and COMM 306 or consent of instructor
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.

COMM 564. Advanced Topics in Human and Organizational Communication. 4 Units.
Prerequisites: junior, senior or graduate standing
Advanced special topics in human and organizational communication. May be repeated for credit as topics change.

COMM 565. Advanced Topics in Media Studies. 4 Units.
Prerequisites: junior, senior or graduate standing
Advanced special topics in media studies. May be repeated for credit as topics change.

COMM 567. Advanced Topics in Public Relations. 4 Units.
Prerequisites: junior, senior or graduate standing
Advanced special topics in public relations. May be repeated for credit as topics change.

COMM 580. Culture and Ethnicity in Language. 4 Units.
Prerequisites: COMM 304 or equivalent
Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity.

COMM 581. Contemporary Theories of Rhetoric. 4 Units.
Study of 20th century conceptualizations of rhetoric and intercultural communication with an emphasis on contemporary public discourse in different cultural settings.

COMM 591B. Internship in Communication. 2 Units.
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 the quarter prior to that in which the internship is to take place
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.

COMM 591C. Internship in Communication. 3 Units.
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 the quarter prior to that in which the internship is to take place
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.

COMM 591D. Internship/ in Communication. 4 Units.
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 the quarter prior to that in which the internship is to take place
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.
COMM 591E. Internship in Communication. 5 Units.
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 the quarter prior to that in which the internship is to take place.
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.

COMM 593A. Communication Approaches to Area Studies: Africa. 4 Units.
Prerequisites: COMM 304 or equivalent
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.

COMM 593B. Communication Approaches to Area Studies: Asia-Pacific. 4 Units.
Prerequisites: COMM 304 or equivalent
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.

COMM 593C. Communication Approaches to Area Studies: Europe. 4 Units.
Prerequisites: COMM 304 or equivalent
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.

COMM 593D. Communication Approaches to Area Studies: Latin America. 4 Units.
Prerequisites: COMM 304 or equivalent
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.

COMM 595B. Independent Study. 2 Units.
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
Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation.

COMM 595C. Independent Study. 3 Units.
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
Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation.

COMM 595D. Independent Study. 4 Units.
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
Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation.

COMM 595E. Independent Study. 5 Units.
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
Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation.

COMM 600. Introduction to Graduate Study. 4 Units.
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.

COMM 601. Intercultural Communication Theories. 4 Units.
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 first year.

COMM 602. Quantitative Research Methods in Communication Studies. 4 Units.
Prerequisites: COMM 400 and COMM 600, or consent of department 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.

COMM 603. Qualitative Research Methods in Communication. 4 Units.
Prerequisites: COMM 600 or 605
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.

COMM 605. Introduction to Graduate Studies in Integrated Marketing Communication. 4 Units.
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.
COMM 609. Digital Culture. 4 Units.
Prerequisites: COMM 309 or consent of department
Examination of the interactions among communication technology, new media, and culture with particular focus on intercultural and global communication. (4 units.)

COMM 610. Media and Intercultural Relations.
4 Units.
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.

COMM 620. Communication in Multicultural Organizations. 4 Units.
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.

COMM 630. Instructional Communication. 4 Units.
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.

COMM 670. Seminar in Conflict and Conflict Resolution. 4 Units.
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.

COMM 671. International Communication. 4 Units.
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.

COMM 672. Intercultural Peacemaking. 4 Units.
Study of communication strategies for international and domestic peacemaking among diverse groups and interests.

COMM 673. Advanced Mediation Skills. 4 Units.
Prerequisites: COMM 522 or equivalent
Application of selected mediation theories and skills such as group facilitation, group development, and language analysis.

COMM 685. Thesis or Project Proposal/Comprehensive Examination Preparation. 2 Units.
Prerequisites: completion of 24 units in the program, advancement to candidacy, and consent of graduate coordinator
Preparation of the thesis or project proposal, or preparation for comprehensive examination. Graded credit/no credit.

COMM 686. Graduate Project. 5 Units.
Prerequisites: advancement to candidacy
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.

COMM 689. Practicum for Teaching Assistants in Communication Studies. 1 Unit.
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.

COMM 690. Seminar in Organizational Communication. 4 Units.
Prerequisites: COMM 421 or consent of department
Intensive study of selected topics in organizational communication. May be repeated for credit as topics change.

COMM 691. Seminar in Public Relations. 4 Units.
Prerequisites: COMM 341 or equivalent
Intensive study of selected topics in public relations. May be repeated for credit as topics change.

COMM 692. Seminar in Interpersonal Communication. 4 Units.
Intensive study of selected topics in interpersonal communication. May be repeated for credit as topics change.

COMM 693. Seminar in Mass Communication. 4 Units.
Intensive study of selected topics in mass communication. May be repeated for credit as topics change.

COMM 694. Seminar in Intercultural Communication. 4 Units.
Prerequisites: COMM 304 or equivalent
Intensive study of selected topics in intercultural communication. May be repeated for credit as topics change.

COMM 695B. Graduate Independent Study. 2 Units.
Prerequisites: approval by the student’s committee
Advanced reading/research on a specific topic relevant to the students program of study.

COMM 695C. Graduate Independent Study. 3 Units.
Prerequisites: approval by the students committee
Advanced reading/research on a specific topic relevant to the students program of study.

COMM 695D. Graduate Independent Study. 4 Units.
Prerequisites: approval by the students committee
Advanced reading/research on a specific topic relevant to the students program of study.
COMM 695E. Graduate Independent Study. 5 Units.
Prerequisites: approval by the students committee
Advanced reading/research on a specific topic relevant to the students program of study.

COMM 696B. Practicum in Intercultural Living. 2 Units.
Prerequisites: COMM 602 or 603, approval of students 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
Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit.

COMM 696C. Practicum in Intercultural Living. 3 Units.
Prerequisites: COMM 602 or 603, approval of students 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
Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit.

COMM 696D. Practicum in Intercultural Living. 4 Units.
Prerequisites: COMM 602 or 603, approval of students 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
Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit.

COMM 696E. Practicum in Intercultural Living. 5 Units.
Prerequisites: COMM 602 or 603, approval of students 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
Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit.

COMM 697B. Internship in Communication. 2 Units.
Prerequisites: approval of students 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
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.

COMM 697C. Internship in Communication. 3 Units.
Prerequisites: approval of students 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
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.

COMM 697D. Internship in Communication. 4 Units.
Prerequisites: approval of students 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
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.

COMM 697E. Internship in Communication. 5 Units.
Prerequisites: approval of students 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
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.

COMM 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
COMM 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 699. Thesis. 5 Units.
Prerequisites: approval of prospectus by the students advisory committee, advancement to candidacy, completion of all other required courses for the M.A. or consent of department.
Independent graduate research culminating in a written thesis.
COMM 999. Comprehensive Examination. 0 Units.
Prerequisites: COMM 685, advancement to candidacy, approval of department, completion of course work in the master’s program, and in good academic standing.
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.

Bachelor of Arts in Communication

Requirements (77 units)
Total units required for graduation: 180

Requirements for the B.A. in Communication

Core Courses (21)
- COMM 200 Introduction to Communication Studies 4
- COMM 304 Intercultural Communication 4
- COMM 306 Communication Theory 4
- COMM 400 Communication Research Methodology 4
- COMM 491 Ethical Aspects of Communication 4
- COMM 499 Senior Project 1

Communication Practica (8)
Students must choose eight units from at least two of the following:
- COMM 243A Communication Practicum: Print and Online Journalism 4
- COMM 243B Communication Practicum: Radio 4
- COMM 243C Communication Practicum: Video Production for Journalism 4
- COMM 243D Communication Practicum: Public Relations 4
- COMM 382 Intercollegiate Forensics 4
- COMM 399A Community Service Project 4
- COMM 399B Community Service Project 4
- COMM 444A Advanced Communication Practicum: Television 4
- COMM 444B Advanced Communication Practicum: Research 4
- COMM 444C Advanced Communication Practicum: Research 4
- COMM 444D Advanced Communication Practicum: Mentoring 4
- COMM 591B-E Internship in Communication 1

Electives (20)
Twenty units in addition to those chosen in the concentration, of which 12 must be upper-division, selected in consultation with an advisor and, in the case of non-departmental electives, the approval of the chair. COMM 120 and COMM 180 may not be applied toward the major.

Concentration (28)
See concentration.

A minimum of 28 units from one of the following concentrations below to be chosen in consultation with an advisor.

Total Units 77

Note: Students transferring from a California community college who received credit for an intercultural communication course may substitute COMM 302, COMM 401, COMM 471, or COMM 580 for COMM 304 with consent of Department Chair.

Human and Organizational Communication Concentration

Core (8)
Eight units chosen from:
- COMM 307 Rhetorical Theory 4
- COMM 403 Interpersonal Relations 4
- COMM 421 Organizational Communication 4

Electives (20)
Note: COMM 307, COMM 403, or COMM 421 may only be taken as electives if they have not been taken to satisfy this concentration’s core eight unit requirement.
Twenty units chosen from:
- COMM 204 Introduction to Critical Communication Studies 4
- COMM 221 Small Group Communication 4
- COMM 225 Fundamentals of Interpersonal Communication 4
- COMM 302 Communication, Language and Culture 4
- COMM 305 Critical Approaches to Communication 4
- COMM 307 Rhetorical Theory 4
- COMM 308 Argumentation 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 364 Topics in Human and Organizational Communication 4
- COMM 402 Ethnography of 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 471 International Communication 4
- COMM 502 Communication Law and Policy 4
- COMM 511 Feminist Contributions to Communication Theories 4
- COMM 522 Mediation Theory and Practice 4
- COMM 543 Environmental Communication 4
- COMM 560 Health Communication 4
- COMM 564 Advanced Topics in Human and Organizational Communication 4
- COMM 580 Culture and Ethnicity in Language 4
- COMM 581 Contemporary Theories of Rhetoric 4
- COMM 593A-D Communication Approaches to Area Studies 4
Media Studies Concentration

Core (12)
COMM 240 Writing for Media 4
COMM 320 Media History and Institutions 4
COMM 321 Media and Culture 4

Electives (16)
Sixteen units chosen from:
COMM 245 Introduction to TV and Video Production
COMM 309 Digital Media and Communication
COMM 311 Business and Professional Communication
COMM 335 Introduction to Digital Video Editing
COMM 341 Public Relations Theory and Principles
COMM 342 Publication Design and Makeup
COMM 343 Nonfiction Reporting and Writing
COMM 344 Public Relations Communication
COMM 345 Advanced TV and Video Production
COMM 346 TV and Video Field Production
COMM 347 Fundamentals of Screenwriting
COMM 348 Television News Writing and Reporting
COMM 349 Online Reporting and Writing
COMM 350 Online Journalism Production
COMM 352 Entertainment Media Management
COMM 365 Topics in Media Studies
COMM 378 Contemporary Cinema and Society
COMM 380 Visual Communication
COMM 381 The Development of Motion Pictures
COMM 387 Digital Audio/Radio Production
COMM 401 Gender, Race and Media
COMM 405 Media Effects
COMM 409 Latina/os, Media and Culture
COMM 410 Asian Media and Culture
COMM 415 Advertising as Social Communication
COMM 424 Film Analysis
COMM 425 Film and New Media
COMM 442 Public Relations Campaigns
COMM 448 Documentary Production
COMM 449 Fiction Production
COMM 450 Media Audiences
COMM 471 International Communication
COMM 481 History and Development of Documentary
COMM 502 Communication Law and Policy
COMM 506 Media Sex and Violence
COMM 550 Muslim Women in Media and Society
COMM 565 Advanced Topics in Media Studies
COMM 595B- Independent Study (for a maximum of 5 units)

Total Units 28

Public Relations Concentration

Core Requirements (20)
COMM 240 Writing for Media 4
COMM 341 Public Relations Theory and Principles 4
COMM 344 Public Relations Communication 4
COMM 442 Public Relations Campaigns 4
COMM 542 Issue Management and Crisis Communication 4

Electives (8)
Eight units chosen from:
COMM 243D Communication Practicum: Public Relations
COMM 309 Digital Media and Communication
COMM 311 Business and Professional Communication
COMM 312 Persuasion
COMM 342 Publication Design and Makeup
COMM 367 Topics in Public Relations
COMM 380 Visual Communication
COMM 415 Advertising as Social Communication
COMM 421 Organizational Communication
COMM 450 Media Audiences
COMM 502 Communication Law and Policy
COMM 520 Integrated Marketing Communication
COMM 567 Advanced Topics in Public Relations
COMM 591B- Internship in Communication (for a maximum of 5 units)
PA 307 Public Relations in the Public Sector

Total Units 28

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.

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
      i a curriculum vitae or resume and
      ii 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 coursework;
   b. In addition, applicants for the Integrated Marketing and Communication Track must:
      Include among their 24 quarter units of communication coursework the following:

      | Course   | Title                                      | Units |
      |----------|--------------------------------------------|-------|
      | COMM 306 | Communication Theory                       | 4     |
      | COMM 341 | Public Relations Theory and Principles     | 4     |
      | MKTG 305 | Marketing Principles                      | 4     |
      | MKTG 410 | Consumer Behavior                         | 4     |

   Complete the following undergraduate marketing courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 410</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>

   Complete ONE of the following research methods courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 400</td>
<td>Communication Research Methodology</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 416</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
</tbody>
</table>

   **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-":

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 600</td>
<td>Introduction to Graduate Study</td>
<td>4</td>
</tr>
<tr>
<td>COMM 605</td>
<td>Introduction to Graduate Studies in Integrated Marketing Communication</td>
<td>4</td>
</tr>
</tbody>
</table>

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:
   a. approve the student’s program of study;
   b. compose and evaluate the student’s comprehensive examination (if applicable); and
   c. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 600</td>
<td>Introduction to Graduate Study</td>
<td>4</td>
</tr>
<tr>
<td>COMM 601</td>
<td>Intercultural Communication Theories</td>
<td>4</td>
</tr>
<tr>
<td>COMM 602</td>
<td>Quantitative Research Methods in Communication Studies</td>
<td>4</td>
</tr>
<tr>
<td>COMM 603</td>
<td>Qualitative Research Methods in Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 685</td>
<td>Thesis or Project Proposal/Comprehensive Examination Preparation</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives:

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 502</td>
<td>Communication Law and Policy</td>
<td></td>
</tr>
<tr>
<td>COMM 506</td>
<td>Media Sex and Violence</td>
<td></td>
</tr>
<tr>
<td>COMM 511</td>
<td>Feminist Contributions to Communication Theories</td>
<td></td>
</tr>
<tr>
<td>COMM 520</td>
<td>Integrated Marketing Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 522</td>
<td>Mediation Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>COMM 542</td>
<td>Issue Management and Crisis Communication</td>
<td></td>
</tr>
</tbody>
</table>
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 specified guidelines, be approved by the advisory committee, and will be presented publicly during the student’s last quarter in residence. The completed project must be approved by the advisory committee and the Dean of Graduate Studies. Students choosing this option must register for five units of COMM 686.

Integrated Marketing Communication Track (50 units)

Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 306</td>
<td>Communication Theory</td>
<td>4</td>
</tr>
<tr>
<td>COMM 341</td>
<td>Public Relations Theory and Principles</td>
<td>4</td>
</tr>
<tr>
<td>COMM 400</td>
<td>Communication Research Methodology</td>
<td>4</td>
</tr>
<tr>
<td>or MKTG 416</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 410</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 20

Degree Requirements

Note: Students must receive a grade of "B-" or higher in all required courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 601</td>
<td>Intercultural Communication Theories</td>
<td>4</td>
</tr>
<tr>
<td>COMM 605</td>
<td>Introduction to Graduate Studies in Integrated Marketing Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 691</td>
<td>Seminar in Public Relations</td>
<td>4</td>
</tr>
<tr>
<td>COMM 602</td>
<td>Quantitative Research Methods in Communication Studies</td>
<td>4</td>
</tr>
<tr>
<td>or COMM 603</td>
<td>Qualitative Research Methods in Communication</td>
<td></td>
</tr>
<tr>
<td>MKTG 605</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 610</td>
<td>Consumer and Organizational Buying Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 620</td>
<td>Advertising Management</td>
<td>4</td>
</tr>
<tr>
<td>COMM 685</td>
<td>Thesis or Project Proposal/Comprehensive Examination Preparation</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives: 15-20

No more than eight elective units can be applied from courses taught outside of Communication Studies.
### Minor in Asian Studies

**Requirements (32 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.

**Requirements for a minor in Asian Studies**

**Core Requirements (20)**

Eight units chosen from:
- ANTH 362: Asian Cultures and Societies (8)
- FIN 355: Business and Asian Culture
- HUM 328: Asian Cultural Traditions

Four units of foreign language study chosen from:
- CHIN 103: College Chinese III (4)
- JAPN 103: College Japanese III
- KOR 103: College Korean III

**International Experience**

Four units from any combination of:
- ASIA 575D: Internship in Asian Studies
- ASIA 595D: Independent Study in Asian Studies
- HUM 578D: International Experience: Asian Studies

**Electives (12)**

At least four units from each of groups A, B, and C below (may not receive credit as an elective if taken as a core requirement)

<table>
<thead>
<tr>
<th>Group A: Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 330: Cross-Cultural Child-Rearing Practices (4)</td>
</tr>
<tr>
<td>ANTH 333: Sex and Gender in Cross-Cultural Perspective (4)</td>
</tr>
<tr>
<td>ANTH 362: Asian Cultures and Societies (4)</td>
</tr>
<tr>
<td>ANTH 340: Anthropology of Health, Illness and Healing (4)</td>
</tr>
<tr>
<td>ANTH 365: Asian American Cultures (4)</td>
</tr>
<tr>
<td>ANTH 366: Filipino Cultural Expressions (2)</td>
</tr>
<tr>
<td>HIST 426: Ancient and Early Imperial China (4)</td>
</tr>
<tr>
<td>HIST 428: Medieval China (4)</td>
</tr>
<tr>
<td>HIST 431: Modern China II, 1911-1949 (4)</td>
</tr>
<tr>
<td>HIST 432: Modern China III, 1949-Present (4)</td>
</tr>
<tr>
<td>HIST 435: World War II in the Pacific (4)</td>
</tr>
<tr>
<td>HIST 440: Modern Japanese History (4)</td>
</tr>
<tr>
<td>SOC 425: Asian Americans: Origin and Ethnicity (4)</td>
</tr>
</tbody>
</table>

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

### Culminating Experience:

Students will choose one of the following culminating experiences to complete their program with the advice of their advisory committee and the graduate coordinator. See Culminating Experience in the Communication Studies Track for an explanation of these options:

- COMM 686: Graduate Project
- COMM 699: Thesis
- COMM 999: Comprehensive Examination

**Total Units**: 32

---

**Graduate Assistantships**

A limited number of graduate assistantships are available, on a competitive basis, for students who wish to pursue the degree full-time. Interested applicants should contact the graduate coordinator in the Department of Communication Studies for further information.
ECON 430  International Economics
PSYC 345  Cross-Cultural Psychology
SSCI 300  Nonwestern World

Group B: Arts, Languages, Literature, and Education

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
ENG 319  Studies in Literary Diversity
ENG 321  Studies in Language and Linguistics
ENG 535  Images of Culture Through Childrens Literature
MUS 350  Music of World Cultures
PHIL 472  Advanced Issues in Philosophy of Religion
TA 464  Theatre in the Post-Colonial World
TA 465  Ethnic Films and Film Makers

Group C: Administration, Communication, Health and Nutrition, Environment

ADMN 590D  Seminar in Administration 4
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
MGMT 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
COMM 304  Intercultural Communication
COMM 471  International Communication
COMM 580  Culture and Ethnicity in Language
FIN 433  International Business Finance
HSCI 344  International Perspectives on Nutrition

HSCI 359  Global Health
HSCI 385  Food and Culture: Traditions and Trends
MGMT 405  Managing Across Borders
MKTG 470  International Marketing Management

Minor in Communication

Requirements (28 units)

Requirements for a minor in Communication

Lower-division requirement (4)
COMM 200  Introduction to Communication Studies 4

Upper-division requirements (8)
COMM 304  Intercultural Communication 4
COMM 491  Ethical Aspects of Communication 4

Electives (16)
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.

Total Units 28

Note: Students transferring from a California community college who received credit for an intercultural communication course may substitute COMM 302, COMM 401, COMM 471, or COMM 580 for COMM 304

Minor in Film Studies

Requirements (28-32 units)

Requirements for a minor in Film Studies

Lower-division requirements (4-5)
Four or five units chosen from: 4-5
ART 290  Beginning Analog Photography
COMM 245  Introduction to TV and Video Production
ENG 160  World Drama
HUM 180  The Art of Film
TA 160  World Drama

Upper-division requirements (24-27)
Eight units chosen from: 8
COMM 380  Visual Communication
COMM 381  The Development of Motion Pictures
ENG 315  Studies in a Literary Genre (when the topic is Film and Literature)

Four units chosen from: 4
COMM 378  Contemporary Cinema and Society
COMM 424  Film Analysis
COMM 425  Film and New Media

Twelve to 15 units chosen from either or both of these two categories: 12-15
Film and New Media Theory and Criticism:
COMM 320  Media History and Institutions
COMM 321  Media and Culture
COMM 381  The Development of Motion Pictures
COMM 410  Asian Media and Culture
Minor in Intercultural Communication

Requirements (28 units)

Requirements for a minor in Intercultural Communication

Upper-division requirements (16)

COMM 302 Communication, Language and Culture 4
COMM 304 Intercultural Communication 4
COMM 422 Communication and Conflict 4
COMM 471 International Communication 4

Electives (12)

Twelve units chosen from:

COMM 401 Gender, Race and Media
COMM 402 Ethnography of Communication
COMM 522 Mediation Theory and Practice
COMM 580 Culture and Ethnicity in Language
COMM 581 Contemporary Theories of Rhetoric
COMM593A-D Communication Approaches to Area Studies:
COMM 595B-E Independent Study (for a maximum of 5 units)

Total Units 28

Minor in Public Relations

Requirements (28 units)

Requirements for a minor in Public Relations

Lower-division requirements (4)

COMM 240 Writing for Media 4

Upper-division requirements (16)

COMM 341 Public Relations Theory and Principles 4
COMM 344 Public Relations Communication 4
COMM 442 Public Relations Campaigns 4
COMM 542 Issue Management and Crisis Communication 4

Electives (8)

Eight units chosen from:

COMM 243D Communication Practicum: Public Relations
COMM 311 Business and Professional Communication
COMM 312 Persuasion
COMM 421 Organizational Communication
COMM 591B-E Internship in Communication
PA 307 Public Relations in the Public Sector

Total Units 28

Minor in Script Writing

Requirements (28 units)

Requirements for a minor in Script Writing

Lower-division requirement (4)

HUM 180 The Art of Film 4
or TA 260 Introduction to Theatre

Upper-division requirements (24)

COMM 347 Fundamentals of Screenwriting 4
ENG 302B Analysis and Writing of Drama 4
or TA 302B Analysis and Writing of Drama
TA 347 Playwriting 4

Four units chosen from:

ENG 316 Introduction to Creative Writing: Specialized Genres 4
ENG 317 Introduction to Creative Writing: Poetry
ENG 318 Introduction to Creative Writing: Fiction
ENG 513 Advanced Creative Writing in Specialized Genres 4

Four units chosen from:

COMM 343 Nonfiction Reporting and Writing
COMM 380 Visual Communication
COMM 381 The Development of Motion Pictures
ENG 315 Studies in a Literary Genre
ENG 463 Advanced Studies in Literary Topics
TA 465 Ethnic Films and Film Makers

Note: Students are able to receive credit for summer arts courses pertaining to the minor.

Total Units 28
Certificate in Asian Studies

Requirements (20 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 362</td>
<td>Asian Cultures and Societies</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
</tr>
<tr>
<td>HUM 328</td>
<td>Asian Cultural Traditions</td>
</tr>
</tbody>
</table>

Four units of foreign language study chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 103</td>
<td>College Chinese III</td>
</tr>
<tr>
<td>JAPN 103</td>
<td>College Japanese III</td>
</tr>
<tr>
<td>KOR 103</td>
<td>College Korean III</td>
</tr>
</tbody>
</table>

Electives (8)

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 590D</td>
<td>Seminar in Administration</td>
</tr>
<tr>
<td>ANTH 330</td>
<td>Cross-Cultural Child-Rearing Practices</td>
</tr>
<tr>
<td>ANTH 365</td>
<td>Asian American Cultures</td>
</tr>
<tr>
<td>ANTH 366</td>
<td>Filipino Cultural Expressions</td>
</tr>
<tr>
<td>ART 310</td>
<td>Art</td>
</tr>
<tr>
<td>ASIA 392</td>
<td>Topics in Asian Studies</td>
</tr>
<tr>
<td>ASIA 575D</td>
<td>Internship in Asian Studies</td>
</tr>
<tr>
<td>ASIA 595D</td>
<td>Independent Study in Asian Studies</td>
</tr>
<tr>
<td>COMM 410</td>
<td>Asian Media and Culture</td>
</tr>
<tr>
<td>ENG 319</td>
<td>Studies in Literary Diversity</td>
</tr>
<tr>
<td>ENG 321</td>
<td>Studies in Language and Linguistics</td>
</tr>
<tr>
<td>HIST 426</td>
<td>Ancient and Early Imperial China</td>
</tr>
<tr>
<td>HIST 428</td>
<td>Medieval China</td>
</tr>
<tr>
<td>HIST 431</td>
<td>Modern China II, 1911-1949</td>
</tr>
<tr>
<td>HIST 432</td>
<td>Modern China III, 1949-Present</td>
</tr>
<tr>
<td>HIST 435</td>
<td>World War II in the Pacific</td>
</tr>
<tr>
<td>HIST 440</td>
<td>Modern Japanese History</td>
</tr>
</tbody>
</table>

HSCI 385 Food and Culture: Traditions and Trends
HUM 380 Comparative Studies in the Arts: East and West
HUM 425 Integrative Seminar in Asian Studies
HUM 578D International Experience: Asian Studies
JAPN 290 Japanese Literature in Translation
KINE 114F Physical Fitness and Conditioning Activities: Yoga
KINE 120A Somatic and Martial Arts Activities: Aikido
KINE 120B Somatic and Martial Arts Activities: Tai Chi
KINE 120D Somatic and Martial Arts Activities: Judo
KINE 120E Somatic and Martial Arts Activities: Karate
KINE 261M Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts
KINE 261O Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga
PHIL 193 Introduction to Eastern Philosophy
PSCI 352D Minority Politics: Asian American Politics
SOC 425 Asian Americans: Origin and Ethnicity

Total Units 20

Certification in Communication Skills

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

Required course (4)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 491</td>
<td>Ethical Aspects of Communication</td>
</tr>
</tbody>
</table>

Electives (28)

Public speaking. Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 120</td>
<td>Oral Communication</td>
</tr>
<tr>
<td>COMM 180</td>
<td>Critical Thinking Through Argumentation</td>
</tr>
<tr>
<td>COMM 311</td>
<td>Business and Professional Communication</td>
</tr>
</tbody>
</table>

Intercultural communication

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 304</td>
<td>Intercultural Communication</td>
</tr>
<tr>
<td>or COMM 411</td>
<td>Gender and Communication</td>
</tr>
</tbody>
</table>

Interpersonal communication. Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 221</td>
<td>Small Group Communication</td>
</tr>
<tr>
<td>COMM 225</td>
<td>Fundamentals of Interpersonal Communication</td>
</tr>
</tbody>
</table>

20
Police, fire and rescue services. Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 240</td>
<td>Writing for Media</td>
<td>4</td>
</tr>
<tr>
<td>COMM 342</td>
<td>Publication Design and Makeup</td>
<td>4</td>
</tr>
<tr>
<td>COMM 343</td>
<td>Nonfiction Reporting and Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Media. Two courses for a minimum of four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 290</td>
<td>Beginning Analog Photography</td>
<td>4</td>
</tr>
<tr>
<td>COMM 381</td>
<td>The Development of Motion Pictures</td>
<td>4</td>
</tr>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 519</td>
<td>Audio Production</td>
<td>4</td>
</tr>
<tr>
<td>TA 253</td>
<td>Voice for the Stage</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 32

Certificate in Conflict Management

Requirements (24 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

This certificate can also be used by students in the Master of Business Administration and Master in Public Administration.

Admission to the Program

Postbaccalaureate standing.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 522</td>
<td>Mediation Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>COMM 670</td>
<td>Seminar in Conflict and Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 645</td>
<td>Negotiation and Bargaining</td>
<td>4</td>
</tr>
</tbody>
</table>

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 672</td>
<td>Intercultural Peacemaking</td>
<td>4</td>
</tr>
<tr>
<td>COMM 673</td>
<td>Advanced Mediation Skills</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 642</td>
<td>Communication and Interpersonal Processes</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 644</td>
<td>Industrial Relations</td>
<td>4</td>
</tr>
</tbody>
</table>
Department of English

Department of English
University Hall, Room 334
(909) 537-5824 Department of English (http://english.csusb.edu)

Bachelor of Arts
- English
- Literature Track
- Creative Writing Track
- Linguistics Track

Teacher Preparation Program
English

Minor
- English
- Film Studies
- Script Writing

Master of Arts
- English Composition
- English Literature
- Applied Linguistics and Teaching English as a Second Language

Master of Fine Arts
- Creative Writing
- Fiction
- Poetry

Certificate Programs
- Teaching English as a Second Language
- Writing: Creative Writing
- Writing: Professional Writing

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 (p. 14).

Departmental Honors

Students majoring in English are eligible to receive honors in English at graduation if they have:

1. Completed at least one-half of the course work required in the major at this university;
2. Earned a grade point average of at least 3.5 in all courses attempted in the major at this university;
3. Earned an overall undergraduate grade point average of at least 3.0;

Current Faculty

Jennifer L. Andersen, Professor
B.A. 1988, University of California, Los Angeles
M.A. 1991, Ph.D. 1996, Yale University

Mary Boland, Professor
B.A. 1984, State University of New York, Albany
M.A. 1996, Ph.D. 2002, University of Rochester

James Brown, Professor
B.A. 1980, San Francisco State University
M.F.A. 1986, University of California, Irvine

David Carlson, Professor
B.A. 1992, Colgate University
M.A. 1994, Ph.D. 2000, Indiana University

Rong Chen, Professor, Interim Associate Vice President Academic and International Programs
B.A. 1979, Xian Foreign Language Institute
M.A. 1986, Ph.D. 1990, Ball State University, Muncie, Indiana

J. Milton Clark, Associate Professor, Associate Vice President of Undergraduate Studies
B.A. 1972, California State College, San Bernardino
M.A. 1977, Ph.D. 1988, University of California, Riverside

Kimberly A. Costino, Professor, Director of the Teaching Resource Center
B.A. 1993, Ursinus College
M.A. 1996, Villanova University
Ph.D. 2002, University of Massachusetts

Cynthia Cotter, Lecturer
B.A. 1983, M.A. 1991, California State University, San Bernardino

Juan Delgado, Professor
B.A. 1983, California State University, San Bernardino
M.F.A. 1985, University of California, Irvine

Margaret S. Doane, Professor
B.A. 1970, University of Redlands
M.A. 1971, Northern Arizona University
Ph.D. 1976, University of Oregon

Parastou Feiz, Associate Professor
B.A. 1998, Shahid Beheshti University, Iran

Ellen Gil-Gomez, Professor
B.A. 1990, University of California, Santa Barbara
M.A. 1991, California State University, Long Beach
Ph.D. 1995, Washington State University

Brenda Glascott, Associate Professor
B.A. 1996, Binghamton University
M.A. 2001, Ph.D. 2007, University of Pittsburgh

Holly Henry, Professor
B.A. 1987, M.A. 1992, Bucknell University
Ph.D. 1999, Pennsylvania State University

Sung-Heh Hyon, Professor, Chair
B.A. 1989, University of California, San Diego
Ph.D. 1995, University of Michigan

Felicia Lemus, Assistant Professor
B.A., 1997, University of California, Irvine
M.F.A., 2000, California Institute of the Arts

Chad Luck, Associate Professor
B.A. 1994, University of Washington
M.A. 2001, Indiana University
Ph.D. 2008, Indiana University

Jessica Luck, Associate Professor
B.A. 1996, M.S. 1997, University of Tennessee
M.A. 1999, Wake Forest University
Ph.D. 2006, Indiana University

David Marshall, Associate Professor, Assistant Dean
B.A. 1993, College of the Holy Cross
M.A. 1998, University of York
Ph.D. 2007, Indiana University

Julie Paegle, Professor

Yumi Pak, Assistant Professor
B.A. 2004, M.A. 2009, University of California, Santa Cruz
Ph.D. 2012, University of California, San Diego

Renee Pigeon, Professor
B.A. 1978, University of California, Santa Barbara
M.A. 1984, Ph.D. 1988, University of California, Los Angeles

Luz Ramirez, Professor
B.A. 1991, Tulane University
M.A. 1994, Ph.D. 1998, University of Texas, Austin

Jacqueline R. Rhodes, Professor
B.A. 1988, University of Montana
M.A. 1992, University of Idaho
Ph.D. 1999, University of Southern Mississippi

Karen Rowan, Assistant Professor
B.A. 1996, Guilford College
Ph.D. 2005, University of Albany

Treadwell Ruml, II, Professor
A.B. 1974, Harvard College
J.D. 1977, Harvard Law School

M.A. 1982, Ph.D. 1989, University of Virginia

DeShea R. Rushing, Lecturer
B.A. 1981, California State University, Long Beach
M.A. 1983, California State University, San Bernardino

Wendy Smith, Professor
B.A. 1973, M.A. 1978, San Francisco State University
Ph.D. 1990, University of California, Los Angeles

J. Chad Sweeney, Assistant Professor
B.A. 1993, University of Oklahoma Norman Campus
M.F.A. 2006, California State University, San Francisco
Ph.D. 2011, Western Michigan University

Caroline H. Vickers, Professor
B.A. 1994, University of Georgia
M.S. 1997, Georgetown University
Ph.D. 2004, University of Arizona

Salaam Y. Yousif, Professor, Associate Dean
B.A. 1969, University of Baghdad
M.A. 1980, Oklahoma State University
Ph.D. 1988, University of Iowa

Emeriti

Bertram Fairchild, Jr., Professor
Bruce Golden, Professor
Charles V. Hartung, Associate Professor
Carol P. Haviland, Professor
Robert A. Lee, Professor
Loralee MacPike, Professor
Clark Mayo, Professor
Susan Meisenhelder, Professor
Theron Pace, Professor
E. Phillip Page, Professor
Elinore H. Partridge, Associate Professor
Peter R. Schroeder, Professor
Edward M. White, Professor

Undergraduate Degrees

Bachelor of Arts

- English (p. 232) with tracks in:
  - Literature
  - Creative Writing
  - Linguistics
Graduate Degrees

Master of Arts

- English Composition (p. 233) with concentrations in:
  - English Composition
  - English Literature
  - Applied Linguistics and Teaching English as a Second Language

Master of Fine Arts

- Creative Writing (p. 236) with concentrations in:
  - Fiction
  - Poetry

Minors

- English (p. 238)
- Film Studies (p. 214) (The Department of English participates in the interdisciplinary minor in Film Studies.)
- Script Writing (p. 215)

Certificate Programs

- Teaching English as a Second Language (p. 239)
- Teaching Writing (p. 239)
- Writing: Creative Writing (p. 240)
- Writing: Professional Writing (p. 240)

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 510  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:

   ENG 110  World Literature I  4
   or ENG 111  World Literature II  4
   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 (p. 511) teaching credential program, see contact the Credentials Office.

Courses

ENG 100. Academic Speaking for Multilingual Students. 4 Units.
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.

ENG 102A. Stretch Composition I. 4 Units.
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 102A-ENG 103A-ENG 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-ENG 103A-ENG 104A stretch sequence may count toward graduation. Units are not applicable toward a degree.

ENG 102B. Stretch Composition I for Multilingual Students. 4 Units.
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-ENG 103B-ENG 104B. Students identify themselves for placement in this course through Directed Self-Placement and 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-ENG 103B-ENG 104B stretch sequence may count toward graduation. Units are not applicable toward a degree.

ENG 103A. Stretch Composition II. 4 Units.
Prerequisites: ENG 102A. Graded Credit/No Credit. No more than eight units of the ENG 102A-ENG 103A-ENG 104A stretch sequence may count toward graduation

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-ENG 103A-ENG 104A.
ENG 103B. Stretch Composition II for Multilingual Students. 4 Units.
Prerequisites: ENG 102B. Graded Credit/No Credit. No more than eight units of the ENG 102B-ENG 103B-ENG 104B stretch sequence may count toward graduation. Units are not applicable toward a degree. 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-ENG 103B-ENG 104B.

ENG 104A. Stretch Composition III. 4 Units.
Prerequisites: ENG 103A. Graded A,B,C/No Credit. No more than eight units of the ENG 102A-ENG 103A-ENG 104A stretch sequence may count toward graduation. A grade of C or better fulfills GE A.1. Students may not receive credit for more than one of the following: ENG 104A, ENG 104B, ENG 106 or ENG 107. 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 102A-ENG 103A-ENG 104A.

ENG 104B. Stretch Composition III for Multilingual Students. 4 Units.
Prerequisites: ENG 103B. Graded A,B,C/No Credit. A grade of C or better fulfills GE A.1. No more than eight units of the ENG 102B-ENG 103B-ENG 104B stretch sequence may count toward graduation. 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-ENG 103B-ENG 104B.

ENG 105A. Accelerated Stretch Composition II. 4 Units.
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 an NC in 103A or 103B. Students will remain with the same cohort of classmates in the same time slot across ENG 105A -ENG 106A. Graded Credit/No Credit.

ENG 105B. Accelerated Stretch Composition I for Multilingual Students. 4 Units.
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 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 105A instead of ENG 105B. Students will remain with the same cohort of classmates in the same time slot across ENG 105A -ENG 106A. Graded Credit/No Credit.

ENG 106A. Accelerated Stretch Composition II. 4 Units.
Prerequisites: ENG 105A. Graded A,B,C/No Credit. A grade of C or better fulfills GE A.1. 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 105A - ENG 106A.

ENG 106B. Accelerated Stretch Composition II for Multilingual Students. 4 Units.
Prerequisites: ENG 105B. Graded A,B,C/No Credit. A grade of C or better fulfills GE A.1. 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 105A - ENG 106A.

ENG 107. Advanced First-Year Composition. 4 Units.
(GE=A1) 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. Students identifying themselves for placement in this course through Directed Self-Placement or through receiving an NC in ENG 104 or ENG 106. Formerly ENG 101. Graded A,B,C/No Credit. A grade of C or better fulfills GE A.1.

ENG 110. World Literature I. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C,2) Readings in world literature to the sixteenth century (in English translation).

ENG 111. World Literature II. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C,2) Readings in world literature from the sixteenth century to the contemporary period (in English translation).

ENG 140. Major American Authors. 4 Units.
Readings in major figures in American literature from the Puritans to the present.

ENG 160. World Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C2) Selected readings of dramatic literature (in translation) from the 5th century B.C. to the present. (Offered as ENG 160 and TA 160. Students may not receive credit for both.).

ENG 170. Studies in Literature. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C,2) Analysis of the forms and content of literature. Emphasis is on the methodology of reading prose fiction, drama and poetry.
ENG 170H. Studies in Literature. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent
(GE=C.2)
Analysis of the forms and content of literature. Emphasis is on the methodology of reading prose fiction, drama and poetry.

ENG 210. English Literature I. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent
Readings in English literature from the Middle Ages through the Renaissance. Formerly ENG 230.

ENG 211. English Literature II. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent
Readings in English literature from the Restoration through the eighteenth century. Formerly ENG 231.

ENG 212. English Literature III. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement

ENG 213. English Literature IV. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Readings in English literature from the twentieth century to the present. Formerly ENG 232.

ENG 240. Writing in the Public Sphere. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.

ENG 300. English Workshop. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.

ENG 300P. ENGLISH. 99 Units.

ENG 301A. Analysis of Poetry. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Literary analysis of selected lyric poems with special emphasis on how to write about literature. Formerly ENG 301.

ENG 301B. Analysis and Writing of Poetry. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.

ENG 302A. Analysis of Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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).

ENG 302B. Analysis and Writing of Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as ENG 302B. Students may not receive credit for both.).

ENG 303A. Analysis of Prose Fiction. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Literary analysis of selected narrative prose with special emphasis on how to write about literature. Formerly ENG 303.

ENG 303B. Analysis and Writing of Prose Fiction. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.

ENG 304A. Analysis of Nonfiction Prose. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Literary analysis of selected nonfiction prose with special emphasis on how to write about literature. Formerly ENG 304.

ENG 304B. Analysis and Writing of Nonfiction Prose. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.
ENG 306. Expository Writing for English. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit (GE=F1)
Advanced expository writing including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit.
Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly ENG 495. Graded A, B, C/no credit.

ENG 309. Literature in the Classroom. 4 Units.
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.

ENG 311. The English Language. 4 Units.
Introduction to the structure and development of the English language, including phonetics, phonology, morphology, syntax, pragmatics, sociolinguistics, psycholinguistics, and language acquisition.

ENG 312. Theories of Language Acquisition and Learning. 4 Units.
Prerequisites: ENG 311
Examination of linguistic, psychological and social aspects of language acquisition and learning. Explores connections between first and second language acquisition theories and language teaching.

ENG 314. American Indian Literature. 4 Units.
(GE=G2)
A consideration of the oral traditions and significant literary works of a variety of American Indian cultures in their changing cultural contexts.

ENG 315. Studies in a Literary Genre. 4 Units.
Prerequisites: ENG 301A or ENG 301B; and one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B or consent of instructor
Intensive study of a selected genre. May be repeated for credit as topics change.

ENG 316. Introduction to Creative Writing: Specialized Genres. 4 Units.
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.

ENG 317. Introduction to Creative Writing: Poetry. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or consent of instructor
Workshop in writing poetry, discussion of student writing and exemplary works by established poets.

ENG 318. Introduction to Creative Writing: Fiction. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or consent of instructor
Workshop in writing fiction, discussion of student writing and exemplary works by established authors.

ENG 319. Studies in Literary Diversity. 4 Units.
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.

ENG 320. Childrens Literature. 4 Units.
Prerequisites: one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B
History and development of childrens literature; emphasis on developing skills in analyzing, evaluating and selecting books for children from preschool through junior high school, especially picture books.

ENG 321. Studies in Language and Linguistics. 4 Units.
Intensive study in selected topics in linguistics or language. May be repeated for credit as topics change.

ENG 322. Chicano Literature. 4 Units.
Formerly ENG 332.
Selected literature by and about Mexican Americans. Emphasis on the uniqueness of the voices that collectively define Chicano literature and on that literatures formal and thematic characteristics.

ENG 324. Studies in Literary Topics. 4 Units.
Prerequisites: ENG 301A or ENG 301B; and one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B
Study of a selected topic in literature. May be repeated for credit as topics change.

ENG 325. American Literature I. 4 Units.
Readings in American literature from the Colonial period through the Civil War. Formerly ENG 330 and 331.

ENG 326. American Literature II. 4 Units.
Readings in American literature from the Civil War to the present. Formerly ENG 332.

ENG 327. Literature for Adolescents and Young Adults. 4 Units.
Prerequisites: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B
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.

ENG 329. Issues in Literacy and Writing Studies. 4 Units.
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.
ENG 330. Tutoring Writing: Theory and Practice. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent or consent of instructor.
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.

ENG 333. Myth and Epic. 4 Units.
Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B.
Myths and epics of folklore and of classical literature, emphasizing relationships to later Western literature.

ENG 335. Studies in the Novel. 4 Units.
Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B.
Studies in the novel with emphasis on close reading of specific texts.

ENG 336. Women Writers. 4 Units.
Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues of women's lives. (Offered as ENG and GSS 336. Students may not receive credit for both.)
GSS 336 was formerly WSTD 336.

ENG 339. African American Literature. 4 Units.
Readings in African American literature from the oral tradition to the present, with emphasis on literary, historical and cultural contexts.

ENG 347. Playwriting. 4 Units.
Prerequisites: one course from ENG 302A, ENG 302B, TA 302A, TA 302B; or consent of instructor.
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. Students may not receive credit for both.)

ENG 385. Literary Theory and Criticism. 4 Units.
Survey of major issues in literary theory and criticism from Plato to the present.

ENG 399A. Community Service Project. 1 Unit.
Prerequisites: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken.
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.

ENG 399B. Community Service Project. 2 Units.
Prerequisites: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken.
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.

ENG 401. English Literature of the Middle Ages. 4 Units.
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.
Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory.

ENG 403. English Literature of the Renaissance. 4 Units.
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.
Poetry, prose and drama of the sixteenth century.

ENG 406. Seventeenth Century Literature. 4 Units.
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.

ENG 409. English Literature of the Restoration and Eighteenth Century. 4 Units.
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.
English prose and poetry from Bacon through Milton.

ENG 412. Romantice Prose and Poetry. 4 Units.
Prerequisites: ENG 301A or ENG 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.
English poetry and prose of the Restoration and eighteenth century.

ENG 415. Victorian Literature. 4 Units.
Prerequisites: ENG 301A or ENG 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.
Major English romantics such as Blake, Wordsworth, Keats, Coleridge, Shelley and Byron.

ENG 417. Intermediate Creative Writing: Poetry. 4 Units.
Prerequisites: ENG 317 or consent of instructor.
Intermediate-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets.

ENG 418. Intermediate Creative Writing: Fiction. 4 Units.
Prerequisites: ENG 318 or consent of instructor.
Intermediate-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers.

ENG 420. English Grammar I. 4 Units.
Prerequisites: ENG 311.
Study and analysis of grammatical structures of English.
ENG 422. History of the English Language. 4 Units.
Prerequisites: ENG 311
Development of the English language from the beginning to the present.

ENG 423. Studies in a Literary Theme. 4 Units.
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
Intensive study of a selected theme. May be repeated for credit as topics change.

ENG 440. Studies in a Literary Period or Movement. 4 Units.
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
Intensive study of literature within historical and/or cultural contexts. May be repeated for credit as topics change.

ENG 441. Studies in a Major Author or Authors. 4 Units.
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
Intensive study of a selected author or authors. May be repeated for credit as topics change.

ENG 442. Modern Poetry. 4 Units.
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
Studies in British, American and European poetry from the late nineteenth century to World War II.

ENG 443. Contemporary Poetry. 4 Units.
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
Studies in British and American poetry from World War II to the present.

ENG 447. Modern Fiction. 4 Units.
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
Fiction from 1900 through World War II. Formerly ENG 446.

ENG 448. Contemporary Fiction. 4 Units.
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
Fiction from World War II to the present. Formerly ENG 446.

ENG 463. Advanced Studies in Literary Topics. 4 Units.
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
Advanced study of a topic in literature. May be repeated for credit as topics change.

ENG 475. Shakespeare I. 4 Units.
Prerequisites: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B;
or consent of instructor
Comedies and history plays. (Also offered as ENG 476. Students may not receive credit for both.).

ENG 476. Shakespeare II. 4 Units.
Prerequisites: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B;
or consent of instructor
Tragedies and romances. (Also offered as ENG 476. Students may not receive credit for both.).

ENG 501. Media Performance Practicum. 4 Units.
Prerequisites: Consent of instructor
Practical application of writing, performance, and production skills. The practicum course is designed for students interested in writing scripts, performing, and producing for radio shows, online and other social media outlets. The course can be taken twice for credit as Eng 501 or TA 501 (cross-listed as ENG 501). Graded credit/No Credit.

ENG 507. Advanced Creative Writing: Poetry. 4 Units.
Prerequisites: ENG 417 or consent of instructor
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.

ENG 508. Advanced Creative Writing: Fiction. 4 Units.
Prerequisites: ENG 418 or consent of instructor
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.

ENG 510. English in the Secondary Classroom. 4 Units.
Prerequisites: ENG 317 or ENG 318 with consent of instructor
Classroom. 4 Units.
Prerequisites: Consent of instructor
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.
ENG 513. Advanced Creative Writing in Specialized Genres. 4 Units.
Prerequisites: ENG 417 or ENG 418 or consent of instructor
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 topics change.

ENG 515. Senior Seminar in Literature. 4 Units.
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.

ENG 516. Senior Project. 1 Unit.
Prerequisites: completion of 135 units, including 40 units of the English major
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.

ENG 517. Honors Project. 2 Units.
Prerequisites: 3.5 grade point average in the English major
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.

ENG 522. Independent Study in Writing. 4 Units.
Prerequisites: ENG 513 and departmental approval; students must be enrolled in the Creative Writing track and the project must be approved by an instructor
Projects in advanced writing: fiction, non-fiction, poetry or drama. A total of eight units may apply to the English major or toward graduation.

ENG 523. English Grammar II. 4 Units.
Prerequisites: ENG 311 and ENG 420
Advanced study and analysis of grammatical structures of English.

ENG 524. Sociolinguistics. 4 Units.
Prerequisites: ENG 311 and ENG 420
An examination of language within social and cultural contexts, including ethnic, social and regional dialect variations in the United States.

ENG 525. Seminar in Literary Theory and Criticism. 4 Units.
Advanced study in special topics in literary theory and criticism. May be repeated for credit as topics change.

ENG 526. English Phonetics and Phonology. 4 Units.
Prerequisites: ENG 311
Sounds and sound patterns of spoken English, with special attention to the pronunciation problems encountered by learners of English as a second language.

ENG 535. Images of Culture Through Children's Literature. 4 Units.
Prerequisites: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students
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.

ENG 543A. Literary Publication: Solicitation of Submissions. 4 Units.
Prerequisites: ENG 507 or ENG 508; or current enrollment in the M.F.A. in Creative Writing; or consent of instructor. Solicitation of submissions: selections of materials; gathering, ranking and editing of submissions to the campus literary journal 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. Two hours lecture and four hours laboratory. ENG 543A, ENG 543B, and ENG 543C may each be taken once for credit.

ENG 543B. Literary Publication: Production. 4 Units.
Prerequisites: ENG 507 or 508; or current enrollment in the M.F.A. in Creative Writing; or consent of instructor. Production, layout, design and editing of the literary journal 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. Two hours lecture and four hours laboratory. ENG 543A, ENG 543B, and ENG 543C may each be taken once for credit.

ENG 543C. Literary Publication: Publicaiton Process. 4 Units.
Prerequisites: ENG 507 or ENG 508; or current enrollment in the M.F.A. in Creative Writing; or consent of instructor. Publication process, organization of readings, and promotion of new issue of literary journal 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. Two hours lecture and four hours laboratory. ENG 543A, 543B, and 543C may each be taken once for credit.

ENG 565. Special Studies in Writing. 2 Units.
Prerequisites: consent of instructor
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.

ENG 566. Special Studies in Writing. 4 Units.
Prerequisites: consent of instructor
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.
ENG 575B. Internship in English. 2 Units.
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.
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.

ENG 575C. Internship in English. 3 Units.
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.
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.

ENG 575D. Internship in English. 4 Units.
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.
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.

ENG 575E. Internship in English. 5 Units.
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.
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.

ENG 595B. Independent Study in Literature, Composition, or Linguistics. 2 Units.
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.
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.

ENG 595C. Independent Study in Literature, Composition, or Linguistics. 3 Units.
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.
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.

ENG 595D. Independent Study in Literature, Composition, or Linguistics. 4 Units.
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.
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.

ENG 595E. Independent Study in Literature, Composition, or Linguistics. 5 Units.
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.
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.

ENG 595F. Independent Study in Literature, Composition, or Linguistics. 5 Units.
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.
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. (2-5 units.)

ENG 600. Critical Approaches to Literature. 4 Units.
Prerequisites: ENG 385 or consent of instructor.
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.

ENG 601. Seminar in Poetry. 4 Units.
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.

ENG 602. Seminar in Dramatic Literature for Stage and Film. 4 Units.
Prerequisites: ENG 600 or consent of instructor.
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.)
ENG 603. Seminar in Fiction. 4 Units.
Prerequisites: ENG 600 or consent of instructor
Advanced study in particular kinds of fiction, with special focus on generic
issues or problems. May be repeated for credit as topics change.

ENG 604. Seminar in Nonfiction Prose. 4
Units.
Prerequisites: ENG 600 or consent of instructor
Advanced study in particular kinds of nonfiction prose with special focus
on generic issues or problems. May be repeated for credit as topics
change.

ENG 605. Special Topics in Language
Studies. 4 Units.
Prerequisites: ENG 311 and 420
Seminar in particular aspects of language studies and their empirical
application. May be repeated for credit as topics change.

ENG 607. M.F.A. Workshop in Poetry. 4 Units.
Prerequisites: admission to the M.F.A. in Creative Writing, Poetry
Concentration
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.

ENG 608. M.F.A. Workshop in Fiction. 4 Units.
Prerequisites: admission to the M.F.A. in Creative Writing, Fiction
Concentration
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.

ENG 609. Perspectives on Research. 4 Units.
Critical study of research methods and resources in the fields of
composition, linguistics and literature. Formerly ENG 690.

ENG 611. The Western Rhetoric Tradition. 4
Units.
Examination of major texts and movements in the history of rhetoric.

ENG 612. Contemporary Composition and
Discourse Theory. 4 Units.
Examination of major texts and movements in contemporary composition
and discourse theory.

ENG 613. Seminar in Rhetoric and
Composition. 4 Units.
Prerequisites: ENG 612
Advanced study in a specific area of rhetoric and composition theory. May
be repeated for credit as topics change.

ENG 615. Discourse Analysis: Theories and
Applications. 4 Units.
Prerequisites: ENG 311 or consent of instructor
Study and application of various linguistic approaches to analyzing
spoken and written discourse.

ENG 616. Contrastive Rhetoric. 4 Units.
Prerequisites: ENG 311 or consent of instructor
Comparison and contrast of the rhetorical conventions of various genres
as they are written in a variety of languages and discourse communities.

ENG 617. Linguistics Pragmatics. 4 Units.
Prerequisites: ENG 311 or consent of instructor
Seminar in the study of how language is used in contexts in relation to the
speakers goals and intentions. Application of major theories in the field to
the analysis of actual language. Formerly a topic under ENG 605.

ENG 618. Stylistics. 4 Units.
Prerequisites: ENG 311 or consent of instructor
Examination of various linguistic and rhetorical devices that help writers of
literary text to convey their messages and to produce intended effects.

ENG 619. Second Language Acquisition. 4
Units.
Prerequisites: ENG 311 or consent of instructor
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.

ENG 621. Approaches to Imaginative Writing.
4 Units.
Prerequisites: ENG 612 or consent of instructor
Traditional and contemporary approaches to imaginative writing;
emphasis on means of encouraging different styles and modes of
expression.

ENG 622. Creative Writers on Writing. 4 Units.
Prerequisites: ENG 621 and either ENG 687 or ENG 688
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.

ENG 625. TESL Methods and Materials for
Speaking and Listening. 4 Units.
Prerequisites: ENG 311 and ENG 420; or consent of instructor
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.

ENG 626. TESL Methods and Materials for
Reading and Writing. 4 Units.
Prerequisites: ENG 311 and ENG 420; or consent of instructor
Seminar in theory, methodology, and techniques in the teaching of
reading comprehension, identifying contextual clues and audience
assumptions), and writing (including genre analysis and the
training of grammar through writing) to non-native speakers of English in an academic
context.

ENG 630. Writing Center Studies. 4 Units.
Prerequisites: ENG 612 or consent of instructor
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.
ENG 631. Approaches to Professional Writing. 4 Units.
Emphasis on writing and teaching the techniques of composing professional reports, abstracts, reviews, and of editing technical manuals and preparing articles for professional journals.

ENG 633. The Western Rhetorical Tradition I. 4 Units.
Examination of major texts and movements in the history of rhetoric and writing studies, from the Classical period to the 18th century.

ENG 634. The Western Rhetorical Tradition II. 4 Units.
Examination of major texts and movements in the history of rhetoric and writing studies, from the 19th century to the present.

ENG 635. Seminar in a Literary Topic. 4 Units.
Prerequisites: ENG 612 and ENG 650; one course from ENG 523, ENG 615, ENG 616, ENG 617; and approval of the graduate coordinator Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit.

ENG 636. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study in particular topics in writing. May be repeated for credit as topics change.

ENG 637. Internship in Literature. 4 Units.
Prerequisites: ENG 612 and ENG 650; one course from ENG 523, ENG 615, ENG 616, ENG 617; and approval of the graduate coordinator 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.

ENG 638. Practicum in ESL Teaching. 2 Units.
Prerequisites: ENG 619 and ENG 626; one course from ENG 523, ENG 615, ENG 616, ENG 617; and approval of the graduate coordinator Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit.

ENG 639. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 640. Creative Writing Internship. 4 Units.
Prerequisites: completion of at least 36 units of coursework required by the program, consent of instructor, and approval of the M.F.A. coordinators 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.

ENG 641. Internship in Composition. 2 Units.
Prerequisites: consent of instructor Study in particular topics in composition. 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.

ENG 642. Internship in Composition. 2 Units.
Prerequisites: ENG 612; two courses from ENG 530, ENG 621, ENG 626, ENG 657, ENG 658, ENG 660; and approval of the graduate coordinator A practical application of composition theory, research, and pedagogy. Supervised teaching in the composition classroom. May be repeated once for credit.

ENG 643. Internship in Literature. 2 Units.
Prerequisites: ENG 612 and ENG 650; one course from ENG 601, ENG 602, ENG 603, ENG 604, ENG 651; and approval of the graduate coordinator 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.

ENG 644. Internship in ESL Teaching. 2 Units.
Prerequisites: ENG 619 and ENG 626; one course from ENG 523, ENG 615, ENG 616, ENG 617; and approval of the graduate coordinator Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit.

ENG 645. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 646. Creative Writing Internship. 4 Units.
Prerequisites: completion of at least 36 units of coursework required by the program, consent of instructor, and approval of the M.F.A. coordinators 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.

ENG 647. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 648. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 649. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 650. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 651. Seminar in a Literary Topic. 4 Units.
Prerequisites: ENG 600 or consent of instructor Advanced study in particular topics in literature. May be repeated for credit as topics change.

ENG 652. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 653. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 654. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 655. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 656. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 657. Sites of Praxis. 4 Units.
Prerequisites: ENG 612 or consent of instructor 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.

ENG 658. Computers and Writing: Literacy and Technology. 4 Units.
Prerequisites: ENG 612 or consent of instructor 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.

ENG 659. Approaches to Teaching College-Level English Literature. 4 Units.
Study of varied methods and approaches to the teaching of literature in English at the college level.

ENG 660. Issues in Teaching College Composition. 4 Units.
Prerequisites: ENG 612 Study of the theories, principles, and methods of teaching first-year composition.

ENG 661. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor Study 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.

ENG 662. Internship in Composition. 2 Units.
Prerequisites: ENG 612; two courses from ENG 530, ENG 621, ENG 626, ENG 657, ENG 658, ENG 660; and approval of the graduate coordinator A practical application of composition theory, research, and pedagogy. Supervised teaching in the composition classroom. May be repeated once for credit.

ENG 663. Internship in Literature. 2 Units.
Prerequisites: ENG 612 and ENG 650; one course from ENG 601, ENG 602, ENG 603, ENG 604, ENG 651; and approval of the graduate coordinator 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.

ENG 664. Internship in ESL Teaching. 2 Units.
Prerequisites: ENG 619 and ENG 626; one course from ENG 523, ENG 615, ENG 616, ENG 617; and approval of the graduate coordinator Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit.

ENG 666. Seminar in Writing. 2 Units.
Prerequisites: consent of instructor 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.

ENG 670. Creative Writing Internship. 4 Units.
Prerequisites: completion of at least 36 units of coursework required by the program, consent of instructor, and approval of the M.F.A. coordinators 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.

ENG 687. Master's Project Seminar in Poetry. 4 Units.
Prerequisites: completion of 12 units of ENG 607 and at least half of the master's project, and advancement to candidacy 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.

ENG 688. Master's Project Seminar in Fiction. 4 Units.
Prerequisites: completion of 12 units of ENG 607 and at least half of the master's project, and advancement to candidacy 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.

ENG 695A. Culminating Experience Preparation: Thesis Preparation. 2 Units.
Prerequisites: ENG 609, completion of 24 units in the program, and consent of the graduate coordinator. May be taken more than once, but only 2 units count toward program Preparation of thesis proposal or preparation for comprehensive examination. 695a: Thesis Proposal Preparation . 695b: Comprehensive Examination Preparation.

ENG 695B. Culminating Experience Preparation: Comprehensive Examination Preparation. 2 Units.
Prerequisites: ENG 609, completion of 24 units in the program, and consent of the graduate coordinator. May be taken more than once, but only 2 units count toward program Preparation of thesis proposal or preparation for comprehensive examination.
ENG 696B. Graduate Independent Study. 2 Units.
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. 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.

ENG 696C. Graduate Independent Study. 3 Units.
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. 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.

ENG 696D. Graduate Independent Study. 4 Units.
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. 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.

ENG 696E. Graduate Independent Study. 5 Units.
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. 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.

ENG 696F. Thesis and Comprehensive Examination Independent Study. 6 Units.
Prerequisites: completion of coursework except for ENG 699A and 699B, or ENG 999 and approval of graduate coordinator. 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.

ENG 697D. Thesis and Comprehensive Examination Independent Study. 4 Units.
Prerequisites: completion of coursework except for ENG 699A and ENG 699B, or ENG 999 and approval of graduate coordinator. 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.

ENG 697E. Thesis and Comprehensive Examination Independent Study. 5 Units.
Prerequisites: completion of coursework except for ENG 699A and 699B, or ENG 999 and approval of graduate coordinator. 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.

ENG 697F. Thesis and Comprehensive Examination Independent Study. 6 Units.
Prerequisites: completion of coursework except for ENG 699A and ENG 699B, or ENG 999 and approval of graduate coordinator. 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.

ENG 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
ENG 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 699A. Thesis. 2 Units.
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
Independent graduate research in English composition and rhetoric, literature, linguistics, applied linguistics, or teaching English as a second language, culminating in a written thesis.

ENG 699B. Thesis and Research. 2 Units.
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
Independent graduate research in English composition and rhetoric, literature, linguistics, applied linguistics, or teaching English as a second language, culminating in a written thesis.

ENG 999. Comprehensive Examination. 0 Units.
Prerequisites: ENG 695; advancement to candidacy, approval of the graduate coordinator, and good academic standing
Assessment of the students 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.
Bachelor of Arts in English

Requirements (73 units)

Total units required for graduation: 180

Requirements for the B.A. in English

To be recommended for a single subject teaching credential program in English, students must include the courses under the English Teacher Preparation Program (p. 220) requirements.

Lower-division requirements (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 210</td>
<td>English Literature I</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 211</td>
<td>English Literature II</td>
<td></td>
</tr>
<tr>
<td>ENG 212</td>
<td>English Literature III</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 213</td>
<td>English Literature IV</td>
<td></td>
</tr>
</tbody>
</table>

Upper-division requirements (29)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 301A</td>
<td>Analysis of Poetry</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 301B</td>
<td>Analysis and Writing of Poetry</td>
<td></td>
</tr>
</tbody>
</table>

Note: Students who are seeking to be recommended for a single subject teaching credential program in English must take ENG 301B.

Four units chosen from:

- 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

Note: Students who are seeking to be recommended for a single subject teaching credential program in English must take four units from ENG 302B, ENG 303B, ENG 304B.

ENG 311 The English Language 4

ENG 325 American Literature I 4
or ENG 326 American Literature II

Four units chosen from:

- ENG 314 American Indian Literature
- ENG 319 Studies in Literary Diversity
- ENG 323 Chicano Literature
- ENG 336 Women Writers
- ENG 339 African American Literature
- ENG 385 Literary Theory and Criticism

ENG 475 Shakespeare I 4
or ENG 476 Shakespeare II

ENG 516 Senior Project 1

Track requirements (36)

Students must take thirty-six units chosen from one of the following tracks. 36

Total Units 73

Creative Writing Track (36 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 317</td>
<td>Introduction to Creative Writing: Poetry</td>
<td>4</td>
</tr>
<tr>
<td>ENG 318</td>
<td>Introduction to Creative Writing: Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENG 417</td>
<td>Intermediate Creative Writing: Poetry</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 418</td>
<td>Intermediate Creative Writing: Fiction</td>
<td></td>
</tr>
<tr>
<td>ENG 507</td>
<td>Advanced Creative Writing: Poetry</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 508</td>
<td>Advanced Creative Writing: Fiction</td>
<td></td>
</tr>
</tbody>
</table>

Four units chosen from:

- ENG 316 Introduction to Creative Writing: Specialized Genres
- ENG 347 Playwriting
- ENG 501 Media Performance Practicum
or TA 501 Media Performance Practicum
- ENG 511 Creative Writing in the Secondary Classroom
- ENG 513 Advanced Creative Writing in Specialized Genres
- ENG 522 Independent Study in Writing
- ENG 543A Literary Publication: Solicitation of Submissions
- ENG 543B Literary Publication: Production
- ENG 543C Literary Publication: Publicaiton Process
- TA 347 Playwriting
Any of ENG 417, ENG 418, ENG 507 or ENG 508 that is not used to satisfy one of the foregoing requirements.

Sixteen units of electives in English at least twelve units of which must be upper-division and 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.

Total Units 36

Linguistics Track (36 units)

ENG 312 Theories of Language Acquisition and Learning 4
ENG 321 Studies in Language and Linguistics 4
or ENG 422 History of the English Language
ENG 420 English Grammar I 4
ENG 523 English Grammar II 4
ENG 524 Sociolinguistics 4

Sixteen units of electives in English at least twelve units of which must be upper-division and 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.

Total Units 36

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

Master of Arts in English Composition

Requirements (48 units)

The Master of Arts in English Composition is designed for students interested in pursuing studies in the fields of composition, literature and linguistics. The concentration in English Composition focuses on writing —how written texts work rhetorically and stylistically; how historical and social conditions affect what we write and how we construct meaning as we read; and how to teach people to write effectively. The literature concentration allows students an option to focus on advanced studies in literature as well as composition. The concentration in 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

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.

Application and other materials must be received by:

<table>
<thead>
<tr>
<th>To begin the quarter of</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</td>
<td>July 1</td>
<td>Aug. 1</td>
</tr>
<tr>
<td>Winter</td>
<td>Nov. 1</td>
<td>Dec. 1</td>
</tr>
<tr>
<td>Spring</td>
<td>Jan. 23</td>
<td>Mar. 1</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 postsecondary institution in a country where English is the principal language of instruction must receive a minimum score of 575 (computer-based score of 233 or internet-based score of 90) on the Test of English as a Foreign Language (TOEFL); or receive a minimum score of 6.5 on the International English Language Testing System (IELTS)
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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>ENG 312</td>
<td>Theories of Language Acquisition and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ENG 420</td>
<td>English Grammar I</td>
<td></td>
</tr>
<tr>
<td>ENG 422</td>
<td>History of the English Language</td>
<td></td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

b. For the Concentration in Applied Linguistics and Teaching
English as a Second Language (TESL):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>ENG 312</td>
<td>Theories of Language Acquisition and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ENG 420</td>
<td>English Grammar I</td>
<td></td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENG 301A</td>
<td>Analysis of Poetry</td>
<td></td>
</tr>
<tr>
<td>ENG 301B</td>
<td>Analysis and Writing of Poetry</td>
<td></td>
</tr>
<tr>
<td>ENG 302A</td>
<td>Analysis of Drama</td>
<td></td>
</tr>
<tr>
<td>ENG 302B</td>
<td>Analysis and Writing of Drama</td>
<td></td>
</tr>
<tr>
<td>ENG 303A</td>
<td>Analysis of Prose Fiction</td>
<td></td>
</tr>
<tr>
<td>ENG 303B</td>
<td>Analysis and Writing of Prose Fiction</td>
<td></td>
</tr>
<tr>
<td>ENG 304A</td>
<td>Analysis of Nonfiction Prose</td>
<td></td>
</tr>
<tr>
<td>ENG 304B</td>
<td>Analysis and Writing of Nonfiction Prose</td>
<td></td>
</tr>
<tr>
<td>ENG 385</td>
<td>Literary Theory and Criticism</td>
<td></td>
</tr>
</tbody>
</table>

One upper-division course in British literature.

One upper-division course in American literature

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>ENG 312</td>
<td>Theories of Language Acquisition and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ENG 420</td>
<td>English Grammar I</td>
<td></td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

b. For the Concentration in Applied Linguistics and Teaching
English as a Second Language (TESL):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>ENG 312</td>
<td>Theories of Language Acquisition and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ENG 420</td>
<td>English Grammar I</td>
<td></td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

ENG 662 Internship in Composition 2

4. For students in the English Composition Concentration, English
Literature Concentration and Applied Linguistics and teaching
English as a Second Language 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. The graduation writing requirement is met upon successful
completion of the thesis or comprehensive examination;

6. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 600</td>
<td>Critical Approaches to Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENG 609</td>
<td>Perspectives on Research</td>
<td>4</td>
</tr>
<tr>
<td>ENG 612</td>
<td>Contemporary Composition and Discourse Theory</td>
<td>4</td>
</tr>
<tr>
<td>ENG 613</td>
<td>Seminar in Rhetoric and Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 615</td>
<td>Discourse Analysis: Theories and Applications</td>
<td>4</td>
</tr>
<tr>
<td>ENG 616</td>
<td>Contrastive Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENG 617</td>
<td>Linguistics Pragmatics</td>
<td></td>
</tr>
<tr>
<td>ENG 618</td>
<td>Stylistics</td>
<td></td>
</tr>
<tr>
<td>ENG 633</td>
<td>The Western Rhetorical Tradition I</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 634</td>
<td>The Western Rhetorical Tradition II</td>
<td></td>
</tr>
</tbody>
</table>

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 621</td>
<td>Approaches to Imaginative Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 625</td>
<td>TESL Methods and Materials for Speaking and Listening</td>
<td>12</td>
</tr>
<tr>
<td>ENG 626</td>
<td>TESL Methods and Materials for Reading and Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 630</td>
<td>Writing Center Studies</td>
<td></td>
</tr>
<tr>
<td>ENG 631</td>
<td>Approaches to Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 632</td>
<td>Sites of Praxis</td>
<td></td>
</tr>
<tr>
<td>ENG 658</td>
<td>Computers and Writing: Literacy and Technology</td>
<td></td>
</tr>
<tr>
<td>ENG 660</td>
<td>Issues in Teaching College Composition</td>
<td></td>
</tr>
<tr>
<td>ENG 662</td>
<td>Internship in Composition</td>
<td>2</td>
</tr>
</tbody>
</table>
ENG 695A  Culminating Experience Preparation: Thesis Preparation  2
or ENG 695B  Culminating Experience Preparation: Comprehensive Examination Preparation

Electives. 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.

Culminating Experience. Choose one of the following two options:  0-4

Thesis Option:
ENG 699A  Thesis
ENG 699B  Thesis and Research

Comprehensive Examination Option:
ENG 999  Comprehensive Examination

Total Units  48

English Literature Concentration (48 units)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

ENG 600  Critical Approaches to Literature  4
ENG 609  Perspectives on Research  4
ENG 612  Contemporary Composition and Discourse Theory  4

Four units chosen from:
ENG 615  Discourse Analysis: Theories and Applications  4
ENG 616  Contrastive Rhetoric  4
ENG 617  Linguistics Pragmatics  4
ENG 618  Stylistics  4
ENG 621  Approaches to Imaginative Writing  4

Twelve units chosen from:
ENG 601  Seminar in Poetry  4
ENG 602  Seminar in Dramatic Literature for Stage and Film  4
ENG 603  Seminar in Fiction  4
ENG 604  Seminar in Nonfiction Prose  4
ENG 651  Seminar in a Literary Topic  4
ENG 633  The Western Rhetorical Tradition I  4
or ENG 634  The Western Rhetorical Tradition II  4
ENG 663  Internship in Literature  2

ENG 695A  Culminating Experience Preparation: Thesis Preparation  2
or ENG 695B  Culminating Experience Preparation: Comprehensive Examination Preparation

Electives. 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.

Culminating Experience. Choose one of the following two options:  0-4

Thesis Option:
ENG 699A  Thesis
ENG 699B  Thesis and Research

Comprehensive Examination Option:
ENG 999  Comprehensive Examination

Total Units  48

Applied Linguistics and Teaching English as a Second Language (TESL) Concentration (48 units)

If TESL concentration students have completed ENG 523 and ENG 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 ENG 524 in the M.A. program.

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

ENG 523  English Grammar II  4
ENG 524  Sociolinguistics  4
ENG 609  Perspectives on Research  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
ENG 615  Discourse Analysis: Theories and Applications  4
ENG 616  Contrastive Rhetoric  4
or ENG 617  Linguistics Pragmatics  4
ENG 619  Second Language Acquisition  4
ENG 626  TESL Methods and Materials for Reading and Writing  4

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
ENG 664  Internship in ESL Teaching  2

ENG 695A  Culminating Experience Preparation: Thesis Preparation  2
or ENG 695B  Culminating Experience Preparation: Comprehensive Examination Preparation

Electives. 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.

Culminating Experience. Choose one of the following two options:  0-4

Thesis Option:
ENG 699A  Thesis
ENG 699B  Thesis and Research

Comprehensive Examination Option:
ENG 999  Comprehensive Examination

Total Units  48

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 must select from among two thesis project models and are required to complete a thesis project appropriate to their concentration: English composition and rhetoric, literature, or applied linguistics and teaching English as a second language. Dual concentration students must devise a thesis project relevant to both concentrations.

The first thesis model option is a traditional thesis: an independent project that demonstrates mastery of both the subject matter and the written discourse of the discipline and results in an original manuscript of approximately 60 pre-formatted pages plus bibliography.

To pursue this option, students develop an acceptable thesis project and prepare a proposal in accordance with program guidelines, consisting of a 1000-word proposal and an annotated bibliography. To develop a proposal and obtain approval of it, students carry out the following steps:

1. Complete ENG 695A with a grade of "B" or better;
2. Gain the support of a committee of two English Department faculty members (the thesis reading committee) and acquire a letter of endorsement in support of the proposal;
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.

The second thesis model option is an interrelated sequence of scholarly texts that demonstrate mastery of both the subject matter and the written discourse of the discipline an includes: a) a 25-30 page article of publishable quality suitable for post-graduation submission to a scholarly journal in the student’s field of study; b) an 8-10 page conference paper on the same subject, suitable for delivery at an identified professional conference; c) an abstract or conference proposal for the selected conference. Students complete this work by presenting their conference papers at an English department sponsored event.

To pursue this option, students develop an acceptable thesis project from work begun in one of the M.A. program seminar classes and prepare a 500 word thesis proposal that: a) announces the article project and purpose and explains how the work contributes to the field; b) identifies an appropriate professional journal to which this work might be submitted; c) identifies and appropriate professional conference at which a conference paper related to this work might be presented.

To develop a thesis proposal for this project and obtain approval of it, students carry out the following steps:

1. Complete ENG 695A with a grade of "B" or better;
2. Gain the support of a committee of two English Department faculty members (the thesis reading committee) and acquire a letter of endorsement in support of the proposal;
3. Submit the Thesis Proposal and letter of endorsement to the coordinator of the student’s concentration(s) for approval. Upon consultation with the sponsoring readers, the coordinator(s) will approve the proposal or refer it to the graduate committee for consideration. Students are responsible for revisions when necessary.

Note: To undertake the Thesis Option, a student must have 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 "C" or better) of ENG 695B.

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 (http://www.csumentor.edu). For additional information go to english.csusb (http://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:
   - ENG 311 The English Language
   - ENG 385 Literary Theory and Criticism
   - 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

   Two upper-division courses in literature; 8
   - 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 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).

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**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 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)**

- ENG 507 Advanced Creative Writing: Poetry 4
- ENG 513 Advanced Creative Writing in Specialized Genres (may be repeated as topics change) 4
- ENG 608 M.F.A. Workshop in Fiction (Must be completed in each of the six quarters of the program, for a total of 24)
- ENG 621 Approaches to Imaginative Writing 4
- ENG 622 Creative Writers on Writing 4
- ENG 688 Master’s Project Seminar in Fiction (Must be completed Fall and Winter quarters of the second year of the program, for a total of 8)

Students must complete either the following Teaching Focus or the Literature Focus for a total of twenty-four units.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>72</td>
</tr>
</tbody>
</table>

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 72 units.
### Teaching Focus

**ENG 612**  
Contemporary Composition and Discourse Theory  
4

**Twelve units chosen from:**  
- ENG 510  
  English in the Secondary Classroom  
- ENG 511  
  Creative Writing in the Secondary Classroom  
- ENG 626  
  TESL Methods and Materials for Reading and Writing  
- ENG 630  
  Writing Center Studies  
- ENG 657  
  Sites of Praxis  
- ENG 658  
  Computers and Writing: Literacy and Technology  
- ENG 660  
  Issues in Teaching College Composition  
- ENG 670  
  Creative Writing Internship

Electives. Electives must be approved in advance by the M.F.A. coordinators. Four units of electives can be outside of the English Department.  
8

**Total Units**  
24

### Literature Focus

**ENG 600**  
Critical Approaches to Literature  
4

**Twelve units chosen from:**  
- ENG 515  
  Senior Seminar in Literature  
- ENG 601  
  Seminar in Poetry  
- ENG 602  
  Seminar in Dramatic Literature for Stage and Film  
- ENG 603  
  Seminar in Fiction  
- ENG 604  
  Seminar in Nonfiction Prose  
- ENG 651  
  Seminar in a Literary Topic  
- ENG 670  
  Creative Writing Internship

Electives. Four units of electives can be outside of the English Department. Electives must be approved in advance by the M.F.A. coordinators.  
8

**Total Units**  
24

### Poetry Concentration (72 units)

**ENG 508**  
Advanced Creative Writing: Fiction  
4

**ENG 513**  
Advanced Creative Writing in Specialized Genres  
4

**(may be repeated as topics change)**

**ENG 607**  
M.F.A. Workshop in Poetry (Must be completed in each of the six quarters of the program, for a total of 24)

**ENG 621**  
Approaches to Imaginative Writing  
4

**ENG 622**  
Creative Writers on Writing

**ENG 687**  
Master's Project Seminar in Poetry (Must be completed Fall and Winter quarters of the second year of the program, for a total of 8)

Students must complete either the following Teaching Focus or the Literature Focus for a total of twenty-four units

**Total Units**  
72

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 72 units.

### Teaching Focus

**ENG 612**  
Contemporary Composition and Discourse Theory  
4

**Twelve units chosen from:**  
- ENG 510  
  English in the Secondary Classroom  
- ENG 511  
  Creative Writing in the Secondary Classroom  
- ENG 626  
  TESL Methods and Materials for Reading and Writing  
- ENG 630  
  Writing Center Studies  
- ENG 657  
  Sites of Praxis  
- ENG 658  
  Computers and Writing: Literacy and Technology  
- ENG 660  
  Issues in Teaching College Composition  
- ENG 670  
  Creative Writing Internship

Electives. Electives must be approved in advance by the M.F.A. coordinators. Four units of electives can be outside of the English Department.  
8

**Total Units**  
24

### Literature Focus

**ENG 600**  
Critical Approaches to Literature  
4

**Twelve units chosen from:**  
- ENG 515  
  Senior Seminar in Literature  
- ENG 543A  
  Literary Publication: Solicitation of Submissions  
- ENG 543B  
  Literary Publication: Production  
- ENG 543C  
  Literary Publication: Publicaiton Process  
- ENG 601  
  Seminar in Poetry  
- ENG 602  
  Seminar in Dramatic Literature for Stage and Film  
- ENG 603  
  Seminar in Fiction  
- ENG 604  
  Seminar in Nonfiction Prose  
- ENG 651  
  Seminar in a Literary Topic  
- ENG 670  
  Creative Writing Internship

Electives. Four units of electives can be outside of the English Department. Electives must be approved in advance by the M.F.A. coordinators.  
8

**Total Units**  
24

### Minor in English

### Requirements (32 units)

#### Requirements for a minor in English

**ENG 311**  
The English Language  
4

Four units chosen from:

- 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

Eight units chosen from:

- ENG 210  
  English Literature I
- ENG 211  
  English Literature II
Certificate in Teaching English as a Second Language

Requirements (30 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

ENG 312 Theories of Language Acquisition and Learning 4
ENG 420 English Grammar I 4
ENG 524 Sociolinguistics 4
ENG 619 Second Language Acquisition 4
ENG 625 TESL Methods and Materials for Speaking and Listening 4
or ENG 626 TESL Methods and Materials for Reading and Writing
ENG 664 Internship in ESL Teaching 2

Eight units chosen from:

ENG 523 English Grammar II 4
ENG 615 Discourse Analysis: Theories and Applications
ENG 616 Contrastive Rhetoric
ENG 617 Linguistics Pragmatics
ENG 625 TESL Methods and Materials for Speaking and Listening (if not used above)
ENG 626 TESL Methods and Materials for Reading and Writing (if not used above)

Total Units 30

Certificate in Teaching Writing

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### 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. Completion of ENG 306 or equivalent 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 240</td>
<td>Writing in the Public Sphere</td>
<td>4</td>
</tr>
<tr>
<td>ENG 329</td>
<td>Issues in Literacy and Writing Studies</td>
<td>4</td>
</tr>
<tr>
<td>ENG 612</td>
<td>Contemporary Composition and Discourse Theory</td>
<td>4</td>
</tr>
<tr>
<td>ENG 660</td>
<td>Issues in Teaching College Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENG 662</td>
<td>Internship in Composition</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Twelve units chosen from:</td>
<td>12</td>
</tr>
<tr>
<td>ENG 626</td>
<td>TESL Methods and Materials for Reading and Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 630</td>
<td>Writing Center Studies</td>
<td></td>
</tr>
<tr>
<td>ENG 657</td>
<td>Sites of Praxis</td>
<td></td>
</tr>
<tr>
<td>ENG 658</td>
<td>Computers and Writing: Literacy and Technology</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 30

### Certificate in Writing: Professional Writing

#### Requirements (31 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 317</td>
<td>Introduction to Creative Writing: Poetry</td>
<td>4</td>
</tr>
<tr>
<td>ENG 318</td>
<td>Introduction to Creative Writing: Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENG 417</td>
<td>Intermediate Creative Writing: Poetry</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 418</td>
<td>Intermediate Creative Writing: Fiction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>ENG 507</td>
<td>Advanced Creative Writing: Poetry</td>
<td></td>
</tr>
<tr>
<td>ENG 508</td>
<td>Advanced Creative Writing: Fiction</td>
<td></td>
</tr>
<tr>
<td>ENG 513</td>
<td>Advanced Creative Writing in Specialized Genres</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eight units from any upper-division English courses which may include ENG 621.</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units 28

### Certificate in Writing: Creative Writing

#### Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 240</td>
<td>Writing for Media</td>
<td>4</td>
</tr>
<tr>
<td>COMM 243A</td>
<td>Communication Practicum: Print and Online Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>
### Upper-division requirements (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
<td>4</td>
</tr>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 342</td>
<td>Publication Design and Makeup</td>
</tr>
<tr>
<td>COMM 442</td>
<td>Public Relations Campaigns</td>
</tr>
<tr>
<td>ENG 631</td>
<td>Approaches to Professional Writing</td>
</tr>
</tbody>
</table>

Eight units chosen from Group A or B below.

**Total Units**: 31

### Group A

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 420</td>
<td>English Grammar I</td>
</tr>
<tr>
<td>ENG 422</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>PHIL 387</td>
<td>Philosophy of Language</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 311</td>
<td>Business and Professional Communication</td>
</tr>
<tr>
<td>COMM 342</td>
<td>Publication Design and Makeup</td>
</tr>
<tr>
<td>ENG 522</td>
<td>Independent Study in Writing</td>
</tr>
<tr>
<td>ENG 565</td>
<td>Special Studies in Writing</td>
</tr>
<tr>
<td>ENG 566</td>
<td>Special Studies in Writing</td>
</tr>
<tr>
<td>ENG 631</td>
<td>Approaches to Professional Writing</td>
</tr>
</tbody>
</table>

### Group B

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 311</td>
<td>Business and Professional Communication</td>
</tr>
<tr>
<td>COMM 342</td>
<td>Publication Design and Makeup</td>
</tr>
<tr>
<td>ENG 522</td>
<td>Independent Study in Writing</td>
</tr>
<tr>
<td>ENG 565</td>
<td>Special Studies in Writing</td>
</tr>
<tr>
<td>ENG 566</td>
<td>Special Studies in Writing</td>
</tr>
<tr>
<td>ENG 631</td>
<td>Approaches to Professional Writing</td>
</tr>
</tbody>
</table>
Colleges, Schools, and Departments

Department of Music

Accredited by the National Association of Schools of Music (NASM)

Department of Music

Performing Arts Building, Room 111
(909) 537-5859 Department of Music (http://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
• Recording Arts

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 MUS 101),
2. a piano proficiency audition, and
3. an applied music audition (performance proficiency equal to collegiate 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-MUS 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-MUS 145 and MUS 240-MUS 245) prior to acceptance into applied technology instruction (MUS 346).

Students whose performance competencies are deemed deficient by the music faculty will be required to enroll in preparatory applied music instruction (at the 80-85 level). Students will be permitted to enroll in preparatory applied music instruction for a total of three units. Units awarded for preparatory applied music instruction are not applicable to the music program nor a baccalaureate degree. These courses are graded credit/no credit.

Students may enroll in a maximum of six quarter units at any one collegiate level of applied instruction (MUS 140- MUS 145, MUS 240-MUS 246, MUS 340-MUS 348, or MUS 440-MUS 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.

Teaching Credential Program

Students wishing to be recommended for the single subject teaching credential in music must complete the core requirements and Music Education Emphasis of the major in music, as well as certain prerequisites to the teacher education program. For information about the professional education component of the credential program, admission to the teacher education program and specific requirements for the single subject waiver program contact the Credentials Office, CE-102.

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, composition or scholarship as determined by judgment of Music Department faculty.

This may be based on a project, performance, competition, teaching or other activity on or off campus.

Course Offerings

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

History and Literature

The history and literature courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized
World Music
The world music 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.

Composition
Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences.

Music Education
Music education courses are designed for the prospective elementary and secondary school teacher.

Applied Music
Music majors are required to take a minimum of nine units of applied music. Permission to register in either lower- or upperdivision 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.

Performance Organizations
Participation in performance organizations may be repeated for credit.

Current Faculty
Catherine (Stacey) Fraser, Professor
B.M. 1994, University of Toronto
M.M. 1996, Manhattan School of Music
D.M.A. 2003, University of California, San Diego

Erik Jester, Assistant Professor
B.M. 2005, M.M. 2008, Pennsylvania State University Main Campus
D.M.A., University Of Wisconsin, 2011

Todd Johnson, Professor, Chair
B.M./B.S. 1988, Central Michigan University
M.M. 1989, Northwestern University
D.M.A. 1999, University of Oklahoma

Robert J. Knop, Associate Professor
B.M. 1971, Roosevelt University
M.M. 1998, Northern Illinois University

Lucy Lewis, Assistant Professor
B.M./B.S. 2008, Andrews University
M.M. 2011, University of Cincinnati

Allen Menton, Lecturer
B.M. 2001, California State University, Long Beach
M.M. 2003, University of Southern California
Ph.D. 2009, University of California, Los Angeles

James V. Radomski, Professor
B.M., B.A. 1976, Oberlin College
M.A. 1981, University of California, Berkeley
Ph.D. 1992, University of California, Los Angeles

John Russell, Assistant Professor
Ph.D., 2013, University of Southern California

Emeriti
Edward J. Bostley, Professor
Loren Filbeck, Professor
Larry E. McFatter, Professor
Jerrold Pritchard, Professor

Undergraduate Degrees
Bachelor of Arts
• Music (p. 255) with emphases in:
  • Commercial Music
  • Music Education
  • Performance/Composition
  • General Music Studies
  • Music Technology
  • Musical Theatre
  • Ethnomusicology
  • Music History

Minors
• Jazz Studies (p. 257)
• Music (p. 257)
• Recording Arts (p. 258)

Courses
MUS 80. Preparatory Voice. 1 Unit.
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.
MUS 81. Preparatory Piano. 1 Unit.
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.

MUS 82A. Preparatory String Instrument:
Violin. 1 Unit.
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.

MUS 82B. Preparatory String Instrument:
Viola. 1 Unit.
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.

MUS 82C. Preparatory String Instrument:
Cello. 1 Unit.
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.

MUS 82D. Preparatory String Instrument:
Bass. 1 Unit.
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.

MUS 82E. Preparatory String Instrument:
Guitar. 1 Unit.
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.

MUS 82F. Preparatory String Instrument:
Harp. 1 Unit.
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.

MUS 83A. Preparatory Wind Instrument:
Flute. 1 Unit.
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.

MUS 83B. Preparatory Wind Instrument:
Clarinet. 1 Unit.
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.

MUS 83C. Preparatory Wind Instrument:
Oboe. 1 Unit.
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.

MUS 83D. Preparatory Wind Instrument:
Bassoon. 1 Unit.
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.

MUS 83E. Preparatory Wind Instrument:
Saxophone. 1 Unit.
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.

MUS 84A. Preparatory Brass Instrument:
Trumpet. 1 Unit.
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.

MUS 84B. Preparatory Brass Instrument:
Horn. 1 Unit.
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.

MUS 84C. Preparatory Brass Instrument:
Trombone. 1 Unit.
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.

MUS 84D. Preparatory Brass Instrument:
Tuba. 1 Unit.
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.

MUS 85. Preparatory Percussion. 1 Unit.
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.

MUS 100. Fundamentals of Music Theory. 3
Units.
Prerequisites: declared major in Music, minor in Music, minor in Jazz
Studies, or minor in Recording Arts
Rudiments of music theory: pitch, rhythm, scales, key and time
signatures, intervals, triads, inversion. Must be taken concurrently with
MUS 101.
MUS 101. Basic Musicianship. 1 Unit.
Applied musicianship experience including sight-singing, solfège, and dictation. Credits may not be counted toward fulfilling the requirements of the music major. Must be taken concurrently with MUS 100.

MUS 120. Theory I. 3 Units.
Prerequisites: MUS 100 and 101 or equivalent, or department placement examination or consent of instructor
Introduction of basic concepts of tonal harmony and form. Diatonic triads, non-harmonic tones, chord progressions, and melodic form. Must be taken concurrently with MUS 121.

MUS 121. Musicianship I. 1 Unit.
Continuation of MUS 101. Applied musicianship experience including sight-singing, solfège, and dictation Must be taken concurrently with MUS 120.

MUS 122. Theory II. 3 Units.
Prerequisites: MUS 120 and MUS 121 or equivalent or consent of instructor
Continuation of MUS 120. Introduction of diatonic seventh chords, secondary dominants, and modulation. Must be taken concurrently with MUS 123.

MUS 123. Musicianship II. 1 Unit.
Prerequisites: MUS 120 and MUS 121 or equivalent
Continuation of MUS 121. Applied musicianship experience including sight-singing, solfège, and dictation. Must be taken concurrently with MUS 122.

MUS 124. Theory III. 3 Units.
Prerequisites: MUS 122 and MUS 123 or equivalent, or consent of instructor
Continuation of MUS 122. Melody, harmony and texture as they inform musical structure in the Baroque era; counterpoint and contrapuntal forms in the Baroque; analysis of representative compositions. Must be taken concurrently with MUS 125. Formerly MUS 320.

MUS 125. Musicianship III. 1 Unit.
Prerequisites: MUS 122 and MUS 123 or equivalent or consent of instructor
Continuation of MUS 123. Applied musicianship experience including sigh-singing, solfège, and dictation. Formerly MUS 321. Must be taken concurrently with MUS 124.

MUS 140. Lower-Division Voice I. 1 Unit.
Prerequisites: placement audition and approval of music faculty
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.

MUS 141A. Lower-Division Keyboard Instrument I: Piano. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 141B. Lower-Division Keyboard Instrument I: Organ. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 141C. Lower-Division Keyboard Instrument I: Harpsichord. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 142A. Lower-Division String Instrument I: Violin. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 142B. Lower-Division String Instrument I: Viola. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 142C. Lower-Division String Instrument I: Cello. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 142D. Lower-Division String Instrument I: Bass. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 142E. Lower-Division String Instrument I: Guitar. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 142F. Lower-Division String Instrument I: Harp. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 143A. Lower-Division Wind Instrument I: Flute. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 143B. Lower-Division Wind Instrument I: Clarinet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 143C. Lower-Division Wind Instrument I: Oboe. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.
MUS 143D. Lower-Division Wind Instrument I: Bassoon. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 143E. Lower-Division Wind Instrument I: Saxophone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 144A. Lower-Division Brass Instrument I: Trumpet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 144B. Lower-Division Brass Instrument I: Horn. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 144C. Lower-Division Brass Instrument I: Trombone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 144D. Lower-Division Brass Instrument I: Tuba. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 145. Lower-Division Percussion Instrument I. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 180. Studies in Music. 4 Units.
(GE=C1)
Exploration of the elements of music and the nature of meaning and
musical style, with emphasis on listening and analysis.

MUS 202A. Class Woodwinds I. 1 Unit.
Beginning study on selected woodwinds. A minimum of one additional
hour per quarter of guided field experience at an approved setting is
required.

MUS 202B. Class Woodwinds II. 1 Unit.
Prerequisites: MUS 202A
Continued study on selected woodwinds. A minimum of one additional
hour per quarter of guided field experience at an approved setting is
required.

MUS 203A. Class Brass I. 1 Unit.
Beginning study on selected brass instruments. A minimum of one
additional hour per quarter of guided field experience at an approved
setting is required.

MUS 203B. Class Brass II. 1 Unit.
Prerequisites: MUS 203A
Continued study on selected brass instruments. A minimum of one
additional hour per quarter of guided field experience at an approved
setting is required.

MUS 204A. Class Percussion I. 1 Unit.
Beginning study of percussion instruments. A minimum of one additional
hour per quarter of guided field experience at an approved setting is
required.

MUS 204B. Class Percussion II. 1 Unit.
Prerequisites: MUS 204A
Continued study of percussion instruments. A minimum of one additional
hour per quarter of guided field experience at an approved setting is
required.

MUS 205A. Class Guitar I. 1 Unit.
Beginning study of guitar.

MUS 205B. Class Guitar II. 1 Unit.
Continued study of guitar.

MUS 206. Class Voice. 1 Unit.
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.

MUS 208. Vocal Music Literature. 1 Unit.
A survey of major works of solo and ensemble vocal literature.

MUS 209. Instrumental Music Literature. 2 Units.
A survey of major works of solo and ensemble instrumental literature.

MUS 210. Conducting. 2 Units.
Prerequisites: MUS 122 and MUS 123 or equivalent
Introduction to basic conducting techniques. A minimum of two additional
hours per quarter of guided field experience at an approved setting is
required.

MUS 211A. Diction for Singers I. 2 Units.
A study of the International Phonetic Alphabet and how it applies to
the proper usage of lyric diction for the Latin, Italian and English vocal
literature. Examples drawn from standard sacred, operatic and song
literature.
MUS 211B. Diction for Singers II. 2 Units.  
A study of the International Phonetic Alphabet and how it applies to the proper usage of lyric diction for the French and German vocal literature. 
Examples drawn from standard operatic and song literature.  

MUS 212. Choral Music Literature. 2 Units. 
A survey of major works of ensemble vocal literature.  

MUS 220. Class Piano I. 1 Unit.  
Prerequisites: permission of department  
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major.  

MUS 221. Class Piano II. 1 Unit.  
Prerequisites: MUS 220 and permission of the department  
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major.  

MUS 222. Class Piano III. 1 Unit.  
Prerequisites: MUS 221 and permission of the department  
Basic keyboard techniques, including music reading, keyboard harmony and improvisation.  

MUS 225. Music in the Theatre. 4 Units.  
A survey of music as it is allied with drama, dance and film.  

MUS 230. Introduction to Jazz Improvisation. 2 Units.  
Prerequisites: MUS 122, MUS 123, MUS 221 or equivalent, or consent of instructor  
Techniques of jazz improvisation including melodic construction, functional jazz harmonies, practice techniques, primary chord types, auxiliary tones, chromaticism and 12-bar blues form. May be repeated for credit.  

MUS 235. Popular Music Literature. 4 Units. 
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.  

MUS 240. Lower-Division Voice II. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
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.  

MUS 241A. Lower-Division Keyboard Instrument II: Piano. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.  

MUS 241B. Lower-Division Keyboard Instrument II: Organ. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.  

MUS 241C. Lower-Division Keyboard Instrument II: Harpsichord. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
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.  

MUS 242A. Lower-Division String Instrument II: Violin. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 242B. Lower-Division String Instrument II: Viola. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 242C. Lower-Division String Instrument II: Cello. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 242D. Lower-Division String Instrument II: Bass. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 242E. Lower-Division String Instrument II: Guitar. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 242F. Lower-Division String Instrument II: Harp. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.  

MUS 243A. Lower-Division Wind Instrument II: Flute. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243B. Lower-Division Wind Instrument II: Clarinet. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243C. Lower-Division Wind Instrument II: Oboe. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243D. Lower-Division Wind Instrument II: Bassoon. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243E. Lower-Division Wind Instrument II: Horn. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243F. Lower-Division Wind Instrument II: Piccolo. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243G. Lower-Division Wind Instrument II: Trumpet. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243H. Lower-Division Wind Instrument II: French horn. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243I. Lower-Division Wind Instrument II: Trombone. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.  

MUS 243J. Lower-Division Wind Instrument II: Tuba. 1 Unit.  
Prerequisites: placement audition and approval of music faculty 
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.
MUS 243D. Lower-Division Wind Instrument II: Bassoon. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 243E. Lower-Division Wind Instrument II: Saxophone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 244A. Lower-Division Brass Instrument II: Trumpet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 244B. Lower-Division Brass Instrument II: Horn. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 244C. Lower-Division Brass Instrument II: Trombone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 244D. Lower-Division Brass Instrument II: Tuba. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 245. Lower-Division Percussion Instrument II. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 246. Lower-Division Composition. 1 Unit.
Prerequisites: MUS 122 and MUS 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
One-half hour per week of private instruction. Must be taken concurrently
with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated
for a maximum of six units.

MUS 250. Theory IV. 3 Units.
Prerequisites: MUS 124 and MUS 125 or equivalent or consent of
instructor
Continuation of MUS 124. Melody, Harmony, and texture as they inform
musical structure in the Classical era; sonata and rondo forms; Neapolitan
and Augmented sixth chords; analysis of representative compositions.
Must be taken concurrently with MUS 251. Formerly MUS 322.

MUS 251. Musicianship IV. 1 Unit.
Prerequisites: MUS 124 and MUS 125 or equivalent or consent of
instructor
Continuation of MUS 125. Applied musicianship experience including
sight-singing, solfege, and dictation. Formerly MUS 323. Must be taken
concurrently with MUS 250.

MUS 252. Theory V. 3 Units.
Prerequisites: MUS 250 and MUS 252 or equivalent or consent of
instructor
Continuation of MUS 250. Melody, Harmony, and texture as they inform
musical structure in the Romantic era; chromatic dominants, extended
tertian chords, enharmonic modulations; analysis of representative compositions. Must be taken concurrently with MUS 253. Formerly MUS 324.

MUS 253. Musicianship V. 1 Unit.
Prerequisites: MUS 250 and MUS 251 or equivalent or consent of
instructor
Continuation of MUS 251. Applied musicianship experience including
sight-singing, solfege, and dictation. Formerly MUS 325. Must be taken
concurrently with MUS 252.

MUS 254. Theory VI. 3 Units.
Prerequisites: MUS 252 and 253 or equivalent, or consent of instructor
Continuation of MUS 252. Melody, Harmony, and texture as they inform
musical structure in the twentieth century; Impressionism, Primitivism
(Stravinsky and Bartok), German Expressionism and Set Theory,
twelve-tone serialism, post-war techniques; analysis of representative compositions. Must be taken concurrently with MUS 255.

MUS 255. Musicianship VI. 1 Unit.
Prerequisites: MUS 252 and 253 or equivalent, or consent of instructor
Continuation of MUS 253. Applied musicianship experience including
sight-singing, solfege, and dictation. Must be taken concurrently with MUS
254.

MUS 260. Commercial Songwriting. 2 Units.
Prerequisites: MUS 122, MUS 123, and consent of department
Introduction to the history, development and practice of computer and
electronic music. Non-majors are encouraged to enroll.

MUS 266. Introduction to Computer and Electronic Music. 4 Units.
An introduction to the history, development and practice of computer and
electronic music. Non-majors are encouraged to enroll.

MUS 301. Choral Conducting. 1 Unit.
Prerequisites: MUS 210
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.
MUS 302. Music Theatre Production. 2 Units.  
Preparation and performance of major musical theater productions, including Broadway-styled musicals, opera, opera scenes, madrigal feasts, variety shows, and the like. May be repeated for credit. Total credit units that apply to any degree emphasis area are outlined in the specific catalog description for that emphasis.

MUS 303. Instrumental Conducting. 1 Unit.  
Prerequisites: MUS 210  
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.

MUS 304. History of Music I. 4 Units.  
Prerequisites: MUS 122 and MUS 123 or consent of instructor  
Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study.

MUS 305. History of Music II. 4 Units.  
Prerequisites: MUS 122 and MUS 123 or consent of instructor  
Continuation of MUS 304. Baroque to the late nineteenth century.

MUS 306. History of Music III. 4 Units.  
Prerequisites: MUS 122 and MUS 123 or consent of instructor  
Continuation of MUS 305. Late Romantic to the present.

MUS 307. Music of 20th and 21st Centuries. 4 Units.  
Prerequisites: MUS 306 or consent of instructor  
Intensive study of musical currents in the 20th and 21st centuries.

MUS 308. Women in Music. 4 Units.  
(GE=G2)  
Contributions of women to the occidental and non-Western musical heritage in the areas of composition, performance and dance.

MUS 309. Jazz History in America and African-American Culture. 4 Units.  
(GE=G2)  
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.

MUS 330. Advanced Jazz Improvisation. 2 Units.  
Prerequisites: MUS 230 or equivalent, or consent of instructor  
Continuation of MUS 230. Studies of advanced techniques including chromatic harmony, tritone substitutions, substitute harmonic idioms, polyharmony, modal jazz, quartal jazz, and rhythm changes.

MUS 340. Upper-Division Voice I. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
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.

MUS 341A. Upper-Division Keyboard Instrument I: Piano. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 341B. Upper-Division Keyboard Instrument I: Organ. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
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.

MUS 341C. Upper-Division Keyboard Instrument I: Harpsichord. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
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.

MUS 342A. Upper-Division String Instrument I: Violin. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 342B. Upper-Division String Instrument I: Viola. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 342C. Upper-Division String Instrument I: Cello. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 342D. Upper-Division String Instrument I: Bass. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 342E. Upper-Division String Instrument I: Guitar. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 342F. Upper-Division String Instrument I: Harp. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 380. May be repeated for a maximum of six units.

MUS 343A. Upper-Division Wind Instrument I: Flute. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 343B. Upper-Division Wind Instrument I: Clarinet. 1 Unit.  
Prerequisites: placement audition and approval of music faculty  
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.
MUS 343C. Upper-Division Wind Instrument I: Oboe. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 343D. Upper-Division Wind Instrument I: Bassoon. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 343E. Upper-Division Wind Instrument I: Saxophone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 344A. Upper-Division Brass Instrument I: Trumpet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 344B. Upper-Division Brass Instrument I: Horn. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 344C. Upper-Division Brass Instrument I: Trombone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 344D. Upper-Division Brass Instrument I: Tuba. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 345. Upper-Division Percussion Instrument I. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with MUS 381. May be repeated for a maximum of six units.

MUS 346. Upper-Division Composition I. 1 Unit.
Prerequisites: placement audition and approval of music faculty
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.

MUS 348. Applied Technology I. 1 Unit.
Prerequisites: MUS 416 or MUS 427 and approval of music faculty
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.

MUS 349. Applied Commercial Music. 1 Unit.
Prerequisites: MUS 266 and MUS 414 and approval of music faculty
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, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 350. Music of World Cultures. 4 Units.
(GE=G2)
A study of the major musical traditions of the world in their cultural context.

MUS 351. Latin American Music. 4 Units.
An overview of the history and current performance practices of classical, folk, and popular music of Latin America.

MUS 352. African American Music. 4 Units.
Historical development of the African American musical heritage.

MUS 360. Music in the United States. 4 Units.
Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition.

MUS 370. Music for Elementary Classroom Teachers. 3 Units.
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 of Visual and Performing Arts. Two hours lecture and two hours activity.

MUS 372. Music Materials for Classroom Teachers. 4 Units.
Prerequisites: MUS 100 or 370 or consent of instructor
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 textbooks 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.
MUS 374. Music Methods for Classroom Teachers. 4 Units.
Prerequisites: MUS 100 or 370 or consent of instructor
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.

MUS 375. Music Theatre Internship. 2 Units.
Prerequisites: DAN 300, MUS 340, and either MUS 302, MUS 387 or TA 302
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.

MUS 380. Chamber Orchestra. 1 Unit.
Prerequisites: consent of instructor
Performance of representative orchestral literature.

MUS 381. Symphonic Band. 1 Unit.
Performance of representative symphonic band literature.

MUS 382A. Chamber Music: Woodwinds. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382B. Chamber Music: Percussion. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382C. Chamber Music: Flute Choir. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382D. Chamber Music: Brass Quintet. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382E. Chamber Music: Saxophone. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382F. Chamber Music: Guitar Ensemble. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382G. Chamber Music: Clarinet Ensemble. 1 Unit.
Prerequisites: consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 382H. Chamber Music: Jazz Combo. 1 Unit.
Prerequisites: MUS 230 or consent of instructor
Performance of small ensemble music as determined by available instrumentation.

MUS 385. Concert Choir. 1 Unit.
Prerequisites: consent of instructor
Performance of representative choral literature.

MUS 386. Chamber Singers. 1 Unit.
Prerequisites: consent of instructor

MUS 387. Opera Theatre I. 1 Unit.
Prerequisites: consent of instructor
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.

MUS 388. Women’s Chorus. 1 Unit.
Performance of representative choral literature for women’s ensemble.

MUS 389. Chamber Winds. 1 Unit.
Prerequisites: consent of instructor
Performance of representative literature for wind ensemble.

MUS 391. Jazz Ensemble. 1 Unit.
Prerequisites: consent of instructor
Performance of representative jazz ensemble literature.

MUS 392. Vocal Jazz. 1 Unit.
Prerequisites: consent of instructor
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.

MUS 393. Collegium Musicum. 1 Unit.
Prerequisites: consent of instructor
Performance of representative vocal and instrumental literature from the Medieval and Renaissance periods. Four hours activity per week.

MUS 395. Symphonic Choir. 1 Unit.
Prerequisites: consent of instructor
Performance of major works for large choral ensemble. Will present at least one public performance per quarter. Open to all students by audition.

MUS 396. Reverence Singers. 1 Unit.
Performance of vocal literature from the Afro-American tradition.
MUS 397. Opera Theatre II. 2 Units.
Prerequisites: MUS 387 in the same academic year
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.

MUS 399A. Community Service Project. 1 Unit.
Prerequisites: consent of instructor
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.

MUS 399B. Community Service Project. 2 Units.
Prerequisites: consent of instructor
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.

MUS 400. Studies in Composers. 4 Units.
Prerequisites: MUS 306 or consent of instructor
Intensive study in the life and works of a particular composer. Content will vary. May be repeated for credit as topics change.

MUS 401. History of Musical Theatre. 4 Units.
History of musical theatre literature and production. Also offered as MUS 401; students may not receive credit for both.

MUS 402. Studies in Genres. 4 Units.
Prerequisites: MUS 306 or consent of instructor
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.

MUS 406. Orchestration. 2 Units.
Prerequisites: MUS 122 and MUS 123 or consent of instructor
Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups.

MUS 408. Arranging. 2 Units.
Prerequisites: MUS 406 or consent of instructor
Continuation of MUS 406. Techniques of arranging for instrumental and vocal groups.

MUS 410. Music in the Elementary Schools. 4 Units.
Prerequisites: MUS 315 or consent of instructor
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.

MUS 411. Teaching Music in Secondary Schools. 4 Units.
Prerequisites: MUS 324 or consent of instructor
Materials and objectives for teaching music in the secondary schools, including specialized instrumental and choral programs and marching band techniques. Field work is included.

MUS 414. Commercial Arranging and Scoring. 2 Units.
Prerequisites: MUS 260 and MUS 406 or consent of instructor
Arranging and scoring techniques for groups of varied instrumentation, and for various commercial applications, including traditional songs, jingles, and video scoring.

MUS 416. Advanced Computer and Electronic Music. 4 Units.
Prerequisites: MUS 266 or consent of instructor
Intensive study in the history, development and practice of computer and electronic music.

MUS 417. Composition for Films and Television. 4 Units.
Prerequisites: MUS 414 or consent of instructor
Study of the aesthetic, psychological and practical techniques involved in composing music for films and television.

MUS 426. Studies in Music History. 4 Units.
Prerequisites: MUS 304, 305 and 306 or consent of instructor
Intensive study in selected style periods of music. May be repeated for credit as topics change.

MUS 427. Advanced Studio Recording Techniques. 4 Units.
Prerequisites: MUS 267 or consent of instructor
Intensive course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing.

MUS 429. Topics in Music Technology. 4 Units.
Prerequisites: MUS 416 or consent of instructor
Areas of special interest in the field of music technology. May be repeated for credit as topics change.

MUS 440. Upper-Division Voice II. 1 Unit.
Prerequisites: placement audition and approval of music faculty
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.

MUS 441A. Upper-Division Keyboard Instrument II: Piano. 1 Unit.
Prerequisites: placement audition and approval of music faculty
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.

MUS 441B. Upper-Division Keyboard Instrument II: Organ. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.
MUS 441C. Upper-Division Keyboard Instrument II: Harpsichord. 1 Unit.
Prerequisites: placement audition and approval of music faculty
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.

MUS 442A. Upper-Division String Instrument II: Violin. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 442B. Upper-Division String Instrument II: Viola. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 442C. Upper-Division String Instrument II: Cello. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 442D. Upper-Division String Instrument II: Bass. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 442E. Upper-Division String Instrument II: Guitar. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 442F. Upper-Division String Instrument II: Harp. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 380. May be repeated for a maximum of six units.

MUS 443A. Upper-Division Wind Instrument II: Flute. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 443B. Upper-Division Wind Instrument II: Clarinet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 443C. Upper-Division Wind Instrument II: Oboe. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 443D. Upper-Division Wind Instrument II: Bassoon. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 443E. Upper-Division Wind Instrument II: Saxophone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 444A. Upper-Division Brass Instrument II: Trumpet. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 444B. Upper-Division Brass Instrument II: Horn. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 444C. Upper-Division Brass Instrument II: Trombone. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 444D. Upper-Division Brass Instrument II: Tuba. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 445. Upper-Division Percussion Instrument II. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with MUS 381. May be repeated for a maximum of six units.

MUS 446. Upper-Division Composition II. 1 Unit.
Prerequisites: placement audition and approval of music faculty
One-half hour per week of private instruction. Must be taken concurrently
with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated
for a maximum of six units.

MUS 448. Applied Technology. 1 Unit.
Prerequisites: MUS 348 or consent of instructor
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, MUS 381,
MUS 385, or MUS 386. May be repeated for a maximum of six units.
MUS 475. Internship in Commercial Music. 2 Units.
Prerequisites: MUS 414 and 349
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.

MUS 498. Junior Project. 1 Unit.
Prerequisites: junior standing and consent of department. Formerly MUS 992
Independent study with applied instructor or principal instructor in area of emphasis.

MUS 499. Junior Recital. 1 Unit.
Prerequisites: junior standing, attained 300-level in applied study, and consent of department. Formerly MUS 995
Preparation for recital with applied instructor.

MUS 510. Special Topics in Music. 4 Units.
Prerequisites: consent of instructor
Areas of special interest in the various fields of music selected for special presentation and development. May be repeated for credit as topics change.

MUS 513. Orff Schulwerk Level I. 4 Units.
Prerequisites: consent of instructor
Music learning and teaching through the application of the Orff Schulwerk approach.

MUS 514. Orff Schulwerk Level II. 4 Units.
Prerequisites: MUS 513
Music learning and teaching through the application of the Orff Schulwerk approach.

MUS 516. Teaching Recorder in the Elementary Classroom I. 2 Units.
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.

MUS 517. Teaching Recorder in the Elementary Classroom II. 2 Units.
Prerequisites: MUS 516
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.

MUS 519. Audio Production. 2 Units.
Methods for creating appropriate musical/audio instructional materials using basic audio production equipment. Does not count toward the music major.

MUS 528A. Special Projects. 1 Unit.
Prerequisites: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit.

MUS 528B. Special Projects. 2 Units.
Prerequisites: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit.

MUS 528C. Special Projects. 3 Units.
Prerequisites: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit.

MUS 528D. Special Projects. 4 Units.
Prerequisites: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit.

MUS 535. Computer Studies for Music Teachers. 2 Units.
Prerequisites: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit.

MUS 542. Studies in Musical Organization. 4 Units.
Prerequisites: satisfactory completion of MUS 315 or equivalent
Intensive study of aspects of musical organization: tonal, melodic and rhythmic.

MUS 575. Internship in Music Technology. 4 Units.
Prerequisites: MUS 347, MUS 429, and consent of instructor
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.

MUS 598. Senior Project. 1 Unit.
Prerequisites: senior standing, completion of 300-level applied study requirements, and consent of department. Formerly MUS 993
Independent study with applied music instructor or principal instructor in area of emphasis.

MUS 599. Senior Recital. 1 Unit.
Prerequisites: senior standing, attained 400-level in applied study, and consent of department. Formerly MUS 996
Preparation for recital with applied instructor.

MUS 602. Foundations of Music Education. 4 Units.
History of music education in America including the various music philosophies and national trends that have influenced the current music teaching profession.

MUS 603. Music Learning Theories. 4 Units.
Prerequisites: completion of MUS 315 or equivalent, or consent of instructor
Learning sequences in musical development including an understanding of music aptitude, rhythm and tonal audition, and the development of music literacy.

MUS 604. Advanced Instrumental Music Teaching. 4 Units.
Prerequisites: MUS 603 or consent of instructor
Development of teaching strategies and techniques for band and orchestral instruments.
MUS 628A. Special Projects. 1 Unit.
Prerequisites: graduate standing and consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation.

MUS 628B. Special Projects. 2 Units.
Prerequisites: graduate standing and consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation.

MUS 628C. Special Projects. 3 Units.
Prerequisites: graduate standing and consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation.

MUS 628D. Special Projects. 4 Units.
Prerequisites: graduate standing and consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation.

MUS 990. Music Comprehensive Assessment. 0 Units.
To be taken by seniors during the final quarter of the B.A. program.

MUS 998. Concert Attendance. 0 Units.
Attendance at at least eight Music Department concerts, recitals, and related programs. Required of all music majors.

MUS 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts in Music
Requirements (96 units)
Total units required for graduation: 180

Requirements for the B.A. in Music
Music Theory (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 120</td>
<td>Theory I</td>
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<tr>
<td>MUS 121</td>
<td>Musicianship I</td>
<td>1</td>
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<tr>
<td>MUS 122</td>
<td>Theory II</td>
<td>3</td>
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<tr>
<td>MUS 123</td>
<td>Musicianship II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Theory III</td>
<td>3</td>
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<tr>
<td>MUS 125</td>
<td>Musicianship III</td>
<td>1</td>
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<tr>
<td>MUS 250</td>
<td>Theory IV</td>
<td>3</td>
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<td>MUS 251</td>
<td>Musicianship IV</td>
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<td>MUS 252</td>
<td>Theory V</td>
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<td>MUS 253</td>
<td>Musicianship V</td>
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<td>MUS 254</td>
<td>Theory VI</td>
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Music History (16)

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<tr>
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<tbody>
<tr>
<td>MUS 304</td>
<td>History of Music I</td>
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<tr>
<td>MUS 305</td>
<td>History of Music II</td>
<td>4</td>
</tr>
<tr>
<td>MUS 306</td>
<td>History of Music III</td>
<td>4</td>
</tr>
<tr>
<td>MUS 350</td>
<td>Music of World Cultures</td>
<td>4</td>
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Conducting (2)

<table>
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<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>MUS 210</td>
<td>Conducting</td>
<td>2</td>
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</table>

Additional Requirements (23)

Piano proficiency must be demonstrated by completing one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 222</td>
<td>Class Piano III (with a grade of &quot;B&quot; or better)</td>
<td>1</td>
</tr>
</tbody>
</table>

Successful completion of credit by examination administered by the department.

Nine units chosen from the student’s area of study: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MUS 140-MUS 145 (100-level Applied Study)</td>
<td>4</td>
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<tr>
<td>MUS 240-MUS 246 (200-level Applied Study)</td>
<td>4</td>
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</tr>
<tr>
<td>MUS 340-MUS 349 (300-level Applied Study)</td>
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</table>

Twelve units chosen from: 12

<table>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MUS 200</td>
<td>Large Music Ensemble</td>
<td>3</td>
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<tr>
<td>MUS 380</td>
<td>Chamber Orchestra</td>
<td>3</td>
</tr>
<tr>
<td>MUS 381</td>
<td>Symphonic Band</td>
<td>3</td>
</tr>
<tr>
<td>MUS 385</td>
<td>Concert Choir</td>
<td>3</td>
</tr>
<tr>
<td>MUS 386</td>
<td>Chamber Singers</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

Concert attendance:
Six quarters of MUS 998. Concert Attendance; at least eight Music Department concerts, recitals and related programs must be attended per quarter.

One unit chosen from: 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 598</td>
<td>Senior Project</td>
<td>1</td>
</tr>
<tr>
<td>MUS 599</td>
<td>Senior Recital</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: If student chooses MUS 599 to fulfill the core requirement, MUS 440 level must be reached.

MUS 990 Music Comprehensive Assessment 0

Emphases (31)

Thirty one units chosen from one of the following emphases: 31

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 230</td>
<td>Introduction to Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>MUS 260</td>
<td>Commercial Songwriting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS 406</td>
<td>Orchestration</td>
<td>2</td>
</tr>
<tr>
<td>MUS 414</td>
<td>Commercial Arranging and Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 475</td>
<td>Internship in Commercial Music</td>
<td>2</td>
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</table>

Three units chosen from: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 382H</td>
<td>Chamber Music: Jazz Combo</td>
<td>3</td>
</tr>
<tr>
<td>MUS 391</td>
<td>Jazz Ensemble</td>
<td>3</td>
</tr>
</tbody>
</table>

Bachelor of Arts in Music
Requirements (96 units)
Total units required for graduation: 180

Requirements for the B.A. in Music

Music Theory (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 120</td>
<td>Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 121</td>
<td>Musicianship I</td>
<td>1</td>
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<tr>
<td>MUS 122</td>
<td>Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Musicianship II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 125</td>
<td>Musicianship III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Musicianship IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Theory V</td>
<td>3</td>
</tr>
<tr>
<td>MUS 253</td>
<td>Musicianship V</td>
<td>1</td>
</tr>
<tr>
<td>MUS 254</td>
<td>Theory VI</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>MUS 392</td>
<td>Vocal Jazz</td>
<td></td>
</tr>
<tr>
<td>Or other music ensembles approved by advisor.</td>
<td></td>
<td></td>
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</table>

**Electives**
Fourteen additional units in music approved by advisor. 14

**Total Units**
31

### Music Education Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 201A</td>
<td>Class Strings I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202A</td>
<td>Class Woodwinds I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203A</td>
<td>Class Brass I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 204A</td>
<td>Class Percussion I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 201B</td>
<td>Class Strings II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202B</td>
<td>Class Woodwinds II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203B</td>
<td>Class Brass II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 204B</td>
<td>Class Percussion II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 205A</td>
<td>Class Guitar I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 205B</td>
<td>Class Guitar II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 211A</td>
<td>Diction for Singers I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 211B</td>
<td>Diction for Singers II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 206</td>
<td>Class Voice</td>
<td>1</td>
</tr>
<tr>
<td>MUS 209</td>
<td>Instrumental Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 212</td>
<td>Choral Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 301</td>
<td>Choral Conducting</td>
<td>1</td>
</tr>
<tr>
<td>MUS 303</td>
<td>Instrumental Conducting</td>
<td>1</td>
</tr>
<tr>
<td>MUS 382A-H</td>
<td>Chamber Music: (for a total of 2 units)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 406</td>
<td>Orchestration</td>
<td>2</td>
</tr>
<tr>
<td>MUS 408</td>
<td>Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 410</td>
<td>Music in the Elementary Schools</td>
<td>4</td>
</tr>
<tr>
<td>MUS 411</td>
<td>Teaching Music in Secondary Schools</td>
<td>4</td>
</tr>
<tr>
<td>MUS 535</td>
<td>Computer Studies for Music Teachers</td>
<td>2</td>
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</table>

**Total Units**
31

### Performance/Composition Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 209</td>
<td>Instrumental Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>or MUS 212</td>
<td>Choral Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>or MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 301</td>
<td>Choral Conducting</td>
<td>1</td>
</tr>
<tr>
<td>or MUS 303</td>
<td>Instrumental Conducting</td>
<td>1</td>
</tr>
<tr>
<td>MUS 406</td>
<td>Orchestration</td>
<td>2</td>
</tr>
<tr>
<td>MUS 408</td>
<td>Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 307</td>
<td>Music of 20th and 21st Centuries</td>
<td>4</td>
</tr>
<tr>
<td>MUS 400</td>
<td>Studies in Composers</td>
<td>2</td>
</tr>
<tr>
<td>MUS 402</td>
<td>Studies in Genres</td>
<td>2</td>
</tr>
<tr>
<td>MUS 426</td>
<td>Studies in Music History</td>
<td>2</td>
</tr>
</tbody>
</table>

**Applied Study. Three units chosen from one of the following: 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 440</td>
<td>Upper-Division Voice II (for a total of 3)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 441A-C</td>
<td>Upper-Division Keyboard Instrument II: (for a total of 3)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 442A-F</td>
<td>Upper-Division String Instrument II: (for a total of 3)</td>
<td>3</td>
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</tbody>
</table>

**Total Units**
31

### General Music Studies Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>or MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 416</td>
<td>Advanced Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS 427</td>
<td>Advanced Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 429</td>
<td>Topics in Music Technology</td>
<td>4</td>
</tr>
<tr>
<td>MUS 448</td>
<td>Applied Technology (for a total of 3)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Internship in Music Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Music Electives. Nine units of music courses, subject to approval of advisor. 9**

**Electives. Eight units chosen from courses offered in the College of Arts and Letters which may include music courses, subject to approval of advisor. 8**

**Total Units**
31

### Music Technology Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 416</td>
<td>Advanced Computer and Electronic Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS 427</td>
<td>Advanced Studio Recording Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUS 429</td>
<td>Topics in Music Technology</td>
<td>4</td>
</tr>
<tr>
<td>MUS 448</td>
<td>Applied Technology (for a total of 3)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Internship in Music Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Music Electives. Four units chosen from music courses, with approval of advisor. 4**

**Total Units**
31

### Musical Theatre Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 131</td>
<td>Makeup for Stage and Screen</td>
<td>3</td>
</tr>
<tr>
<td>TA 251</td>
<td>Acting I: Games and Exercises</td>
<td>3</td>
</tr>
<tr>
<td>TA 252</td>
<td>Acting II: Creating a Role</td>
<td>3</td>
</tr>
</tbody>
</table>

**Six units chosen from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 200A</td>
<td>Studies in Dance: Jazz</td>
<td>3</td>
</tr>
<tr>
<td>DAN 200B</td>
<td>Studies in Dance: Modern</td>
<td>3</td>
</tr>
<tr>
<td>DAN 200C</td>
<td>Studies in Dance: Tap</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**
31
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 200D</td>
<td>Studies in Dance: Ballet</td>
</tr>
<tr>
<td>DAN 300A</td>
<td>Dance Techniques: Jazz</td>
</tr>
<tr>
<td>DAN 300B</td>
<td>Dance Techniques: Modern</td>
</tr>
<tr>
<td>DAN 300C</td>
<td>Dance Techniques: Tap</td>
</tr>
<tr>
<td>DAN 300D</td>
<td>Dance Techniques: Ballet</td>
</tr>
<tr>
<td>DAN 300E</td>
<td>Dance Techniques: Musical Theatre</td>
</tr>
<tr>
<td>MUS 387</td>
<td>Opera Theatre I (for a total of 2)</td>
</tr>
<tr>
<td>TA 320A</td>
<td>Performance Practicum: Main Stage (when production is a musical)</td>
</tr>
<tr>
<td>or MUS 302</td>
<td>Music Theatre Production</td>
</tr>
</tbody>
</table>

Four units chosen from:
- MUS 302  Music Theatre Production
- MUS 387  Opera Theatre I
- TA 320A  Performance Practicum: Main Stage
- TA 320B  Performance Practicum: Imagination Players
- TA 320C  Performance Practicum: Touring Theatre
- TA 320E  Performance Practicum: Dance Performance
- TA 320F  Performance Practicum: Dance Performance
- MUS 375  Music Theatre Internship
- MUS 440  Upper-Division Voice II (for a total of 3)

Electives. Three units of music, theatre arts, or dance courses with approval of advisor.

Total Units 31

### Ethnomusicology Emphasis (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
</tr>
<tr>
<td>MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
</tr>
</tbody>
</table>

Four units chosen from:
- MUS 307  Music of 20th and 21st Centuries
- MUS 308  Women in Music
- MUS 400  Studies in Composers
- MUS 401  History of Musical Theatre
- MUS 402  Studies in Genres
- MUS 426  Studies in Music History

Eight units chosen from:
- MUS 351  Latin American Music
- MUS 352  African American Music
- MUS 360  Music in the United States
- MUS 510  Special Topics in Music
- MUS 528C Special Projects

Electives. Eight units of upper-division anthropology courses, subject to approval of advisor.

Total Units 31

### Minor in Jazz Studies

#### Requirements (28 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Fundamentals of Music Theory &amp; MUS 101 Basic Musicianship</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Theory I &amp; MUS 121 Musicianship I</td>
</tr>
<tr>
<td>MUS 122</td>
<td>Theory II &amp; MUS 123 Musicianship II</td>
</tr>
<tr>
<td>MUS 220</td>
<td>Class Piano I</td>
</tr>
<tr>
<td>MUS 221</td>
<td>Class Piano II</td>
</tr>
<tr>
<td>MUS 230</td>
<td>Introduction to Jazz Improvisation</td>
</tr>
<tr>
<td>MUS 309</td>
<td>Jazz History in America and African-American Culture</td>
</tr>
<tr>
<td>MUS 330</td>
<td>Advanced Jazz Improvisation</td>
</tr>
</tbody>
</table>

Six units chosen from:
- MUS 382H Chamber Music: Jazz Combo
- MUS 391  Jazz Ensemble
- MUS 392  Vocal Jazz

Total Units 28

### Minor in Music

#### Requirements (28 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Fundamentals of Music Theory</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Basic Musicianship</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Theory I &amp; MUS 121 Musicianship I</td>
</tr>
<tr>
<td>MUS 122</td>
<td>Theory II &amp; MUS 123 Musicianship II</td>
</tr>
<tr>
<td>MUS 180</td>
<td>Studies in Music</td>
</tr>
</tbody>
</table>

Two units chosen from:
- MUS 205A Class Guitar I
- MUS 205B Class Guitar II

### Minor in Music History Emphasis (31 units)

Eight units chosen from:
- MUS 307  Music of 20th and 21st Centuries
- MUS 308  Women in Music
- MUS 400  Studies in Composers
- MUS 402  Studies in Genres
- MUS 426  Studies in Music History

Eight units chosen from:
- MUS 351  Latin American Music

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

Minor in Jazz Studies

Requirements (28 units)

Requirements for a minor in Jazz Studies

MUS 100 Fundamentals of Music Theory & MUS 101 Basic Musicianship 4
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 220 Class Piano I 1
MUS 221 Class Piano II 1
MUS 230 Introduction to Jazz Improvisation 2
MUS 309 Jazz History in America and African-American Culture 4
MUS 330 Advanced Jazz Improvisation 2

Six units chosen from:
- MUS 382H Chamber Music: Jazz Combo
- MUS 391 Jazz Ensemble
- MUS 392 Vocal Jazz

Total Units 28

### Minor in Music

Requirements (28 units)

Requirements for a minor in Music

MUS 100 Fundamentals of Music Theory 3
MUS 101 Basic Musicianship 1
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 180 Studies in Music 4

Two units chosen from:
- MUS 205A Class Guitar I
- MUS 205B Class Guitar II

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

Minor in Jazz Studies

Requirements (28 units)

Requirements for a minor in Jazz Studies

MUS 100 Fundamentals of Music Theory & MUS 101 Basic Musicianship 4
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 220 Class Piano I 1
MUS 221 Class Piano II 1
MUS 230 Introduction to Jazz Improvisation 2
MUS 309 Jazz History in America and African-American Culture 4
MUS 330 Advanced Jazz Improvisation 2

Six units chosen from:
- MUS 382H Chamber Music: Jazz Combo
- MUS 391 Jazz Ensemble
- MUS 392 Vocal Jazz

Total Units 28

### Minor in Music

Requirements (28 units)

Requirements for a minor in Music

MUS 100 Fundamentals of Music Theory 3
MUS 101 Basic Musicianship 1
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 180 Studies in Music 4

Two units chosen from:
- MUS 205A Class Guitar I
- MUS 205B Class Guitar II

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

Minor in Jazz Studies

Requirements (28 units)

Requirements for a minor in Jazz Studies

MUS 100 Fundamentals of Music Theory & MUS 101 Basic Musicianship 4
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 220 Class Piano I 1
MUS 221 Class Piano II 1
MUS 230 Introduction to Jazz Improvisation 2
MUS 309 Jazz History in America and African-American Culture 4
MUS 330 Advanced Jazz Improvisation 2

Six units chosen from:
- MUS 382H Chamber Music: Jazz Combo
- MUS 391 Jazz Ensemble
- MUS 392 Vocal Jazz

Total Units 28

### Minor in Music

Requirements (28 units)

Requirements for a minor in Music

MUS 100 Fundamentals of Music Theory 3
MUS 101 Basic Musicianship 1
MUS 120 Theory I & MUS 121 Musicianship I 4
MUS 122 Theory II & MUS 123 Musicianship II 4
MUS 180 Studies in Music 4

Two units chosen from:
- MUS 205A Class Guitar I
- MUS 205B Class Guitar II

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 206</td>
<td>Class Voice</td>
</tr>
<tr>
<td>MUS 211A</td>
<td>Diction for Singers I</td>
</tr>
<tr>
<td>MUS 211B</td>
<td>Diction for Singers II</td>
</tr>
<tr>
<td>MUS 220</td>
<td>Class Piano I</td>
</tr>
<tr>
<td>MUS 221</td>
<td>Class Piano II</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 304</td>
<td>History of Music I</td>
</tr>
<tr>
<td>MUS 305</td>
<td>History of Music II</td>
</tr>
<tr>
<td>MUS 306</td>
<td>History of Music III</td>
</tr>
<tr>
<td>MUS 350</td>
<td>Music of World Cultures</td>
</tr>
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<td>MUS 351</td>
<td>Latin American Music</td>
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Two units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 200</td>
<td>Large Music Ensemble</td>
</tr>
<tr>
<td>MUS 380</td>
<td>Chamber Orchestra</td>
</tr>
<tr>
<td>MUS 381</td>
<td>Symphonic Band</td>
</tr>
<tr>
<td>MUS 382A-H</td>
<td>Chamber Music:</td>
</tr>
<tr>
<td>MUS 385</td>
<td>Concert Choir</td>
</tr>
<tr>
<td>MUS 386</td>
<td>Chamber Singers</td>
</tr>
</tbody>
</table>

Four units in music courses at the upper-division level.

Total Units 28

**Minor in Recording Arts**

Requirements (28 units)

**Requirements for a minor in Recording Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Fundamentals of Music Theory</td>
</tr>
<tr>
<td>MUS 101</td>
<td>and Basic Musicianship</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Theory I</td>
</tr>
<tr>
<td>MUS 121</td>
<td>and Musicianship I</td>
</tr>
<tr>
<td>MUS 122</td>
<td>Theory II</td>
</tr>
<tr>
<td>MUS 123</td>
<td>and Musicianship II</td>
</tr>
</tbody>
</table>

Some or all of the above music theory courses can be waived based on departmental placement testing. Contact the Music Department chair for more details. Waived coursework must be replaced with other music courses of the same number of units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 266</td>
<td>Introduction to Computer and Electronic Music</td>
</tr>
<tr>
<td>MUS 267</td>
<td>Introduction to Studio Recording Techniques</td>
</tr>
<tr>
<td>MUS 416</td>
<td>Advanced Computer and Electronic Music</td>
</tr>
<tr>
<td>MUS 427</td>
<td>Advanced Studio Recording Techniques</td>
</tr>
</tbody>
</table>

Total Units 28
Department of Philosophy

Bachelor of Arts

Philosophy

Minor

• Law and Philosophy
• Philosophical Logic
• Philosophy
• Philosophy, Policy, and Economics

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.

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.

Current Faculty

B. Jill Buroker, Professor
B.A. 1967, DePauw University
M.A. 1968, Ph.D. 1975, University of Chicago

Matthew Davidson, Professor, Chair
B.A. 1994, University of Illinois
M.A. 1997, Ph.D. 2000, University of Wisconsin

Beverly Gallo, Lecturer
B.A. 1971, M.A. 1984, San Jose State University
Ph.D. 1989, University of California, Riverside

John Mumma, Assistant Professor
Ph.D., Carnegie Mellon University, 2006

Chris Naticchia, Professor
B.A. 1985, Cornell University
M.A. 1987, New York University, New York
Ph.D. 1995, University of Virginia, Charlottesville

Tony D. Roy, Professor
B.A. 1979, M.A. 1988, University of California, San Diego
Ph.D. 1991, University of California, Davis

Emeriti

Susan M. Finsen, Professor
Paul J. Johnson, Professor
Thomas E. Moody, Associate Professor

Undergraduate Degree

Bachelor of Arts

• Philosophy (p. 263)

Minors

• Law and Philosophy (p. 264)
• Philosophical Logic (p. 264)
• Philosophy (p. 265)
• Philosophy, Policy, and Economics (p. 265)

Courses

PHIL 101. Moral Choices in Life. 2 Units.
(GE=E2)
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.

PHIL 105. Critical Thinking Through Argument Analysis. 4 Units.
(GE=A4)
Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each students skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues.

PHIL 190. Introduction to Philosophical Issues. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent
(GE=C4)
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.
PHIL 191. Introduction to Ethics. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C4)
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.

PHIL 192. Introduction to Philosophy of Religion. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C4)
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.

PHIL 193. Introduction to Eastern Philosophy. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C4)
Introduction to the ways in which Buddhism, Hinduism, Taoism and Confucianism view human life and reality.

PHIL 194. Introduction to Knowledge and Reality. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement or equivalent (GE=C4)
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?.

PHIL 200. Critical Thinking Through Symbolic Logic. 4 Units.
Prerequisites: PHIL 200 or consent of instructor
Introduction to logic and its application to everyday reasoning. Emphasis on formal methods and modern symbolic logic. Formerly PHIL 205.

PHIL 206. Critical and Analytic Reasoning. 4 Units.
Prerequisites: satisfaction of the General Education Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 300. Predicate Logic. 4 Units.
Prerequisites: PHIL 200 or consent of instructor
Introduction to the standard predicate calculus. Some metatheory. This course requires some basic mathematical or logical background.

PHIL 306. Inductive Logic. 4 Units.
Prerequisites: PHIL 200 and satisfaction of the GE Philosophy (C4) requirement
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.

PHIL 308. Alternative Logics. 4 Units.
Prerequisites: PHIL 200 or consent of instructor
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.

PHIL 310. Introduction to Philosophical Methodology. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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, only four units may count toward the major.

PHIL 311. Ancient Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Introduction to the origin of Western philosophy, as represented in the works of the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics and Mystics.

PHIL 312. Medieval Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Study of philosophical thought from the Neoplatonists up to Descartes.

PHIL 313. History of Modern Philosophy: Knowledge and Reality. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Major philosophical developments in Western philosophy from Descartes through Kant, focusing on the nature of knowledge and reality. Formerly PHIL 318.

PHIL 314. History of Modern Philosophy: Ethics and Politics. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Major philosophical developments in Western philosophy from Machiavelli to Mill, focusing on ethics and political theory. Formerly PHIL 319.

PHIL 315. History of Modern Philosophy: Knowledge and Reality II. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.
PHIL 320. Philosophy of Education. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 350. Ethics. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
The nature of the meaningful life and its relation to concepts of right and wrong explored through various moral theories.

PHIL 351. Topics in Moral and Political Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Consideration of select problems in moral and political theory. May be repeated for credit as topics change.

PHIL 352. Metaethics. 4 Units.
Study of the metaphysical, epistemological, and semantic underpinnings of moral claims and judgments.

PHIL 353. Topics in Applied Ethics. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 355. Contemporary Ethical Issues. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 359. Philosophy and Economics. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 361A. Social and Political Philosophy: Classical Political Theories. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 362. Philosophy of Law. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
A study of philosophical problems raised by the law, such as the obligation to obey the law; concepts of justice; and justifications for legal rights.

PHIL 363. Jurisprudence. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Addressing the classic question, “What is law?” and considers whether the criteria for identifying valid legal rules in a legal system refer exclusively to their origin or pedigree or whether they must also satisfy valid moral principles.

PHIL 364. Philosophy of Race and Ethnicity. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements (GE=G2)
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.

PHIL 367. Gender and Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements (GE=G2)
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.

PHIL 372. Philosophy of Religion. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Problems concerned with the existence and attributes of God or gods, the significance of religious experience and its varieties, and the rationality of faith.

PHIL 375. Non-Western Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Study of various philosophical issues that arise within non-Western world views such as Buddhism, Hinduism, Taoism, and Islam.

PHIL 380. Metaphysics. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.
PHIL 381. Philosophy of Logic. 4 Units.
Prerequisites: PHIL 200 and satisfaction of the Philosophy (C4) requirement
Philosophical issues raised by logic, such as the nature of logical truth and logical consequences, the relation between logic and the world, and justifications for logical systems. Formerly PHIL 382 and a topic under PHIL 485.

PHIL 383. Philosophy of Mathematics. 4 Units.
Prerequisites: MATH 110 or equivalent, PHIL 200, and satisfaction of the Philosophy (C4) requirement
Philosophical issues raised by mathematics, such as the nature of mathematical truth, the relation between mathematics and the world, and justifications for mathematical systems. Formerly a topic under PHIL 485, formerly PHIL 382.

PHIL 384A. Philosophy of Mind. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 384B. Philosophy of Mind. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 385. Theory of Knowledge. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 386. Philosophy of Science. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
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.

PHIL 387. Philosophy of Language. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Inquiry into the syntactic, semantic and pragmatic dimensions of language, focusing on different theories of these components, and the philosophical implications of these theories.

PHIL 390. Topics in Philosophy. 4 Units.
Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements
Study of a specially-selected figure, movement, problem, or theory in philosophy. May be repeated for credit as topics change.

PHIL 381. Philosophy of Logic. 4 Units.
Prerequisites: PHIL 200 and satisfaction of the Philosophy (C4) requirement
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.

PHIL 385. Advanced Issues in Logic. 4 Units.
Prerequisites: PHIL 300 or consent of instructor
Discussions 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.

PHIL 391. Advanced Issues in History of Philosophy. 4 Units.
Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement
An intensive study of one or more philosophical figures. May be repeated for credit as topics change.

PHIL 392. Advanced Issues in Philosophy of Religion. 4 Units.
Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement
Intensive study of topics in philosophy of religion. May be repeated for credit as topics change.

PHIL 393. Advanced Issues in Philosophy of Science. 4 Units.
Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement
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.

PHIL 394. Advanced Issues in Value Theory. 4 Units.
Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement
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.

PHIL 395. Advanced Issues in History of Philosophy. 4 Units.
Prerequisites: at least two 300-level philosophy courses and satisfaction of the GE upper-division writing requirement
An intensive study of one or more philosophical figures. May be repeated for credit as topics change.
PHIL 575C. Internship in Philosophy. 3 Units.
Prerequisites: consent of instructor
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.

PHIL 575D. Internship in Philosophy. 4 Units.
Prerequisites: consent of instructor
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.

PHIL 575E. Internship in Philosophy. 5 Units.
Prerequisites: consent of instructor
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.

PHIL 595B. Independent Study. 2 Units.
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. 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.

PHIL 595C. Independent Study. 3 Units.
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. 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.

PHIL 595D. Independent Study. 4 Units.
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. 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.

Bachelor of Arts in Philosophy
Requirements (57 units)
Total units required for graduation: 180

Requirements for the B.A. in Philosophy
Upper-division requirements (57 units)

<table>
<thead>
<tr>
<th>History of Philosophy (12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 311</td>
</tr>
<tr>
<td>PHIL 313</td>
</tr>
<tr>
<td>PHIL 314</td>
</tr>
</tbody>
</table>

Logic (4)
- PHIL 300 Predicate Logic | 4 |

Metaphysics/Language (4)
- PHIL 380 Metaphysics | 4 |
- or PHIL 387 Philosophy of Language |

Knowledge/Science (4)
- PHIL 385 Theory of Knowledge | 4 |
- or PHIL 386 Philosophy of Science |

Value Theory (4)
Four units chosen from:
- PHIL 350 Ethics |
- PHIL 361A Social and Political Philosophy: Classical Political Theories |
- PHIL 361B Social and Political Philosophy: Themes in Social and Political Philosophy |
- PHIL 362 Philosophy of Law |
- PHIL 363 Jurisprudence |

Advanced Issues (4)
Four units chosen from:
- PHIL 400 Advanced Issues in Logic |
- PHIL 410 Advanced Issues in History of Philosophy |
- PHIL 460 Advanced Issues in Value Theory |
- PHIL 472 Advanced Issues in Philosophy of Religion |
- PHIL 485 Advanced Issues in Metaphysics and Knowledge |

Senior Project (25)
- PHIL 516 Senior Project | 1 |

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.

Total Units | 57 |

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 Introduction to Ethics 4
- PHIL 350 Ethics 4
- PHIL 353 Topics in Applied Ethics 4
- PHIL 355 Contemporary Ethical Issues 4
- PHIL 460 Advanced Issues in Value Theory 4

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 Introduction to Ethics 4
- PHIL 350 Ethics 4
- PHIL 359 Philosophy and Economics 4
- PHIL 460 Advanced Issues in Value Theory 4

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 Predicate Logic 4
- PHIL 384A Philosophy of Mind 4
- PHIL 384B Philosophy of Mind 4
- PHIL 400 Advanced Issues in Logic 4
- PHIL 485 Advanced Issues in Metaphysics and Knowledge 4

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 among

- PHIL 350 Ethics 4
- PHIL 351 Topics in Moral and Political Philosophy 4
- PHIL 353 Topics in Applied Ethics 4
- PHIL 361A Social and Political Philosophy: Classical Political Theories 4
- PHIL 361B Social and Political Philosophy: Themes in Social and Political Philosophy 4
- PHIL 362 Philosophy of Law 4
- PHIL 363 Jurisprudence 4
- PHIL 460 Advanced Issues in Value Theory 4
- PHIL 575B Internship in Philosophy 4
- PHIL 595B Independent Study 4

Total Units 28

The Law and Philosophy minor is open to students in any major. However, only core requirements PHIL 200 and PHIL 350 or PHIL 361A or PHIL 361B, will count toward satisfaction of the philosophy major.

Students who fulfill the GE Critical Thinking (A4) requirement with PHIL 200 will be credited with satisfying that core requirement for the minor.

With department approval, students may count two units of PHIL 575 and two units of PHIL 595 toward the minor (students may count two units of PHIL 575 toward the minor through participation in a judicial internship, which the department offers in conjunction with the San Bernardino County courts).

Minor in Philosophical Logic

Requirements (24 units)

Requirements for a minor in Philosophical Logic

Core requirements (16)

- PHIL 200 Critical Thinking Through Symbolic Logic 4
- PHIL 350 Predicate Logic 4
- PHIL 351 Topics in Moral and Political Philosophy 4
- PHIL 352 Philosophy of Law 4
- PHIL 353 Topics in Applied Ethics 4
- PHIL 355 Contemporary Ethical Issues 4
- PHIL 361A Social and Political Philosophy: Classical Political Theories 4
- PHIL 361B Social and Political Philosophy: Themes in Social and Political Philosophy 4
- PHIL 362 Philosophy of Law 4
- PHIL 363 Jurisprudence 4
- PHIL 460 Advanced Issues in Value Theory 4
- PHIL 575B Internship in Philosophy 4
- PHIL 595B Independent Study 4

Total Units 28

Minor in Law and Philosophy

Requirements (28 units)

Requirements for a minor in Law and Philosophy

Core requirements (12)

- PHIL 200 Critical Thinking Through Symbolic Logic 4
- PHIL 350 Ethics 4
- PHIL 351 Topics in Moral and Political Philosophy 4
- PHIL 352 Philosophy of Law 4
- PHIL 353 Topics in Applied Ethics 4
- PHIL 355 Contemporary Ethical Issues 4
- PHIL 361A Social and Political Philosophy: Classical Political Theories 4
- PHIL 361B Social and Political Philosophy: Themes in Social and Political Philosophy 4
- PHIL 362 Philosophy of Law 4
- PHIL 363 Jurisprudence 4
- PHIL 460 Advanced Issues in Value Theory 4

Electives (16)

Sixteen units chosen from (if not taken above): 16

- PHIL 300 Predicate Logic 4
- PHIL 314 History of Modern Philosophy: Ethics and Politics 4
- PHIL 350 Ethics 4
- PHIL 351 Topics in Moral and Political Philosophy 4
- PHIL 353 Topics in Applied Ethics 4
- PHIL 355 Contemporary Ethical Issues 4
- PHIL 361A Social and Political Philosophy: Classical Political Theories 4
- PHIL 361B Social and Political Philosophy: Themes in Social and Political Philosophy 4
- PHIL 362 Philosophy of Law 4
- PHIL 363 Jurisprudence 4
- PHIL 460 Advanced Issues in Value Theory 4
- PHIL 575B Internship in Philosophy 4
- PHIL 595B Independent Study 4

Total Units 28
Minor in Philosophy

Requirements (32 units)

Requirements for a minor in Philosophy

History of Philosophy (8)
Eight units chosen from:

Philosophy (8-12)
Select 8-12 units of the following:

Philosophy (8-12)

Select 8-12 units of the following:

Metaphysics/Knowledge (8)
Eight units chosen from:

Philosophy (8-12)
Select 8-12 units of the following:

Value theory (16)
Four units chosen from:

Economics (8-12)
Select 8-12 units of the following:

Political Science (8-12)
Select 8-12 units of the following:

Total Units
24-36

Minor in Philosophy, Policy, and Economics

Requirements (24-36 units)

Requirements for a minor in Philosophy, Policy and Economics

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.

Philosophy (8-12)
Select 8-12 units of the following:

Philosophy (8-12)
Select 8-12 units of the following:

Economics (8-12)
Select 8-12 units of the following:

Political Science (8-12)
Select 8-12 units of the following:

Total Units
24-36
Department of Theatre Arts

Performing Arts Building, Room 111
(909) 537-5876 Department of Theatre Arts website (http://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
- Script Writing
- Theatre Arts

Certificate Program

- Puppetry
- Theatre for Youth

Master of Arts

- Theatre Arts

The theatre arts major is a practical liberal arts degree. The broad range of subjects studied enable the theatre student to qualify for a wide variety of fields. Theatre majors are found in the professional areas of live theatre, film, television, corporate and media training, radio, public relations, advertising, business law, teaching, and higher education.

The diverse nature of theatre explores expressions of human interactions and conflict. This study develops intellectual awareness about the human condition. It helps develop skills for working as a theatre artist and as an individual who understands team work.

Liberal studies majors will benefit from a departmental philosophy that good theatre training is also excellent teacher training. Many courses in the department have no prerequisites, and they will help liberal studies students to prepare for careers in teaching.

The Theatre Arts Department produces five major plays during the academic year. The department also presents several student directed/designized 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 (p. 281).

Current Faculty

Carol Damgen, Lecturer
B.A. 2003, M.A. 2006, California State University, San Bernardino

Glen Dunzweiler, Assistant Professor
M.F.A, University of Missouri-Kansas City, 2003

Kathryn Ervin, Professor, Chair
B.F.A. 1978, Wayne State University
M.F.A. 1980, Illinois State University

Andre Harrington, Associate Professor
B.S. 1986, University of Maryland, College Park
M.F.A. 2005, The University of Iowa, Iowa City

Allen Menton, Assistant Professor
Ph.D., University of California, Los Angeles, 2009

Margaret A. Perry, Professor, Chair
B.A. 1975, M.F.A. 1985, San Diego State University

Thomas E. Provenzano, Professor
B.A. 1978, University of California, Berkeley
M.F.A. 1992, University of California, Los Angeles

Johanna L. Smith, Professor
B.A. 1994, Miami University, Ohio
M.F.A. 1998, Arizona State University

Terry D. Smith, Professor, Chair
B.F.A. 1974, Virginia Commonwealth University, Richmond
M.A. 1993, California State University, Northridge
Ph.D. 1996, University of Washington, Seattle

Emeriti

Lee A. Lyons, Professor

Amanda Sue Rudisill, Professor

William L. Slout, Professor

Undergraduate Degrees

Bachelor of Arts

- Theatre Arts (p. 277) with emphases in:
  - Acting
  - Dance
  - Design/Technical
  - Drama Education
  - Musical Theatre
Graduate Degree

Master of Arts

- Theatre Arts (p. 278)

Minors

- Film Studies (p. 214) (The Department of Theatre Arts participates in the interdisciplinary minor in Film Studies.)
- Script Writing (p. 215)
- Theatre Arts (p. 279)

Certificate Programs

- Puppetry (p. 281)
- Theatre for Youth (p. 281)

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 (p. 232) (lower-division requirements and upper-division requirements 1-7), as well as the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COMM 245</td>
<td>Introduction to TV and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>ENG 312</td>
<td>Theories of Language Acquisition and Learning</td>
<td>4</td>
</tr>
<tr>
<td>or ENG 420</td>
<td>English Grammar I</td>
<td></td>
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<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
<td>4</td>
</tr>
<tr>
<td>or HUM 306</td>
<td>Expository Writing for the Humanities</td>
<td></td>
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</tbody>
</table>

Six units chosen from:

- TA 131 Makeup for Stage and Screen | 3
- TA 231 Sound for Stage and Screen | 3
- TA 232 Lighting for Stage and Screen | 3
- TA 233 Costume Construction | 3
- TA 239 Stagecraft | 3
- TA 251 Acting I: Games and Exercises | 3
- TA 252 Acting II: Creating a Role | 3
- TA 351 Acting III: Scene Study | 3
- TA 346 Directing I | 3
- TA 581 Theatre in the Secondary Classroom | 4

Total Units: 34

Note: Completing the requirements of the teaching credential in English with a concentration in Theatre Arts does NOT in itself satisfy the requirements for the major in either English or Theatre Arts.

Dance Courses

DAN 200A. Studies in Dance: Jazz. 2 Units.
Prerequisites: KINE 150F or consent of instructor
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.

DAN 200B. Studies in Dance: Modern. 2 Units.
Prerequisites: KINE 150G or consent of instructor
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.

DAN 200C. Studies in Dance: Tap. 2 Units.
Prerequisites: KINE 150H or consent of instructor
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.

DAN 200D. Studies in Dance: Ballet. 2 Units.
Prerequisites: KINE 150D or consent of instructor
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.

DAN 300A. Dance Techniques: Jazz. 2 Units.
Prerequisites: DAN 200A or equivalent experience and consent of instructor
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.

DAN 300B. Dance Techniques: Modern. 2 Units.
Prerequisites: DAN 200B or equivalent experience and consent of instructor
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.

DAN 300C. Dance Techniques: Tap. 2 Units.
Prerequisites: DAN 200C or equivalent experience and consent of instructor
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.

DAN 300D. Dance Techniques: Ballet. 2 Units.
Prerequisites: DAN 200D or equivalent experience and consent of instructor
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.

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 (p. 511) credential program, contact the Credentials Office, CE-102.
DAN 300E. Dance Techniques: Musical Theatre. 2 Units.
Prerequisites: DAN 200 or equivalent experience and consent of instructor
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.

DAN 310A. World Dance Traditions: African. 2 Units.
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.

DAN 310B. World Dance Traditions: South and Central American. 2 Units.
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.

DAN 310C. World Dance Traditions: North American. 2 Units.
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.

DAN 310D. World Dance Traditions: Asian. 2 Units.
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.

DAN 310E. World Dance Traditions: Mediterranean. 2 Units.
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.

DAN 355. Dance Notation. 3 Units.
Prerequisites: six units of DAN 300 or consent of instructor
Study and application of written notation for the analysis, reading and
preservation of dance. One hour lecture and four hours laboratory.

DAN 360. Dance History. 4 Units.
Chronological study of major styles and personalities in dance.

DAN 450. Choreography. 3 Units.
Prerequisites: six units of DAN 300 or consent of instructor
Study and application of dance composition. May be repeated for credit.
Formerly DAN 350. One hour lecture and four hours laboratory.

DAN 481. Creative Dance in the Classroom. 4 Units.
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.

DAN 580. Advanced Creative Dance Methods. 4 Units.
Prerequisites: DAN 481
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.

Theatre Arts Courses

TA 130. Computer Applications for Technical Theatre. 1 Unit.
Introduction to computer programs and techniques with applications for
theatrical design and production. May be repeated for credit.

TA 131. Makeup for Stage and Screen. 3 Units.
Theory and application of makeup for theatre, television and film.

TA 160. World Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1)
requirement or equivalent
Selected readings of dramatic literature (in translation) from the 5th
century B.C. to the present. (Offered as ENG 160 and TA 160. Students
may not receive credit for both.).

TA 212. Oral Interpretation of Literature. 4 Units.
(General Education C2)
Literary and aesthetic analysis of poetry, prose or drama through
performance techniques of oral interpretation.

TA 221. Theatre Laboratory: Performance. 1 Unit.
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.

TA 223. Audition/Interview Preparation. 1 Unit.
Students select and prepare material for acting auditions and technical
interviews, both for inter-college competition and professional theatre/film
work. Two hours activity.

TA 225. Festival Production. 1 Unit.
Remounting and reconfiguring University production for touring to national
and international festivals and venues. Two hours activity.

TA 231. Sound for Stage and Screen. 3 Units.
Basic design theories of stage and screen sound, production techniques,
instrumentation and control equipment.

TA 232. Lighting for Stage and Screen. 3 Units.
Basic electrical theory of stage lighting, production techniques,
instrumentation and control equipment.
TA 233. Costume Construction. 3 Units.
Costume techniques including basic pattern drafting, cutting, fitting and construction.

TA 235. Fundamentals of Stage Design. 4 Units.
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.

TA 239. Stagecraft. 3 Units.
Introduction to the theory and practice of scenery and prop construction including the use of tools, materials, techniques and drafting required in execution of designs.

TA 240. Improvisation. 3 Units.
A beginning course in improvisational techniques for the actor and for those who will use drama as an educational tool.

TA 245. Beginning Theatre Movement. 2 Units.
Beginning theory and fundamentals of specialized stage movement.

TA 251. Acting I: Games and Exercises. 3 Units.
Foundation training for actors through theatre games, improvisation and exercises for developing expressive freedom, creativity, relaxation and concentration.

TA 252. Acting II: Creating a Role. 3 Units.
Prerequisites: TA 251
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.

TA 253. Voice for the Stage. 2 Units.
Theory and practice of vocal techniques for the actor, including voice production, diction, flexibility, projection, and voice care.

TA 260. Introduction to Theatre. 4 Units.
(GE=C1)
Introduction to the art of Theatre, including the nature of theatrical presentation and the contributions of the playwright, actor, director, designer, technician and audience to the process of theatremaking. Students will authentically experience this process as production crew or audience members.

TA 302A. Analysis of Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
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.)

TA 302B. Analysis and Writing of Drama. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement
Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as ENG 302B. Students may not receive credit for both.)

TA 320A. Performance Practicum: Main Stage. 2 Units.
Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children’s literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

TA 320B. Performance Practicum: Imagination Players. 2 Units.
Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children’s literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

TA 320C. Performance Practicum: Touring Theatre. 2 Units.
Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children’s literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.
TA 320E. Performance Practicum: Dance Performance. 2 Units.
Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children's literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

TA 320F. Performance Practicum: Dance Performance. 2 Units.
Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children's literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

TA 320G. Performance Practicum: Puppetry Performance. 2 Units.
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.

TA 321A. Technical Practicum. 1 Unit.
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. Formerly TA 320D. May be repeated for credit.

TA 321B. Technical Practicum. 2 Units.
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. Formerly TA 320D. May be repeated for credit.

TA 331. Theatre Management. 4 Units.
Prerequisites: junior standing or consent of instructor
Survey of fine arts management principles as they apply to theatre.

TA 332. Stage Lighting Design. 3 Units.
Prerequisites: TA 232 and TA 235
Lighting design theories and emerging technologies. Light plots for various theatrical styles will be developed. May be repeated for credit.

TA 333. Stage Sound Design. 3 Units.
Prerequisites: TA 231 and 235 or consent of instructor
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.

TA 334. Theatrecrafts. 3 Units.
Prerequisites: TA 235 or consent of instructor
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.

TA 337. Design: Costume Design. 3 Units.
Prerequisites: TA 233 and 235 or consent of instructor
Advanced projects in the design of costumes with an emphasis on rendering techniques and stylization. May be repeated for credit.

TA 338. Design: Scene Design. 3 Units.
Prerequisites: TA 235 and 239 or consent of instructor
Advanced projects in scene design, using both renderings and models. Concentration on an exploration of design styles. May be repeated for credit.

TA 340. Singing for Musical Theatre. 2 Units.
Solo and choral singing from the American Musical Theatre canon.

TA 345. Advanced Voice and Movement. 2 Units.
Prerequisites: TA 245 and 253 or consent of instructor
Advanced theory and practice of voice and movement techniques for the actor.

TA 346. Directing I. 3 Units.
Prerequisites: TA 235 and TA 252 or consent of instructor
Fundamentals of play directing through theory and practice.

TA 347. Playwriting. 4 Units.
Prerequisites: one course from ENG 302A, ENG 302B, TA 302A, TA 302B; or consent of instructor
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. Students may not receive credit for both.).
TA 351. Acting III: Scene Study. 3 Units.
Prerequisites: TA 252
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.

TA 352. Acting IV: Modern Repertory. 3 Units.
Prerequisites: TA 351
Continued scene study with an emphasis on plays in the modern classical repertory (for example, Ibsen, Chekhov, Shaw). May be repeated once for credit.

TA 353. Acting V: Styles of Acting. 3 Units.
Prerequisites: TA 351
Studies and performance of selected styles in theatre from classical times to the nineteenth century. May be repeated once for credit.

TA 354. Acting VI: Acting Shakespeare. 3 Units.
Prerequisites: TA 351
Concentrated study on performing Shakespeare, with emphasis on voice, movement, and textual meaning. May be repeated once for credit.

TA 355. Acting VII: Acting Musicals. 3 Units.
Prerequisites: TA 351
Concentrated study on performing musical theatre, with an emphasis on voice, dance and character development. May be repeated once for credit.

TA 356. Puppetry. 3 Units.
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.

TA 357. Acting for the Camera. 3 Units.
Prerequisites: TA 351 or TA 385
Study and application of acting techniques unique to film and video. May be repeated for credit.

TA 358. Puppetry for the Camera. 3 Units.
Prerequisites: TA 356 or 486
Study and application of puppeteering techniques unique to film and video. Six hours activity.

TA 361. Theatre History I: Origins Through Medieval. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

TA 362. Theatre History II: Renaissance Through Eighteenth Century. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

TA 363. Theatre History III: Nineteenth Century to the Present. 4 Units.
Prerequisites: junior standing or consent of instructor
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.

TA 385. Acting for Non-Majors. 4 Units.
Introduction to acting through exercises, improvisations and scene study. Not open to theatre arts majors.

TA 401. History of Musical Theatre. 4 Units.
History of musical theatre literature and production. Also offered as MUS 401; students may not receive credit for both.

TA 423. Studies in Dramatic Literature. 2 Units.
Intensive study of a selected topic in dramatic literature within historical and/or cultural contexts. May be repeated as topics change.

TA 445. The Camera Eye. 4 Units.
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.

TA 446. Directing II. 3 Units.
Prerequisites: TA 346
Advanced studies in play directing.

TA 450. Classical Drama. 4 Units.
Development of comedy and tragedy in Greece and Rome.

TA 451. Mystery to Melodrama. 4 Units.
Development of drama from medieval passion plays to late nineteenth century villain-hissing melodramas. Emphasis on either comedy or tragedy.

TA 455. Modern Drama I. 4 Units.
European, British and American realism.

TA 456. Modern Drama II. 4 Units.
European, British and American anti-realism.

TA 457. Theatre of the Avant-Garde. 4 Units.
Exploration and analysis of performance traditions from Dada to performance art.

TA 458. Theatre for Youth: History and Literature. 4 Units.
Exploration and analysis of the history and literature of performance for young audiences, from its origins to current trends.

TA 459. Performance for New Media. 3 Units.
Prerequisites: TA 357. May be repeated for credit
Advanced study and application of acting techniques for emerging media forms.

TA 461. American Drama. 4 Units.
Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society.
TA 462. African-American Theatre and Drama. 4 Units.

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.

TA 463. Asian Theatre. 4 Units.

(GE=G2)
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.

TA 464. Theatre in the Post-Colonial World. 4 Units.
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.

TA 465. Ethnic Films and Film Makers. 4 Units.
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.

TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre. 4 Units.
An examination of the culturally diverse body of theatre work dealing with Gay/Lesbian/Bisexual/Transgender issues.

TA 468. Chicana/o and U.S. Latina/o Theatre. 4 Units.

TA 475. Shakespeare I. 4 Units.
Prerequisites: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B; or consent of instructor
Comedies and history plays. (Also offered as ENG 475. Students may not receive credit for both.)

TA 476. Shakespeare II. 4 Units.
Prerequisites: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B; or consent of instructor
Tragedies and romances. (Also offered as ENG 476. Students may not receive credit for both.)

TA 481. Creative Drama in the Classroom. 3 Units.
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.

TA 483. Childrens Theatre. 4 Units.
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 childrens literature. The course presents approaches to childrens theatre in community and educational settings.

TA 484. Readers Theatre in the Classroom. 3 Units.
Theory and techniques of adapting, directing and performing non-dramatic childrens 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.

TA 486. Puppetry in the Classroom. 3 Units.
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.

TA 501. Media Performance Practicum. 4 Units.
Practical application of writing, performance, and production skills. The practicum course is designed for students interested in writing scripts, performing, and producing for radio shows, online and other social media outlets. The course can be taken twice for credit as Eng 501 or TA 501 (cross-listed as ENG 501). Graded Credit/No Credit.

TA 505. Criticism of Theatre in Performance. 4 Units.
Prerequisites: TA 302, ENG 306 or consent of instructor
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.

TA 510. Studies of Major Figures and Genres. 4 Units.
Advanced study of a selected theatre topic. May be repeated for credit as topics change.

TA 520. Theatre Seminar. 4 Units.
Literature and theory relative to topics such as: aesthetics, theatre history, drama, dramatic criticism and design. May be repeated for credit as topics change.

TA 526. Puppetry Workshop. 3 Units.
Prerequisites: TA 356 or 486
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.

TA 535A. Independent Project. 1 Unit.
Prerequisites: consent of instructor
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.
TA 535A. Independent Study. 1 Unit.
Prerequisites: consent of instructor
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.

TA 535B. Independent Project. 2 Units.
Prerequisites: consent of instructor
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.

TA 535C. Independent Project. 3 Units.
Prerequisites: consent of instructor
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.

TA 535D. Independent Project. 4 Units.
Prerequisites: consent of instructor
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.

TA 535E. Independent Study. 5 Units.
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
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.

TA 535F. Independent Study. 6 Units.
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
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.

TA 575A. Internship in Theatre Arts. 1 Unit.
Prerequisites: consent of internship coordinator
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.

TA 575B. Internship in Theatre Arts. 2 Units.
Prerequisites: consent of internship coordinator
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.

TA 575C. Internship in Theatre Arts. 3 Units.
Prerequisites: consent of internship coordinator
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.

TA 575D. Internship in Theatre Arts. 4 Units.
Prerequisites: consent of internship coordinator
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.

TA 575E. Internship in Theatre Arts. 5 Units.
Prerequisites: consent of internship coordinator
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.

TA 575F. Internship in Theatre Arts. 6 Units.
Prerequisites: consent of internship coordinator
Supervised study in private or public organizations. A total of 12 units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit.

TA 579. Theatre in the Elementary Classroom. 4 Units.
Prerequisites: TA 481 or 484 or consent of instructor
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.
TA 580. Advanced Creative Drama in the Classroom. 4 Units.
Prerequisites: TA 481
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.

TA 581. Theatre in the Secondary Classroom. 4 Units.
Prerequisites: TA 302 or ENG 302, and TA 481 or 484
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.

TA 585. Senior Assessment. 1 Unit.
Prerequisites: senior status; must be taken in winter quarter immediately prior to graduation
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.

TA 600. Research Methods in Theatre. 4 Units.
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.

TA 602. Seminar in Dramatic Literature for Stage and Film. 4 Units.
Prerequisites: ENG 600 or consent of instructor
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.).

TA 620A. Applied Theatre Practicum. 1 Unit.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620B. Applied Theatre Practicum. 2 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620C. Applied Theatre Practicum. 3 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620D. Applied Theatre Practicum. 4 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620E. Applied Theatre Practicum. 5 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620F. Applied Theatre Practicum. 6 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620G. Applied Theatre Practicum. 7 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 620H. Applied Theatre Practicum. 8 Units.
Advanced study and application of techniques and technologies used in the creation of theatre.

TA 633. Seminar in Theory and Criticism. 4 Units.
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.

TA 646. Graduate Directing. 4 Units.
Advanced studies in play directing, with a special emphasis on directing the high school performer.

TA 650. Seminar in Dramatic Production. 4 Units.
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.

TA 681. Graduate Creative Drama. 4 Units.
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.

TA 683. Advanced Studies in Theatre for Youth. 4 Units.
Prerequisites: consent of instructor
Advanced study of a selected theatre topic, including but not limited to: readers 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.

TA 684. Graduate Readers Theatre. 4 Units.
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.

TA 686. Graduate Puppetry. 4 Units.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 694A</td>
<td>Graduate Project Preparation. 1 Unit</td>
<td>1</td>
<td>advancement to candidacy, approval of graduate coordinator, and good academic standing</td>
<td>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.</td>
</tr>
<tr>
<td>TA 694B</td>
<td>Graduate Project Preparation. 2 Units</td>
<td>2</td>
<td>advancement to candidacy, approval of graduate coordinator, and good academic standing</td>
<td>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.</td>
</tr>
<tr>
<td>TA 694C</td>
<td>Graduate Project Preparation. 3 Units</td>
<td>3</td>
<td>advancement to candidacy, approval of graduate coordinator, and good academic standing</td>
<td>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.</td>
</tr>
<tr>
<td>TA 694D</td>
<td>Graduate Project Preparation. 4 Units</td>
<td>4</td>
<td>advancement to candidacy, approval of graduate coordinator, and good academic standing</td>
<td>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.</td>
</tr>
<tr>
<td>TA 694E</td>
<td>Graduate Project Preparation. 5 Units</td>
<td>5</td>
<td>advancement to candidacy, approval of graduate coordinator, and good academic standing</td>
<td>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.</td>
</tr>
<tr>
<td>TA 695A</td>
<td>Advanced Project. 1 Unit</td>
<td>1</td>
<td>advancement to candidacy</td>
<td>Advanced individual project on a specific topic relevant to the student’s program of study. Done under direct supervision.</td>
</tr>
<tr>
<td>TA 695B</td>
<td>Advanced Project. 2 Units</td>
<td>2</td>
<td>advancement to candidacy</td>
<td>Advanced individual project on a specific topic relevant to the student’s program of study. Done under direct supervision.</td>
</tr>
<tr>
<td>TA 695C</td>
<td>Advanced Project. 3 Units</td>
<td>3</td>
<td>advancement to candidacy</td>
<td>Advanced individual project on a specific topic relevant to the student’s program of study. Done under direct supervision.</td>
</tr>
<tr>
<td>TA 695D</td>
<td>Advanced Project. 4 Units</td>
<td>4</td>
<td>advancement to candidacy</td>
<td>Advanced individual project on a specific topic relevant to the student’s program of study. Done under direct supervision.</td>
</tr>
<tr>
<td>TA 695E</td>
<td>Advanced Project. 5 Units</td>
<td>5</td>
<td>advancement to candidacy</td>
<td>Advanced individual project on a specific topic relevant to the student’s program of study. Done under direct supervision.</td>
</tr>
<tr>
<td>TA 696A</td>
<td>Advanced Internship. 1 Unit</td>
<td>1</td>
<td>advancement to candidacy</td>
<td>Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.</td>
</tr>
<tr>
<td>TA 696B</td>
<td>Advanced Internship. 2 Units</td>
<td>2</td>
<td>advancement to candidacy</td>
<td>Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.</td>
</tr>
<tr>
<td>TA 696C</td>
<td>Advanced Internship. 3 Units</td>
<td>3</td>
<td>advancement to candidacy</td>
<td>Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.</td>
</tr>
<tr>
<td>TA 696D</td>
<td>Advanced Internship. 4 Units</td>
<td>4</td>
<td>advancement to candidacy</td>
<td>Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.</td>
</tr>
<tr>
<td>TA 696E</td>
<td>Advanced Internship. 5 Units</td>
<td>5</td>
<td>advancement to candidacy</td>
<td>Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.</td>
</tr>
<tr>
<td>TA 697A</td>
<td>Thesis Preparation. 1 Unit</td>
<td>1</td>
<td>advancement to candidacy, approval of graduate coordinator, good academic standing</td>
<td>Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.</td>
</tr>
<tr>
<td>TA 697B</td>
<td>Thesis Preparation. 2 Units</td>
<td>2</td>
<td>advancement to candidacy, approval of graduate coordinator, good academic standing</td>
<td>Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.</td>
</tr>
<tr>
<td>TA 697C</td>
<td>Thesis Preparation. 3 Units</td>
<td>3</td>
<td>advancement to candidacy, approval of graduate coordinator, good academic standing</td>
<td>Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.</td>
</tr>
<tr>
<td>TA 697D</td>
<td>Thesis Preparation. 4 Units</td>
<td>4</td>
<td>advancement to candidacy, approval of graduate coordinator, good academic standing</td>
<td>Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.</td>
</tr>
<tr>
<td>TA 697E</td>
<td>Thesis Preparation. 5 Units</td>
<td>5</td>
<td>advancement to candidacy, approval of graduate coordinator, good academic standing</td>
<td>Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.</td>
</tr>
</tbody>
</table>
TA 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
TA 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

TA 699. Thesis. 4 Units.
Independent graduate research in theatre arts culminating in a written thesis.

TA 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing. An assessment of the students ability to integrate the knowledge of the areas, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts in Theatre Arts

Requirements (83 units)
Total units required for graduation: 180

Requirements for the B.A. in Theatre Arts

Lower-division requirements (24)
TA 235 Fundamentals of Stage Design 4
Two units chosen from:
DAN 200A-D Studies in Dance:
TA 245 Beginning Theatre Movement
TA 253 Voice for the Stage
TA 240 Improvisation 3
TA 251 Acting I: Games and Exercises 3
TA 252 Acting II: Creating a Role 3
Nine units chosen from:
TA 131 Makeup for Stage and Screen
TA 231 Sound for Stage and Screen
TA 232 Lighting for Stage and Screen
TA 233 Costume Construction
TA 239 Stagecraft

Upper-division requirements (36)
TA 302A Analysis of Drama 4
TA 331 Theatre Management 4
TA 346 Directing I 3
TA 361 Theatre History I: Origins Through Medieval Eighteenth Century 4
TA 362 Theatre History II: Renaissance Through Eighteenth Century 4

TA 363 Theatre History III: Nineteenth Century to the Present 4
Four units chosen from:
TA 320A Performance Practicum: Main Stage
TA 320B Performance Practicum: Imagination Players
TA 320C Performance Practicum: Touring Theatre
TA 320E Performance Practicum: Dance Performance
TA 320F Performance Practicum: Dance Performance
TA 320G Performance Practicum: Puppetry Performance
TA 321A Technical Practicum or TA 321B Technical Practicum

Eight units chosen from:
TA 401 History of Musical Theatre
TA 423 Studies in Dramatic Literature
TA 450 Classical Drama
TA 451 Mystery to Melodrama
TA 455 Modern Drama I
TA 456 Modern Drama II
TA 457 Theatre of the Avant-Garde
TA 458 Theatre for Youth: History and Literature
TA 461 American Drama
TA 462 African-American Theatre and Drama
TA 463 Asian Theatre
TA 464 Theatre in the Post-Colonial World
TA 466 Issues in Gay, Lesbian, Bisexual, and Transgender Theatre
TA 468 Chicana/o and U.S. Latina/o Theatre
TA 475 Shakespeare I
TA 476 Shakespeare II
TA 501 Media Performance Practicum or ENG 501 Media Performance Practicum
TA 505 Criticism of Theatre in Performance
TA 585 Senior Assessment 1

Emphases (19)
Nineteen units chosen from one of the following emphases which were not chosen as part of the core 19

Total Units 79

Emphases

Acting Emphasis
Two units chosen from the following courses, which were not chosen as part of the lower-division core:
DAN 200A-D Studies in Dance
TA 245 Beginning Theatre Movement
TA 253 Voice for the Stage
TA 345 Advanced Voice and Movement 2
TA 351 Acting III: Scene Study 3

Twelve units chosen from:
TA 352 Acting IV: Modern Repertory
TA 353 Acting V: Styles of Acting
TA 354 Acting VI: Acting Shakespeare
TA 355 Acting VII: Acting Musicals
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 357</td>
<td>Acting for the Camera</td>
<td>1</td>
</tr>
<tr>
<td>TA 446</td>
<td>Directing II</td>
<td>1</td>
</tr>
<tr>
<td>TA 459</td>
<td>Performance for New Media</td>
<td>1</td>
</tr>
<tr>
<td>TA 535B</td>
<td>Independent Project</td>
<td>1</td>
</tr>
</tbody>
</table>

### Total Units
19

#### Dance Emphasis

Twelve units (at least six of which must be upper-division) chosen from:
- DAN 200A Studies in Dance: Jazz
- DAN 200B Studies in Dance: Modern
- DAN 200C Studies in Dance: Tap
- DAN 200D Studies in Dance: Ballet
- DAN 300A Dance Techniques: Jazz
- DAN 300B Dance Techniques: Modern
- DAN 300C Dance Techniques: Tap
- DAN 300D Dance Techniques: Ballet
- DAN 300E Dance Techniques: Musical Theatre
- DAN 310A World Dance Traditions: African
- DAN 310B World Dance Traditions: South and Central American
- DAN 310C World Dance Traditions: North American
- DAN 310D World Dance Traditions: Asian
- DAN 310E World Dance Traditions: Mediterranean

Seven units chosen from:
- DAN 355 Dance Notation
- DAN 360 Dance History
- DAN 450 Choreography
- DAN 481 Creative Dance in the Classroom
- TA 355 Acting VII: Acting Musicals
- TA 401 History of Musical Theatre
- TA 463 Asian Theatre

### Total Units
19

#### Design/Technical Emphasis

- TA 130 Computer Applications for Technical Theatre (for a total of 2)
- TA 334 Theatrecrafts (for a total of 6)
- TA 131 Makeup for Stage and Screen
- TA 231 Sound for Stage and Screen
- TA 232 Lighting for Stage and Screen
- TA 233 Costume Construction
- TA 239 Stagecraft

Six units chosen from:
- TA 332 Stage Lighting Design
- TA 333 Stage Sound Design
- TA 337 Design: Costume Design
- TA 338 Design: Scene Design

Two units chosen from:
- TA 321A Technical Practicum
- TA 321B Technical Practicum

### Total Units
19

#### 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 MUS 101).

- DAN 300E Dance Techniques: Musical Theatre
- TA 340 Singing for Musical Theatre

Four units chosen from:
- DAN 481 Creative Dance in the Classroom
- MUS 140 Lower-Division Voice I
- MUS 302 Music Theatre Production
- MUS 385 Concert Choir
- MUS 386 Chamber Singers
- MUS 387 Opera Theatre I
- MUS 392 Vocal Jazz
- MUS 397 Opera Theatre II
- TA 320F Performance Practicum: Dance Performance
- TA 355 Acting VII: Acting Musicals
- TA 401 History of Musical Theatre (cannot be taken as part of upper-division core)

### Total Units
19

### 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. 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;
2. 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;
3. A capstone experience of a project or internship approved by the student’s advisory committee and graduate coordinator;
4. Successful completion of TA 695 or TA 699 which also meets the department’s graduation writing requirements.

Degree Requirements (45 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 450</td>
<td>Choreography</td>
<td>12</td>
</tr>
<tr>
<td>DAN 481</td>
<td>Creative Dance in the Classroom</td>
<td></td>
</tr>
<tr>
<td>DAN 580</td>
<td>Advanced Creative Dance Methods</td>
<td></td>
</tr>
<tr>
<td>ENG 511</td>
<td>Creative Writing in the Secondary Classroom</td>
<td></td>
</tr>
<tr>
<td>ENG 535</td>
<td>Images of Culture Through Children's Literature</td>
<td></td>
</tr>
<tr>
<td>TA 401</td>
<td>History of Musical Theatre</td>
<td></td>
</tr>
<tr>
<td>TA 445</td>
<td>The Camera Eye</td>
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<tr>
<td>TA 459</td>
<td>Performance for New Media</td>
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<tr>
<td>TA 462</td>
<td>African-American Theatre and Drama</td>
<td></td>
</tr>
<tr>
<td>TA 463</td>
<td>Asian Theatre</td>
<td></td>
</tr>
<tr>
<td>TA 464</td>
<td>Theatre in the Post-Colonial World</td>
<td></td>
</tr>
</tbody>
</table>

Minor in Theatre Arts

Requirements (24 units)

Requirements for a minor in Theatre Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 260</td>
<td>Introduction to Theatre</td>
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</tbody>
</table>

Upper-division requirement (2)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>TA 320A</td>
<td>Performance Practicum: Main Stage</td>
</tr>
<tr>
<td>TA 320B</td>
<td>Performance Practicum: Imagination Players</td>
</tr>
<tr>
<td>TA 320C</td>
<td>Performance Practicum: Touring Theatre</td>
</tr>
<tr>
<td>TA 320E</td>
<td>Performance Practicum: Dance Performance</td>
</tr>
<tr>
<td>TA 320F</td>
<td>Performance Practicum: Dance Performance</td>
</tr>
<tr>
<td>TA 320G</td>
<td>Performance Practicum: Puppetry Peformance</td>
</tr>
<tr>
<td>TA 321A</td>
<td>Technical Practicum</td>
</tr>
<tr>
<td>TA 321B</td>
<td>Technical Practicum</td>
</tr>
</tbody>
</table>

Emphases (18)

Eighteen units chosen from one of the following emphases (minimum of seven units must be upper-division):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 251</td>
<td>Acting I: Games and Exercises</td>
</tr>
<tr>
<td>TA 252</td>
<td>Acting II: Creating a Role</td>
</tr>
<tr>
<td>TA 351</td>
<td>Acting III: Scene Study</td>
</tr>
<tr>
<td>TA 131</td>
<td>Makeup for Stage and Screen</td>
</tr>
<tr>
<td>TA 240</td>
<td>Improvisation</td>
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<tr>
<td>TA 245</td>
<td>Beginning Theatre Movement</td>
</tr>
<tr>
<td>TA 253</td>
<td>Voice for the Stage</td>
</tr>
<tr>
<td>TA 345</td>
<td>Advanced Voice and Movement</td>
</tr>
<tr>
<td>TA 346</td>
<td>Directing I</td>
</tr>
<tr>
<td>TA 352</td>
<td>Acting IV: Modern Repertory</td>
</tr>
<tr>
<td>TA 353</td>
<td>Acting V: Styles of Acting</td>
</tr>
<tr>
<td>TA 354</td>
<td>Acting VI: Acting Shakespeare</td>
</tr>
<tr>
<td>TA 355</td>
<td>Acting VII: Acting Musicals</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
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</tr>
<tr>
<td>TA 357</td>
<td>Acting for the Camera</td>
</tr>
<tr>
<td>TA 446</td>
<td>Directing II</td>
</tr>
<tr>
<td>TA 459</td>
<td>Performance for New Media</td>
</tr>
</tbody>
</table>

**Total Units**: 18

### Dance Emphasis

**Ten units chosen from:**

- DAN 200A  Studies in Dance: Jazz
- DAN 200B  Studies in Dance: Modern
- DAN 200C  Studies in Dance: Tap
- DAN 200D  Studies in Dance: Ballet
- DAN 300A  Dance Techniques: Jazz
- DAN 300B  Dance Techniques: Modern
- DAN 300C  Dance Techniques: Tap
- DAN 300D  Dance Techniques: Ballet
- DAN 300E  Dance Techniques: Musical Theatre
- DAN 310A  World Dance Traditions: African
- DAN 310B  World Dance Traditions: South and Central American
- DAN 310C  World Dance Traditions: North American
- DAN 310D  World Dance Traditions: Asian
- DAN 310E  World Dance Traditions: Mediterranean

**Eight units chosen from:**

- DAN 355  Dance Notation
- DAN 360  Dance History
- DAN 450  Choreography
- DAN 481  Creative Dance in the Classroom
- DAN 580  Advanced Creative Dance Methods
- TA 131  Makeup for Stage and Screen
- TA 231  Sound for Stage and Screen
- TA 232  Lighting for Stage and Screen
- TA 233  Costume Construction
- TA 240  Improvisation
- TA 245  Beginning Theatre Movement

**Total Units**: 18

### Design/Technical Emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 235</td>
<td>Fundamentals of Stage Design</td>
</tr>
</tbody>
</table>

**Six units chosen from:**

- TA 131  Makeup for Stage and Screen
- TA 231  Sound for Stage and Screen
- TA 232  Lighting for Stage and Screen
- TA 233  Costume Construction
- TA 239  Stagecraft
- TA 321A Technical Practicum
- TA 321B Technical Practicum
- TA 331  Theatre Management
- TA 332  Stage Lighting Design
- TA 334  Theatrecrafts
- TA 337  Design: Costume Design

**Total Units**: 18

### Drama Education Emphasis

**DAN 481  Creative Dance in the Classroom** 4

**TA 481  Creative Drama in the Classroom** 3

**Eleven units chosen from:**

- DAN 580  Advanced Creative Dance Methods
- TA 240  Improvisation
- TA 251  Acting I: Games and Exercises
- TA 320A  Performance Practicum: Main Stage
- TA 320B  Performance Practicum: Imaginative Players
- TA 320C  Performance Practicum: Touring Theatre
- TA 321A Technical Practicum
- TA 321B Technical Practicum
- TA 385  Acting for Non-Majors
- TA 483  Childrens Theatre
- TA 484  Readers Theatre in the Classroom
- TA 486  Puppetry in the Classroom
- TA 579  Theatre in the Elementary Classroom
- TA 580  Advanced Creative Drama in the Classroom
- TA 581  Theatre in the Secondary Classroom

**Total Units**: 18

### Dramatic Literature Emphasis

**Eight units chosen from:**

- TA 302B  Analysis and Writing of Drama
- TA 347  Playwriting
- TA 505  Criticism of Theatre in Performance

**Eight units chosen from:**

- TA 423  Studies in Dramatic Literature
- TA 450  Classical Drama
- TA 451  Mystery to Melodrama
- TA 463  Asian Theatre
- TA 475  Shakespeare I
- TA 476  Shakespeare II
- TA 423  Studies in Dramatic Literature
- TA 401  History of Musical Theatre
- TA 455  Modern Drama I
- TA 456  Modern Drama II
- TA 457  Theatre of the Avant-Garde
- TA 461  American Drama
- TA 462  African-American Theatre and Drama
- TA 464  Theatre in the Post-Colonial World
- TA 466  Issues in Gay, Lesbian, Bisexual, and Transgender Theatre

**A minimum of two units chosen from:**

- TA 423  Studies in Dramatic Literature
- TA 401  History of Musical Theatre

**Total Units**: 18
Puppetry Emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 334</td>
<td>Theatrecrafts (when the topic is puppetry)</td>
<td>3</td>
</tr>
<tr>
<td>TA 356</td>
<td>Puppetry</td>
<td>3</td>
</tr>
<tr>
<td>TA 358</td>
<td>Puppetry for the Camera</td>
<td>3</td>
</tr>
<tr>
<td>TA 526</td>
<td>Puppetry Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Six units chosen from:</td>
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</tr>
<tr>
<td>TA 233</td>
<td>Costume Construction</td>
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<tr>
<td>TA 235</td>
<td>Fundamentals of Stage Design</td>
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</tr>
<tr>
<td>TA 240</td>
<td>Improvisation</td>
<td></td>
</tr>
<tr>
<td>TA 253</td>
<td>Voice for the Stage</td>
<td></td>
</tr>
<tr>
<td>TA 346</td>
<td>Directing I</td>
<td></td>
</tr>
<tr>
<td>TA 351</td>
<td>Acting III: Scene Study</td>
<td></td>
</tr>
<tr>
<td>TA 458</td>
<td>Theatre for Youth: History and Literature</td>
<td></td>
</tr>
<tr>
<td>TA 486</td>
<td>Puppetry in the Classroom</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 18

Certificate in Puppetry

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 334</td>
<td>Theatrecrafts (when the topic is puppetry)</td>
<td>3</td>
</tr>
<tr>
<td>TA 356</td>
<td>Puppetry</td>
<td>3</td>
</tr>
<tr>
<td>TA 358</td>
<td>Puppetry for the Camera</td>
<td>3</td>
</tr>
<tr>
<td>TA 458</td>
<td>Theatre for Youth: History and Literature</td>
<td>4</td>
</tr>
<tr>
<td>TA 526</td>
<td>Puppetry Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>TA 233</td>
<td>Costume Construction</td>
<td></td>
</tr>
<tr>
<td>TA 235</td>
<td>Fundamentals of Stage Design</td>
<td></td>
</tr>
<tr>
<td>TA 321A</td>
<td>Technical Practicum</td>
<td></td>
</tr>
<tr>
<td>TA 321B</td>
<td>Technical Practicum</td>
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<tr>
<td></td>
<td>Twelve units chosen from:</td>
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<tr>
<td>TA 240</td>
<td>Improvisation</td>
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<tr>
<td>TA 253</td>
<td>Voice for the Stage</td>
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</tr>
<tr>
<td>TA 351</td>
<td>Acting III: Scene Study</td>
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</tr>
<tr>
<td>TA 346</td>
<td>Directing I</td>
<td></td>
</tr>
<tr>
<td>TA 484</td>
<td>Readers Theatre in the Classroom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>TA 385</td>
<td>Acting for Non-Majors</td>
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</tr>
<tr>
<td></td>
<td>Three units chosen from:</td>
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<tr>
<td>TA 131</td>
<td>Makeup for Stage and Screen</td>
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</tr>
<tr>
<td>TA 231</td>
<td>Sound for Stage and Screen</td>
<td></td>
</tr>
<tr>
<td>TA 232</td>
<td>Lighting for Stage and Screen</td>
<td></td>
</tr>
<tr>
<td>TA 233</td>
<td>Costume Construction</td>
<td></td>
</tr>
<tr>
<td>TA 320A</td>
<td>Performance Practicum: Main Stage</td>
<td></td>
</tr>
<tr>
<td>TA 320B</td>
<td>Performance Practicum: Imagination Players</td>
<td></td>
</tr>
<tr>
<td>TA 320C</td>
<td>Performance Practicum: Touring Theatre</td>
<td></td>
</tr>
<tr>
<td>TA 320E</td>
<td>Performance Practicum: Dance Performance</td>
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<tr>
<td>TA 320F</td>
<td>Performance Practicum: Dance Performance</td>
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</tr>
<tr>
<td>TA 385</td>
<td>Acting for Non-Majors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eight units chosen from:</td>
<td>8</td>
</tr>
<tr>
<td>TA 221</td>
<td>Theatre Laboratory: Performance</td>
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</tr>
</tbody>
</table>

Certificate in Theatre for Youth

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 481</td>
<td>Creative Drama in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TA 483</td>
<td>Childrens Theatre</td>
<td>4</td>
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<tr>
<td>TA 240</td>
<td>Improvisation</td>
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<tr>
<td>TA 484</td>
<td>Readers Theatre in the Classroom</td>
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</tr>
<tr>
<td>TA 486</td>
<td>Puppetry in the Classroom</td>
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</tr>
<tr>
<td>TA 446</td>
<td>Directing II</td>
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</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
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</tr>
<tr>
<td>TA 579</td>
<td>Theatre in the Elementary Classroom</td>
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<tr>
<td>TA 580</td>
<td>Advanced Creative Drama in the Classroom</td>
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</tr>
<tr>
<td>TA 581</td>
<td>Theatre in the Secondary Classroom</td>
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</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
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<tr>
<td>TA 320A</td>
<td>Performance Practicum: Main Stage</td>
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</tr>
<tr>
<td>TA 320B</td>
<td>Performance Practicum: Imagination Players</td>
<td></td>
</tr>
<tr>
<td>TA 320C</td>
<td>Performance Practicum: Touring Theatre</td>
<td></td>
</tr>
<tr>
<td>TA 320E</td>
<td>Performance Practicum: Dance Performance</td>
<td></td>
</tr>
<tr>
<td>TA 320F</td>
<td>Performance Practicum: Dance Performance</td>
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<tr>
<td>TA 385</td>
<td>Acting for Non-Majors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Three units chosen from:</td>
<td>3</td>
</tr>
<tr>
<td>TA 131</td>
<td>Makeup for Stage and Screen</td>
<td></td>
</tr>
<tr>
<td>TA 231</td>
<td>Sound for Stage and Screen</td>
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<tr>
<td>TA 232</td>
<td>Lighting for Stage and Screen</td>
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<tr>
<td>TA 233</td>
<td>Costume Construction</td>
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<tr>
<td>TA 320A</td>
<td>Performance Practicum: Main Stage</td>
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<tr>
<td>TA 320B</td>
<td>Performance Practicum: Imagination Players</td>
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<tr>
<td>TA 320C</td>
<td>Performance Practicum: Touring Theatre</td>
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<tr>
<td>TA 320E</td>
<td>Performance Practicum: Dance Performance</td>
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<tr>
<td>TA 320F</td>
<td>Performance Practicum: Dance Performance</td>
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<tr>
<td>TA 385</td>
<td>Acting for Non-Majors</td>
<td></td>
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<tr>
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<td>Eight units chosen from:</td>
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</tr>
<tr>
<td>TA 221</td>
<td>Theatre Laboratory: Performance</td>
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</tr>
<tr>
<td>Course</td>
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<tr>
<td>TA 347</td>
<td>Playwriting</td>
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<td>TA 446</td>
<td>Directing II</td>
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<tr>
<td>TA 461</td>
<td>American Drama</td>
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<tr>
<td>TA 462</td>
<td>African-American Theatre and Drama</td>
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<tr>
<td>TA 463</td>
<td>Asian Theatre</td>
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<tr>
<td>TA 466</td>
<td>Issues in Gay, Lesbian, Bisexual, and Transgender Theatre</td>
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<tr>
<td>TA 468</td>
<td>Chicana/o and U.S. Latina/o Theatre</td>
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<td>TA 510</td>
<td>Studies of Major Figures and Genres</td>
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<tr>
<td>TA 520</td>
<td>Theatre Seminar</td>
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</tbody>
</table>

**Total Units** 32
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.

A materials fee is required for all undergraduate lecture/seminar courses offered by World Languages and Literatures.

Certificate Program
California Indian Languages and Cultures

Arabic
Bachelor of Arts
Arabic Language, Literature and Culture

Minor
Arabic

Certificate Program
• Arabic

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.

Departmental Honors
A graduating senior will be awarded departmental honors in Arabic after meeting the following requirements:

1. Earned a minimum 3.5 grade point average in the major.
2. Completed at least 45 units of the major at this university.
3. Successfully completed an oral and written honors evaluation.

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in ARAB 496. The honors evaluation will take place during ARAB 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements 1 and 2 above.

French
Bachelor of Arts
• French with tracks in:
  • French and Francophone Studies Track
  • Teacher Track
  • Business Track

Teaching Credential Program
French
Minor
French

Certificate Program
French/English Translation

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.

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, contact the Credentials Office, CE-102.

German
Minor
German

Certificate Program
German/English Translators

The German program, open to all interested students, offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Germany, Austria and Switzerland. Information on the special interdisciplinary major in German area studies may be obtained from the Department of World Languages and Literatures.

Japanese

Minor

Japanese

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.

Spanish

Bachelor of Arts

- Spanish
  - Business Track
  - Communication Track
  - Hispanic Cultural Studies Track
  - Hispanic Literature, Language, and Civilization Track

Teaching Credential Program

Spanish

Minor

Spanish

Certificate Programs

- Bilingual/Cross-Cultural Studies: Spanish/English
- Spanish for Public Services
- Hispanic Literatures
  - Spanish Applied Linguistics

Master of Arts

- Spanish
  - Spanish Language Teaching
  - Hispanic Literature, Linguistics and Civilization

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 4
SPAN 202 Intermediate Spanish II 4
SPAN 203 Intermediate Spanish III 4

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.

Teaching Credential Program

The Bachelor of Arts in Spanish is approved as a single subject teaching credential program. In addition to the requirements of the major, credential candidates must complete certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, contact the Credentials Office, CE-102.

Departmental Honors

1. Earned a 3.5 grade point average in the major.
2. Completed at least 45 units of the major at this university.
3. Successful completion of an oral and written honors evaluation.

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in SPAN 496. The honors evaluation will take place during SPAN 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements one and two above.

Course Offerings

Students may petition to receive course credit by examination (CBE) for no more than 12 units towards the major, minor or certificate. 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.

Current Faculty
Ruth E. Burke, Associate Professor
B.A. 1972, Loma Linda University
M.A. 1975, Ph.D. 1984, University of California, Riverside
Rafael E. Correa, Professor, Chair
B.A. 1973, M.A. 1976, Ph.D. 1984, Rutgers University
Dany Doueiri, Associate Professor
B.S. 1989, California Polytechnic University
M.S. 1991, University of California, Davis
Ph.D. 1996, University of California, Los Angeles
Arturo Fernández-Gilbert, Professor
B.A. 1988, M.A. 1991, Universidad Complutense de Madrid
Ph.D. 2001, University of New Mexico, Albuquerque
M. Antonietta Gallegos-Ruiz, Professor
B.A. 1976, M.A. 1979, California State University, Los Angeles
Ph.D. 1987, University of Southern California
Karen Gervasi, Associate Professor
B.A. 1992, Pontifical Catholic University of Peru
M.A. 1994, Ph.D. 2000, University of Southern California
Carmen Jany, Associate Professor
Ph.D. 2001, University of Zurich, Switzerland
Santa Barbara
Jesus D. Jerez-Gomez, Associate Professor
B.A. 1998, Universidad de Granada, Spain
M.A. 2000, Kansas State University
Ph.D. 2006, University of California, Davis
Oraib Mango, Assistant Professor
B.A. 1992, University of Jordan, Amman
Elizabeth Martin, Associate Professor
B.A. 1981, Ball State University
M.A. 1984, Middlebury College
Ph.D. 1998, University of Illinois
Terri J. Nelson, Professor, Chair
B.S. 1982, B.A. 1987, University of Utah
M.A. 1988, Middlebury College
Ph.D. 1995, Northwestern University, Illinois
Aurora Wolfgang, Professor
B.A. 1984, University of California, Santa Cruz
M.A. 1986, Ph.D. 1993, New York University

Emeriti
Jacques Benzakein, Professor
Miriam A. Gonzalez, Professor
Jorun Johns, Professor
Mireille G. Rydell, Professor

Daniel Whitaker, Professor
Eri F. Yasuhara, Dean Emeritus

Undergraduate Degrees
Bachelor of Arts
- Arabic Language, Literature, and Culture (p. 317)
  Coordinator: Dany Doueiri
- French (p. 321) with tracks in:
  - French and Francophone Studies
  - Business
- Spanish (p. 323) with tracks in:
  - Business
  - Communication
  - Hispanic Cultural Studies
  - Hispanic Literature, Language, and Civilization

Graduate Degrees
Master of Arts
- Spanish (p. 325)
  - Spanish Language Teaching
  - Hispanic Applied Linguistics
  - Hispanic Literature, Linguistics and Civilization
  Coordinator: Carmen Jany

Minors
- Arabic (p. 327)
  Coordinator: Dany Doueiri
- French (p. 328)
  Coordinator: Aurora Wolfgang
- German (p. 328)
  Coordinator: Ruth Burke
- Japanese (p. 328)
- Spanish (p. 328)

Certificates
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American Sign Language Courses

ASL 101. American Sign Language I. 4 Units.
Introduction to the language. Fundamentals of signing and language structure designed to develop the ability to use and understand the language.

ASL 102. American Sign Language II. 4 Units.
Prerequisites: ASL 101 or consent of department
Further study in American Sign Language. Fundamentals of signing and language structure to further develop the ability to use and understand the language.

ASL 103. American Sign Language III. 4 Units.
Prerequisites: ASL 102
(GE=C3)
Intermediate study in American Sign Language. Emphasis on proficiency/competence at the intermediate level. Formerly ASL 150.

ASL 201. American Sign Language IV. 4 Units.
Prerequisites: ASL 103 or equivalent
(GE=C3)
Continued study of American Sign Language at the intermediate level.

ASL 202. American Sign Language V. 4 Units.
Prerequisites: ASL 201 or equivalent
(GE=C3)
Continued study of American Sign Language at the intermediate level.

ASL 203. American Sign Language VI. 4 Units.
Prerequisites: ASL 201 or equivalent
(GE=C3)
Continued study of American Sign Language at the intermediate level.

ASL 232. Introduction to ASL Interpreting. 4 Units.
Prerequisites: ASL 103
Overview and practical application of interpretation. Emphasis on the professional code of ethics and professional concerns. Formerly FLAN 232.

ASL 301. Advanced American Sign Language I. 4 Units.
Prerequisites: ASL 203 or equivalent
Study of ASL at an advanced level.

ASL 302. Advanced American Sign Language II. 4 Units.
Prerequisites: ASL 301 or equivalent
Study of ASL at an advanced level.

ASL 350. Deaf Students and Culture. 4 Units.
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.

Arabic Courses

ARAB 101. College Arabic I. 4 Units.
Introduction to Arabic including fundamentals of grammatical structure, pronunciation and culture. Formerly a topic under FLAN 101.

ARAB 102. College Arabic II. 4 Units.
Prerequisites: ARAB 101 or equivalent
Further study of the fundamentals of grammatical structure, pronunciation and culture. Emphasis in oral communication, reading and writing. Formerly a topic under FLAN 102.

ARAB 103. College Arabic III. 4 Units.
Prerequisites: ARAB 102
(GE=C3)
Emphasis on oral and writing competencies at the intermediate level in a cultural context. Formerly ARAB 150.

ARAB 104. College Arabic IV. 4 Units.
Prerequisites: ARAB 103 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Graded credit/no credit.

ARAB 105. College Arabic V. 4 Units.
Prerequisites: ARAB 104 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Graded credit/no credit.

ARAB 170. Beginning Arabic Conversation. 2 Units.
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.

ARAB 201. Intermediate Arabic I. 4 Units.
Prerequisites: ARAB 103 or equivalent
(GE=C3)
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.

ARAB 202. Intermediate Arabic II. 4 Units.
Prerequisites: ARAB 201 or equivalent
(GE=C3)
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.

ARAB 203. Intermediate Arabic III. 4 Units.
Prerequisites: ARAB 202 or equivalent
(GE=C3)
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.
ARAB 204. Intermediate Arabic IV. 4 Units.
Prerequisites: ARAB 203 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Graded credit/no credit.

ARAB 205. Intermediate Arabic V. 4 Units.
Prerequisites: ARAB 204 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Graded credit/no credit.

ARAB 210. Arabic Calligraphy. 2 Units.
Prerequisites: ARAB 102 or equivalent
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.

ARAB 211. Pronunciation Practice. 2 Units.
Prerequisites: ARAB 101 or consent of instructor
Traditional recitation methods to improve pronunciation and articulation of Arabic. May include poetry, passages from the Qur’an, and traditional songs.

ARAB 212. Arabic Composition. 4 Units.
Prerequisites: ARAB 103 or equivalent
Comprehensive review of the principles of Arabic grammar, emphasizing their application to composition.

ARAB 214. Conversation in Arabic. 4 Units.
Prerequisites: ARAB 103 or equivalent
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.

ARAB 216. Introduction to Arabic Literary Texts. 4 Units.
Prerequisites: ARAB 103 or equivalent
Techniques of literary study and analysis through readings from various Arab-speaking cultures. Emphasis on vocabulary development, expression and written comprehension.

ARAB 290. Arabic Literature in Translation. 4 Units.
Prerequisites: ARAB 103 or equivalent
Introduction to Arabic literature in English translation.

ARAB 295. Intermediate Assessment. 2 Units.
Prerequisites: 12 units of Arabic courses at the 200-level or equivalent
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 online assessment portfolios. Satisfactory completion is required for enrollment in all upper-division Arabic courses. Graded credit/no credit.

ARAB 301. Advanced Arabic I. 4 Units.
Prerequisites: ARAB 203 or equivalent
First course in an upper-level sequence in Arabic. Develops students’ oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 302. Advanced Arabic II. 4 Units.
Prerequisites: ARAB 301 or equivalent
Second course in an upper-level sequence in Arabic. Develops students’ oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 303. Advanced Arabic III. 4 Units.
Prerequisites: ARAB 302 or equivalent
Third course in an upper-level sequence in Arabic. Develops students’ oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 304. Advanced Arabic IV. 4 Units.
Prerequisites: ARAB 303 or consent of instructor
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.

ARAB 305. Advanced Arabic V. 4 Units.
Prerequisites: ARAB 304 or consent of instructor
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.

ARAB 312. Advanced Arabic Composition. 4 Units.
Prerequisites: ARAB 212 or consent of instructor
Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary.

ARAB 314. Advanced Arabic Conversation. 4 Units.
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.

ARAB 316. Arabic for the Professions. 4 Units.
Oral and written practice in Arabic terminology used in various professions, with emphasis on cultural context.

ARAB 320. Arabic Phonetics. 4 Units.
Prerequisites: ARAB 295 or consent of instructor
In-depth study of the Arabic sound system. Oral practice and study of general principles of Arabic phonology and dialectology.

ARAB 321. Introduction to Arabic Linguistics. 4 Units.
Prerequisites: ARAB 103 or consent of instructor
The structure of Arabic; morphology, syntax and phonology including the historical development of the language and dialect variations.

ARAB 330. Levantine Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Levantine Arabic. Emphasis will be on functional interactive skills, such as speaking, listening comprehension and vocabulary building while enhancing students cultural competence. May be repeated up to three times for credit.
ARAB 331. Egyptian Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Egyptian Arabic. Emphasis will be on functional interactive skills, such as speaking, listening comprehension and vocabulary building while enhancing students cultural competence. May be repeated up to three times for credit.

ARAB 332. NORTH AFRICAN ARABIC DIALECT. 4 Units.
Increased student proficiency in the spoken variety of North African Arabic. Emphasis will be on functional interactive skills, such as speaking, listening comprehension and vocabulary building while enhancing students cultural competence. May be repeated up to three times for credit.

ARAB 333. Gulf Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Gulf Arabic. Emphasis will be on functional interactive skills, such as speaking, listening comprehension and vocabulary building while enhancing students cultural competence. May be repeated up to three times for credit.

ARAB 370. Arabic Film and Culture. 4 Units.
Analysis and historical examination of Arabic cultures, literatures, and themes through Arabic-language films.

ARAB 380. Classical Arabic Literature in Translation. 4 Units.
Introduction to the literature of the pre-Islamic, early Islamic, Umayyad and Abbasid periods. Including the development of classical Arabic poetry and prose, its artistic characteristics and its most important genres while examining the historical, religious, political and sociological contexts.

ARAB 381. Cultures and Writings of Arab-American Women. 4 Units.
Examination of the history and lives of Arab American women through their own writings and essays.

ARAB 399A. Community Service Project. 1 Unit.
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 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.

ARAB 399B. Community Service Project. 2 Units.
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 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.

ARAB 401. Fourth Year Arabic I. 4 Units.
Prerequisites: ARAB 303 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 402. Fourth Year Arabic II. 4 Units.
Prerequisites: ARAB 401 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 403. Fourth Year Arabic III. 4 Units.
Prerequisites: ARAB 402 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 404. Fourth Year Arabic IV. 4 Units.
Prerequisites: ARAB 403 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 405. Fourth Year Arabic V. 4 Units.
Prerequisites: ARAB 404 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 470A. Contemporary Issues in Arab Culture: Emerging Architecture. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470B. Contemporary Issues in Arab Culture: Arab-American Experience. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470C. Contemporary Issues in Arab Culture: Health Care Systems. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470D. Contemporary Issues in Arab Culture: Environmental Aspects. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470E. Contemporary Issues in Arab Culture: Emerging Economies. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 471. Media in the Arab World. 4 Units.
Prerequisites: ARAB 301 or equivalent or consent of instructor
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.

ARAB 480. Special Topics in Classical Islamic Texts. 4 Units.
Prerequisites: ARAB 303 or ARAB 312 or consent of instructor
Study, readings and discussion of a wide variety of classical Islamic texts such as the Qur'an, Tafsir (exegesis), Fiqh (jurisprudence), historiography, and philosophy. May be repeated as topics change.
ARAB 481. Special Topics in Contemporary Arabic Literature. 4 Units.
Prerequisites: ARAB 303, 312 or consent of instructor
Special topics in contemporary Arabic literatures such as novels, poetry, essays and drama. May be repeated for credit as topics change.

ARAB 496. Senior Assessment. 2 Units.
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 online oral and written assessment as well as online portfolios. 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.

ARAB 575A. Internship. 1 Unit.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575B. Internship. 2 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575C. Internship. 3 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575D. Internship. 4 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

Chinese Courses

CHIN 101. College Chinese I. 4 Units.
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.

CHIN 102. College Chinese II. 4 Units.
Prerequisites: MAND 101 or consent of department
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.

CHIN 103. College Chinese III. 4 Units.
Prerequisites: CHIN 102 or consent of department
(GE=C3)
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.

CHIN 170. Beginning Chinese Conversation. 2 Units.
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.

CHIN 201. Second Year College Chinese I. 4 Units.
(GE=C3)
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.

CHIN 202. Second Year College Chinese II. 4 Units.
(GE=C3)
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.

CHIN 203. Second Year College Chinese III. 4 Units.
(GE=C3)
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.

CHIN 210. Chinese Calligraphy. 4 Units.
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.

CHIN 214. Conversation in Chinese. 4 Units.
Prerequisites: CHIN 103 or equivalent
(GE=C3)
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.

CHIN 290. Chinese Literature in Translation. 4 Units.
Introduction to Chinese literature read in English translation. Selection of writers and genres from classical and contemporary Chinese literature. Formerly MAND 290.

Foreign Language Courses

FLAN 100. English as a Second Language. 4 Units.
Prerequisites: consent of instructor
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.

FLAN 101C. Language Study I: Italian. 4 Units.
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.
FLAN 101D. Language Study I: Portuguese. 4 Units.
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.

FLAN 101E. Language Study I: Greek. 4 Units.
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.

FLAN 101F. Language Study I: Latin. 4 Units.
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.

FLAN 101G. Language Study I: Russian. 4 Units.
Russian. 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.

FLAN 101H. Language Study I: Turkish. 4 Units.
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.

FLAN 101L. Language Study I: Vietnamese. 4 Units.
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.

FLAN 101Q. Language Study I: Luiseño. 4 Units.
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.

FLAN 101R. Language Study I: Cahuilla. 4 Units.
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.

FLAN 101S. Language Study I: Serrano. 4 Units.
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.

FLAN 101T. Language Study I: Cupeño. 4 Units.
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.

FLAN 101U. Language Study I: Nahuatl. 4 Units.
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.

FLAN 102C. Language Study II: Italian. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102D. Language Study II: Portuguese. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102E. Language Study II: Greek. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.
FLAN 102F. Language Study II: Latin. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102G. Language Study II: Russian. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102H. Language Study II: Turkish. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102L. Language Study II: Vietnamese. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102M. Language Study II: Hebrew. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102N. Language Study II: Hindi. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102O. Language Study II: Tagalog. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102P. Language Study II: Luiseño. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102Q. Language Study II: Cahuilla. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102R. Language Study II: Serrano. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102S. Language Study II: Nahuatl. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 102T. Language Study II: Cupeño. 4 Units.
Prerequisites: FLAN 101 in the chosen language
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.

FLAN 103C. Language Study III: Italian. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103D. Language Study III: Portuguese. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103E. Language Study III: Greek. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.
FLAN 103F. Language Study III: Latin. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103G. Language Study III: Russian. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103H. Language Study III: Turkish. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103L. Language Study III: Vietnamese. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103M. Language Study III: Hebrew. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103N. Language Study III: Hindi. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103O. Language Study III: Tagalog. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103Q. Language Study III: Luiseño. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103R. Language Study III: Cahuilla. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103S. Language Study III: Serrano. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103T. Language Study III: Cupeño. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.

FLAN 103U. Language Study III: Nahuatl. 4 Units.
Prerequisites: two years of high school study in the chosen language or equivalent
(GE=C3)
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.
FLAN 111C. Directed Language Study I:
Italian. 4 Units.
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.

FLAN 111G. Directed Language Study I:
Russian. 4 Units.
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.

FLAN 111H. Directed Language Study I:
Turkish. 4 Units.
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.

FLAN 111L. Directed Language Study I:
Vietnamese. 4 Units.
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.

FLAN 111M. Directed Language Study I:
Hebrew. 4 Units.
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.

4 Units.
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.

FLAN 112C. Directed Language Study II:
Italian. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 112G. Directed Language Study II:
Russian. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 112H. Directed Language Study II:
Turkish. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 112L. Directed Language Study II:
Vietnamese. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 112M. Directed Language Study II:
Hebrew. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 112N. Directed Language Study II:
Hindi. 4 Units.
Prerequisites: FLAN 111 or consent of instructor
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.

FLAN 113C. Directed Language Study III:
Italian. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.

FLAN 113G. Directed Language Study III:
Russian. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.

FLAN 113H. Directed Language Study III:
Turkish. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.

FLAN 113L. Directed Language Study III:
Vietnamese. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.

FLAN 113M. Directed Language Study III:
Hebrew. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.

FLAN 113N. Directed Language Study III:
Hindi. 4 Units.
Prerequisites: FLAN 112 or consent of instructor
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.
FLAN 114C. Directed Language Study IV: Italian. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 114G. Directed Language Study IV: Russian. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 114H. Directed Language Study IV: Turkish. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 114L. Directed Language Study IV: Vietnamese. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 114M. Directed Language Study: Hebrew. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 114N. Directed Language Study IV: Hindi. 4 Units.
Prerequisites: FLAN 113 or consent of department
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. Formerly FLAN 211.

FLAN 115C. Directed Language Study V: Italian. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 115G. Directed Language Study V: Russian. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 115H. Directed Language Study V: Turkish. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 115L. Directed Language Study V: Vietnamese. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 115M. Directed Language Study V: Hebrew. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 115N. Directed Language Study V: Hindi. 4 Units.
Prerequisites: FLAN 114 or consent of department
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. Formerly FLAN 212.

FLAN 170C. Beginning Conversation: Italian. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170D. Beginning Conversation: Portuguese. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170E. Beginning Conversation: Greek. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.
FLAN 170F. Beginning Conversation: Latin. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170G. Beginning Conversation: Russian. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170H. Beginning Conversation: Turkish. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170L. Beginning Conversation: Vietnamese. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170M. Beginning Conversation: Hebrew. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170N. Beginning Conversation: Hindi. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 170P. Beginning Conversation: Persian. 2 Units.
Practice of oral language with emphasis on familiar surroundings, immediate needs and basic survival skills. Graded credit/no credit. May be repeated up to three times for credit.

FLAN 201C. Second Year Language Study I: Italian. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201D. Second Year Language Study I: Portuguese. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201E. Second Year Language Study I: Greek. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201F. Second Year Language Study I: Latin. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201G. Second Year Language Study I: Russian. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201H. Second Year Language Study I: Turkish. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201L. Second Year Language Study I: Vietnamese. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201M. Second Year Language Study I: Hebrew. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201N. Second Year Language Study I: Hindi. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201O. Second Year Language Study I: Tagalog. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201Q. Second Year Language Study I: Luiseño. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201R. Second Year Language Study I: Cahuilla. 4 Units.
Prerequisites: FLAN 103 or consent of department (GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.
FLAN 201S. Second Year Language Study I: Serrano. 4 Units.
Prerequisites: FLAN 103 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201T. Second Year Language Study I: Cupeño. 4 Units.
Prerequisites: FLAN 103 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 201U. Second Year Language Study I: Nahuatl. 4 Units.
Prerequisites: FLAN 103 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202C. Second Year Language Study II: Italian. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202D. Second Year Language Study II: Portuguese. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202E. Second Year Language Study II: Greek. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202F. Second Year Language Study II: Latin. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202G. Second Year Language Study II: Russian. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202H. Second Year Language Study II: Turkish. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202L. Second Year Language Study II: Vietnamese. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202M. Second Year Language Study II: Hebrew. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202N. Second Year Language Study II: Hindi. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202O. Second Year Language Study II: Tagalog. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202Q. Second Year Language Study II: Luiseño. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202R. Second Year Language Study II: Cahuilla. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.

FLAN 202S. Second Year Language Study II: Serrano. 4 Units.
Prerequisites: FLAN 201 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis.
FLAN 203C. Second Year Language Study III: Italian. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203D. Second Year Language Study III: Portuguese. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203E. Second Year Language Study III: Greek. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203F. Second Year Language Study III: Latin. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203G. Second Year Language Study III: Russian. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203H. Second Year Language Study III: Turkish. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203I. Second Year Language Study III: Vietnamese. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203J. Second Year Language Study III: Hebrew. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203K. Second Year Language Study III: Hindi. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203L. Second Year Language Study III: Tagalog. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203M. Second Year Language Study III: Persian. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203N. Second Year Language Study III: Luiseño. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203O. Second Year Language Study III: Cahuilla. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203P. Second Year Language Study III: Serrano. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203Q. Second Year Language Study III: Cupeño. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 203R. Second Year Language Study III: Nahuatl. 4 Units.
Prerequisites: FLAN 202 or consent of department
(GE=C3)
Further study of the language to develop proficiency in listening, speaking,
reading, and writing with cultural emphasis.

FLAN 221C. Second Year Directed Language Study I: Italian. 4 Units.
Prerequisites: FLAN 115 or consent of department
Involves textbook, online and multimedia materials for self-instruction,
as well as weekly conversation practice with a native speaker. Formerly
FLAN 213.
FLAN 221G. Second Year Directed Language
Study I: Russian. 4 Units.
Prerequisites: FLAN 115 or consent of department
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. Formerly
FLAN 213.

FLAN 221H. Second Year Directed Language
Study I: Turkish. 4 Units.
Prerequisites: FLAN 115 or consent of department
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. Formerly
FLAN 213.

FLAN 221L. Second Year Directed Language
Study I: Vietnamese. 4 Units.
Prerequisites: FLAN 115 or consent of department
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. Formerly
FLAN 213.

FLAN 221M. Second Year Directed Language
Study I: Hebrew. 4 Units.
Prerequisites: FLAN 115 or consent of department
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. Formerly
FLAN 213.

FLAN 221N. Second Year Directed Language
Study I: Hindi. 4 Units.
Prerequisites: FLAN 115 or consent of department
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. Formerly
FLAN 213.

FLAN 222C. Second Year Directed Language
Studies II: Italian. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 222G. Second Year Directed Language
Studies II: Russian. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 222H. Second Year Directed Language
Studies II: Turkish. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 222L. Second Year Directed Language
Studies II: Vietnamese. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 222M. Second Year Directed Language
Studies II: Hebrew. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 222N. Second Year Directed Language
Studies II: Hindi. 4 Units.
Prerequisites: FLAN 221 or consent of department
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.

FLAN 223C. Second Year Directed Language
Studies III: Italian. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.

FLAN 223G. Second Year Directed Language
Studies III: Russian. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.

FLAN 223H. Second Year Directed Language
Studies III: Turkish. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.

FLAN 223L. Second Year Directed Language
Studies III: Vietnamese. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.

FLAN 223M. Second Year Directed Language
Studies III: Hebrew. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.

FLAN 223N. Second Year Directed Language
Studies III: Hindi. 4 Units.
Prerequisites: FLAN 222 or consent of department
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.
FLAN 224C. Second Year Directed Language Studies IV: Italian. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 224G. Second Year Directed Language Studies IV: Russian. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 224H. Second Year Directed Language Studies IV: Turkish. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 224L. Second Year Directed Language Studies IV: Vietnamese. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 224M. Second Year Directed Language Studies IV: Hebrew. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 224N. Second Year Directed Language Studies IV: Hindi. 4 Units.
Prerequisites: FLAN 223 or consent of department
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.

FLAN 225C. Second Year Directed Language Studies V: Italian. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 225G. Second Year Directed Language Studies V: Russian. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 225H. Second Year Directed Language Studies V: Turkish. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 225L. Second Year Directed Language Studies V: Vietnamese. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 225M. Second Year Directed Language Studies V: Hebrew. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 225N. Second Year Directed Language Studies V: Hindi. 4 Units.
Prerequisites: FLAN 224 or consent of department
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.

FLAN 270C. Conversation: Italian. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270D. Conversation: Portuguese. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270E. Conversation: Greek. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270F. Conversation: Latin. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270G. Conversation: Russian. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270H. Conversation: Turkish. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.
FLAN 270L. Conversation: Vietnamese. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270M. Conversation: Hebrew. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270N. Conversation: Hindi. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270O. Conversation: Tagalog. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 270P. Conversation: Persian. 2 Units.
Practice of oral language including current topics, panel discussions, debates and presentations. Students will become familiar with day-to-day social expressions. Graded Credit/No Credit. May be repeated up to three times for credit.

FLAN 301C. Third Year Language Study I: Italian. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301D. Third year Language Study I: Portuguese. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301E. Third Year Language Study I: Greek. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301F. Third Year Language Study I: Latin. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts. (4 units.)

FLAN 301G. Third Year Language Study I: Russian. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301H. Third Year language Study I: Turkish. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301L. Third Year Language Study I: Vietnamese. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301M. Third Year Language Study I: Hebrew. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301N. Third Year Language Study I: Hindi. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301O. Third Year Language Study I: Italian. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 301P. Third Year Language Study I: Persian. 4 Units.
Prerequisites: FLAN 203 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302C. Third Year Language Study II: Italian. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302D. Third Year Language Study II: Portuguese. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.
FLAN 302E. Third Year Language Study II: Greek. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302F. Third Year Language Study II: Latin. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302G. Third Year Language Study II: Russian. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302H. Third Year Language Study II: Turkish. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302L. Third Year Language Study II: Vietnamese. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302M. Third Year Language Study II: Hebrew. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 302P. Third Year Language Study II: Persian. 4 Units.
Prerequisites: FLAN 301 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303C. Third Year Language Study III: Italian. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303D. Third Year Language Study III: Portuguese. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303E. Third Year Language Study III: Greek. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303F. Third Year Language Study III: Latin. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303G. Third Year Language Study III: Russian. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303H. Third Year Language Study III: Turkish. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303L. Third Year Language Study III: Vietnamese. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303M. Third Year Language Study III: Hebrew. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303N. Third Year Language Study III: Hindi. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 303O. Third Year Language Study III: Tagalog. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.
FLAN 303P. Third Year Language Study III: Persian. 4 Units.
Prerequisites: FLAN 302 or consent of department
Continued study of the language to develop proficiency. Focus on authentic texts from target cultures, as well as academic and professional contexts.

FLAN 312. Pedagogies for Foreign Language Teaching. 4 Units.
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.

FLAN 320. Masterpieces of Literature. 4 Units.
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.

FLAN 350. Language Acquisition and Early Field Experience for Future Teachers. 4 Units.
Prerequisites: junior standing or consent of instructor
Theories of language acquisition, including supervised observation of the public school classroom. Taught in English for all prospective single-subject teachers in the department.

FLAN 394A. Practicum in Service-Learning: Dramatic Production. 2 Units.
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. Permission of Department required.

FLAN 394B. Practicum in Service-Learning: Student/Faculty Journal. 2 Units.
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. Permission of Department required.

FLAN 394C. Practicum in Service-Learning: Tutoring Center. 2 Units.
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. Permission of Department required.

FLAN 394D. Practicum in Service Learning: Media Center Service. 2 Units.
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. Permission of Department required.

FLAN 394E. Practicum in Service-Learning: Writing Center. 2 Units.
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. Permission of Department required.

FLAN 399B. Community Service Project. 2 Units.
Prerequisites: consent of department
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.

FLAN 400. Readings in the Disciplines. 1 Unit.
Prerequisites: one 300-level course in a target language and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken
Independent study of individual writers and genres.

FLAN 517C. Seminar in Hispanic Linguistics: Language in Society. 4 Units.
Prerequisites: SPAN 302, 395, 415, and 416
Advanced study of Spanish language and linguistics. May be repeated as topics change.

FLAN 555A. Independent Study. 1 Unit.
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
Independent study of individual writers and genres.

FLAN 555B. Independent Study. 2 Units.
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
Independent study of individual writers and genres.

FLAN 555C. Independent Study. 3 Units.
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
Independent study of individual writers and genres.

FLAN 555D. Independent Study. 4 Units.
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
Independent study of individual writers and genres.

French Courses

FREN 101. College French I. 4 Units.
Emphasizes listening and speaking, with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree.
FREN 102. College French II. 4 Units.
Prerequisites: FREN 101 or consent of department
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.

FREN 103. College French III. 4 Units.
Prerequisites: FREN 102 or consent of department (GE=C3)
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.

FREN 200. Culture and Communication. 4 Units.
Prerequisites: FREN 103 or equivalent (GE=C3)
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.

FREN 201. Culture and Communication II. 4 Units.
Prerequisites: FREN 150 or FREN 200 or consent of department (GE=C3)
Second-year course to build proficiency in listening, speaking, reading and writing while enhancing knowledge of French-speaking world. May not be taken for credit by students who have received credit for FREN 104 and FREN 212.

FREN 202. Culture and Communication III. 4 Units.
Prerequisites: FREN 201 or consent of department (GE=C3)
Second-year course to increase proficiency in listening, speaking, reading and writing while enhancing knowledge of the French-speaking world. Formerly FREN 214.

FREN 250. Reading and Interpretation. 4 Units.
Prerequisites: FREN 202 or consent of department
Concentration on reading and interpretive writing skills in preparation for upper-division coursework in French.

FREN 270B. Introduction to French Culture. 2 Units.
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.

FREN 270C. Introduction to French Culture. 3 Units.
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.

FREN 270D. Introduction to French Culture. 4 Units.
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.

FREN 275. Introduction to French Business Culture. 4 Units.
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.

FREN 290. French Literature in English. 4 Units.
(>C3)
Introduction to French literature read in English translation.

FREN 295. Intermediate Assessment. 2 Units.
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.

FREN 301. French for Reading I. 4 Units.
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.

FREN 302. French for Reading II. 4 Units.
Building on the French reading skills of FREN 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.

FREN 303. Contemporary Spoken French. 4 Units.
Prerequisites: FREN 202 or consent of department
Practice of contemporary spoken French through the reading and discussion of current topics in the French-speaking world. Formerly FREN 340.

FREN 307. Phonetics. 4 Units.
Prerequisites: FREN 202 or consent of department
In-depth study of the French sound system. Oral practice and study of general principles of French phonology and dialectology. Formerly FREN 306.

FREN 310. Approaches to Literature. 4 Units.
Prerequisites: FREN 295 or consent of department. FREN 350 strongly recommended
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).
FREN 321. French for Translation I. 4 Units.
Prerequisites: FREN 202 and 295 or consent of department
Techniques of translation with extensive practice from French into English and English into French.

FREN 322. French for Translation II. 4 Units.
Prerequisites: FREN 321 or consent of department
Advanced translation techniques and practice across disciplines from French into English and English into French.

FREN 323. Commercial Translation. 4 Units.
Prerequisites: FREN 321 and 322 or consent of department
Methods and techniques for translating business-related texts from French into English and English to French.

FREN 324. Technical Translation. 2 Units.
Prerequisites: FREN 321 and 322 or consent of department
Extensive practice in translating texts from a variety of technical and scientific disciplines from French into English and from English into French.

FREN 336. Francophone Women Writers. 4 Units.
Prerequisites: FREN 295; and 250 or 310; or consent of instructor
Exploration of selected works by Francophone women writers, with emphasis on issues in women's lives.

FREN 350. Advanced French Composition. 4 Units.
Prerequisites: FREN 295 or consent of department
Improvement of written expression in a variety of genres, including narrative, correspondence, summaries and research reports. Frequent writing required. Course may be repeated once for credit. Formerly FREN 302.

FREN 360. Contemporary French Fiction. 4 Units.
Prerequisites: FREN 295; and 250 or 310; or consent of instructor
Exploration of fictional works by Francophone authors published since 1980. Particular attention will focus on how contemporary issues are revealed through these novels.

FREN 370. Francophone Film and Culture. 4 Units.
Prerequisites: FREN 295; and FREN 250 or 310; or consent of instructor
Analysis and historical examination of Francophone cultures, literatures and themes through French-language films.

FREN 381. French Civilization I. 4 Units.
Prerequisites: FREN 295 or consent of department
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.

FREN 382. French Civilization II. 4 Units.
Prerequisites: FREN 250 and 295 or consent of department
Explores the national identity of the French people as reflected in the arts and social and political institutions in the nineteenth and twentieth centuries.

FREN 382. French Civilization II. 4 Units.
Prerequisites: FREN 250 and 295 or consent of department
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.

FREN 408. Introduction to French Advertising. 4 Units.
Prerequisites: FREN 303 or 350 or consent of department
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.

FREN 409. Business French. 4 Units.
Prerequisites: FREN 303 or FREN 350 or consent of department. FREN 409 and FREN 410 prepare students to take the Certificate of the Paris Chamber of Commerce and Industry exam (DFA-1)
Introduction to commercial vocabulary, business practices, and socioeconomic issues in French-speaking contexts.

FREN 410. Business French Case Studies. 4 Units.
Prerequisites: FREN 303 or 350 or consent of department. FREN 409 and FREN 410 highly recommended. FREN 409 and FREN 410 prepare students to take the Certificate of the Paris Chamber of Commerce and Industry exam (DFA-1)
Analysis of Francophone and cross-cultural business behavior through case studies and problem-solving.

FREN 411. Studies in the Novel. 4 Units.
Prerequisites: FREN 295 and FREN 310 or consent of department. FREN 350 strongly recommended
Analysis of major novels written in French from various periods and Francophone cultures.

FREN 412. Studies in Theater. 4 Units.
Prerequisites: FREN 295 and 310 or consent of department. FREN 350 strongly recommended
Reading and discussion of representative dramatic works written in French from the seventeenth to the twentieth century.
FREN 413. Studies in Poetry. 4 Units.
Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended
Introduction to poetry as a genre, principles of French versification. Major contributions of Francophone poets.

FREN 420. Special Topics in French Literature. 4 Units.
Prerequisites: FREN 295 and 310 or consent of department. FREN 350 strongly recommended
Critical examination of selected works in Francophone literature focusing on a particular theme or literary movement. May be repeated for credit as topics change.

FREN 450. Advanced Grammar Review. 4 Units.
Prerequisites: FREN 295 and FREN 350 or consent of department
An intensive review of advanced French grammar, including vocabulary building, proficiency in the written and spoken language.

FREN 460. Contemporary France. 4 Units.
Prerequisites: FREN 295; and FREN 250 or FREN 310; and FREN 382; or consent of department
Focus on society, politics and institutions of the Fifth Republic.

FREN 461. Contemporary Issues in the Francophone World. 4 Units.
Prerequisites: FREN 295 or consent of department. FREN 350 strongly recommended
Issues affecting the contemporary Francophone world, such as colonialism, regionalism, women’s issues, intellectual movements, education and the arts.

FREN 470B. Special Topics in Francophone Cultures. 2 Units.
Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor
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.

FREN 470D. Special Topics in Francophone Cultures. 4 Units.
Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor
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.

FREN 471. Culture and Identity. 4 Units.
Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor
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.

FREN 496. Senior Assessment. 2 Units.
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.

FREN 500. Advanced Performance Assessment. 2 Units.
Corequisites: FREN 496
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.

FREN 514. Seminar in French Language, Literature or Civilization. 4 Units.
Prerequisites: one 400-level French course
Advanced study of a single author, a literary movement, linguistics or civilization. May be repeated for credit as topics change.

FREN 575A. Internship. 1 Unit.
Prerequisites: FREN 250 and FREN 295, and consent of department
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.

FREN 575B. Internship. 2 Units.
Prerequisites: FREN 295, and consent of department
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.

FREN 575C. Internship. 3 Units.
Prerequisites: FREN 295, and consent of department
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.

FREN 575D. Internship. 4 Units.
Prerequisites: FREN 295, and consent of department
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.
German Courses

GER 101. College German I. 4 Units.
Fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German.

GER 102. College German II. 4 Units.
Further study of the fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. Continuation of GER 101.

GER 103. College German III. 4 Units.
Prerequisites: two years of high school German or equivalent (GE=C3)
Emphasis on oral and written competency at the intermediate level in a cultural context. Formerly GER 150.

GER 212. Composition. 4 Units.
Prerequisites: GER 103 or equivalent (GE=C3)
Comprehensive review of the principles of German grammar, emphasizing their application to composition.

GER 214. Conversation. 4 Units.
Prerequisites: GER 103 or equivalent (GE=C3)
Practice of oral German stressing the discussion of current topics, panel discussions, debates, short talks and skits.

GER 216. Introduction to Literary Texts. 4 Units.
Prerequisites: GER 103 or equivalent (GE=C3)
Techniques of literary study and analysis. Vocabulary development.

GER 218. Culture. 4 Units.
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.

GER 290. German Literature in English. 4 Units.
(GE=C3)
Introduction to German literature read in English translation.

GER 308. Readings in German Literature. 4 Units.
Prerequisites: one of the following: GER 212, 214, 216 or consent of instructor
Selected literary genre or writer. May be repeated for credit as topics change.

GER 309. Advanced German Composition. 4 Units.
Prerequisites: GER 212 or 216 or consent of instructor
Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing.

GER 310. Advanced German Conversation. 4 Units.
Prerequisites: GER 214 or consent of instructor
Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals.

GER 311. Survey of German Literature. 4 Units.
Prerequisites: GER 212, 214, 216 or consent of instructor
Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures.

GER 312. Business German. 4 Units.
Prerequisites: GER 212 or 216 or consent of instructor
Practice in writing German business letters and translation from German to English of materials useful in business, politics and tourism.

GER 313. Technical and Scientific Translation. 4 Units.
Prerequisites: GER 212 or 216 or consent of instructor
Translation from German to English of technical and scientific material.

GER 399A. Community Service Project. 1 Unit.
Prerequisites: consent of department
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.

GER 399B. Community Service Project. 2 Units.
Prerequisites: consent of department
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.

Japanese Courses

JAPN 101. College Japanese I. 4 Units.
Introduction to beginning level Japanese, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. Formerly a topic under FLAN 101.

JAPN 102. College Japanese II. 4 Units.
Prerequisites: JAPN 101 or consent of department
Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Formerly a topic under FLAN 102.

JAPN 103. College Japanese III. 4 Units.
Prerequisites: JAPN 102 or consent of department (GE=C3)
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.
JAPN 170. Beginning Japanese Conversation. 2 Units.
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.

JAPN 201. Second Year College Japanese I. 4 Units.
Prerequisites: JAPN 103 or consent of department (GE=C3)
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.

JAPN 202. Second Year College Japanese II. 4 Units.
Prerequisites: JAPN 201 or consent of department (GE=C3)
Emphasis on the continued vocabulary and syntactic development of the language to attain proficiency in four language skills: listening, speaking, reading and writing.

JAPN 203. Second Year College Japanese III. 4 Units.
Prerequisites: JAPN 202 or consent of department (GE=C3)
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.

JAPN 210. Japanese Calligraphy. 2 Units.
Prerequisites: JAPN 102 or equivalent
Instruction to Japanese calligraphy, its history and its development. Learn proper techniques as well as stylistic elements of calligraphy. May be repeated once for a total of 4 units.

JAPN 214. Conversation in Japanese. 4 Units.
Prerequisites: JAPN 103 or equivalent (GE=C3)
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.

JAPN 275. Japanese Business Culture. 2 Units.

JAPN 290. Japanese Literature in Translation. 4 Units.
(GE=C3)
Introduction to Japanese literature read in English translation. Selection of writers and genres from classical and contemporary Japanese literature.

JAPN 301. Third-Year College Japanese. 4 Units.
Prerequisites: JAPN 203 or consent of department
First course in an upper-level sequence. Develops students’ oral and written Japanese language skills, as well as knowledge of Japanese culture.

JAPN 302. Third-Year College Japanese II. 4 Units.
Prerequisites: JAPN 301 or consent of department
Second course in an upper-level sequence. Develops students’ oral and written Japanese language skills, as well as knowledge of Japanese culture.

JAPN 303. Third-Year Japanese III. 4 Units.
Prerequisites: JAPN 302 or consent of department
Third course in an upper-level sequence in Japanese. Develops students’ oral and written language skills, as well as knowledge of Japanese culture.

JAPN 310. Introduction to Japanese Literature. 4 Units.
Prerequisites: JAPN 203 or consent of department
Techniques of literary study and analysis. Emphasis on vocabulary development, written expression and comprehension.

JAPN 314. Advanced Conversation. 4 Units.
Prerequisites: JAPN 203 or consent of department
Practice of contemporary spoken Japanese through the reading and discussion of current topics.

JAPN 315. Language in Japanese Society. 4 Units.
Prerequisites: JAPN 203 or consent of department
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.

JAPN 370. Analysis of Japanese Culture through the Study of Film. 4 Units.
Analysis of selected classical and contemporary Japanese films. Taught in English, students will watch Japanese films with English subtitles. Explores Japanese culture as well as significant directors and their unique use of photography, music, literature, and scripting.

JAPN 399A. Community Service Project. 1 Unit.
Prerequisites: consent of department
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.

JAPN 399B. Community Service Project. 2 Units.
Prerequisites: consent of department
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.
JAPN 409. Business Japanese. 4 Units.
Prerequisites: JAPN 303 or consent of department
Introduction to business vocabulary of practices and socioeconomic issues in Japanese-speaking contexts.

Korean Courses

KOR 101. College Korean I. 4 Units.
Introduction to beginning level Korean, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. Formerly FLAN 101K.

KOR 102. College Korean II. 4 Units.
Prerequisites: KOR 101 or consent of department
Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Formerly FLAN 102K.

KOR 103. College Korean III. 4 Units.
Prerequisites: KOR 102 or consent of department
(GE=C3)
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.

KOR 170. Beginning Korean Conversation. 2 Units.
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.

KOR 201. Second Year College Korean I. 4 Units.
Prerequisites: KOR 103 or consent of department
(GE=C3)
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.

KOR 202. Second Year College Korean II. 4 Units.
Prerequisites: KOR 201 or consent of department
(GE=C3)
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.

KOR 203. Second Year College Korean III. 4 Units.
Prerequisites: KOR 202 or consent of department
(GE=C3)
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.

KOR 214. Conversation in Korean. 4 Units.
Prerequisites: KOR 103 or consent of department
(GE=C3)
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.

Persian Courses

PERS 101. College Persian I. 4 Units.
Introduction Persian including fundamentals of grammatical structure, pronunciation and culture. Formerly a topic under FLAN 101.

PERS 102. College Persian II. 4 Units.
Prerequisites: PERS 101 or equivalent
Further study of the fundamentals of grammatical structure, pronunciation and culture. Emphasis in oral communication, reading and writing. Formerly a topic under FLAN 102.

PERS 103. College Persian III. 4 Units.
Prerequisites: PERS 102 or equivalent
Emphasis on oral communication and writing competencies at the intermediate level in a cultural context. Formerly a topic under FLAN 103.

PERS 201. Intermediate Persian I. 4 Units.
Prerequisites: PERS 103 or equivalent
(GE=C3)
First course in an intermediate-level sequence in Persian. Develops students oral and written Persian language skills, as well as knowledge of Persian-speaking cultures.

PERS 202. Intermediate Persian II. 4 Units.
Prerequisites: PERS 201 or equivalent
(GE=C3)
Second course in an intermediate-level sequence in Persian. Develops students oral and written Persian language skills, as well as knowledge of Persian-speaking cultures. (4 units.

PERS 290. Persian Literature in Translation. 4 Units.
Introduction to Persian literature in English translation.

Spanish Courses

SPAN 101. College Spanish I. 4 Units.
Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details.

SPAN 102. College Spanish II. 4 Units.
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.
SPAN 103. College Spanish III. 4 Units.  
(GE=C3)  
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.

SPAN 201. Intermediate Spanish I. 4 Units.  
Prerequisites: SPAN 103 or equivalent  
First course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 202. Intermediate Spanish II. 4 Units.  
Prerequisites: SPAN 201 or equivalent  
(GE=C3)  
Second course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 203. Intermediate Spanish III. 4 Units.  
Prerequisites: SPAN 202 or equivalent  
(GE=C3)  
Third course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 214. Conversation. 4 Units.  
Prerequisites: SPAN 103 or equivalent  
(GE=C3)  
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).

SPAN 290. Spanish and Latin American Literature in English. 4 Units.  
(GE=C3)  
Introduction to Hispanic literature read in English translation.

SPAN 295. Intermediate Skills Assessment. 1 Unit.  
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.

SPAN 302. Theory and Practice in Composition. 4 Units.  
Prerequisites: SPAN 203 and SPAN 295 or equivalent  
Extensive practice in composition and style. Graded A, B, C no credit.

SPAN 312A. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.  
Prerequisites: SPAN 302 and 395  
Public Services. Oral and written practice and methods of translation from Spanish to English and English to Spanish. May be repeated as topics change.

SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.  
Prerequisites: SPAN 302 and SPAN 395  
Law. Oral and written practice and methods of translation from Spanish to English and English to Spanish. May be repeated as topics change.

SPAN 312C. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.  
Prerequisites: SPAN 302 and 395  
First course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 312D. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.  
Prerequisites: SPAN 302 and 395  
Second course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 312E. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.  
Prerequisites: SPAN 302 and 395  
Third course in an intermediate-level sequence in Spanish. Develops students’ oral and written Spanish language skills, as well as knowledge of cultures.

SPAN 314. Advanced Conversation. 4 Units.  
Prerequisites: SPAN 302 and SPAN 395  
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).

SPAN 316A. Spanish for the Professions: Communications. 4 Units.  
Prerequisites: SPAN 302 and SPAN 395  
Oral and written practice in terminology used in various professions. May be repeated as topics change.

SPAN 316B. Spanish for the Professions: Health Science. 4 Units.  
Prerequisites: SPAN 302 and SPAN 395  
Oral and written practice in terminology used in various professions. May be repeated as topics change.

SPAN 316C. Spanish for the Professions: Education. 4 Units.  
Prerequisites: SPAN 302 and 395  
Oral and written practice in terminology used in various professions. May be repeated as topics change.

SPAN 316D. Spanish for the Professions: Business. 4 Units.  
Prerequisites: SPAN 302 and 395  
Oral and written practice in terminology used in various professions. May be repeated as topics change.

SPAN 316E. Spanish for the Professions: Law Enforcement. 4 Units.  
Prerequisites: SPAN 302 and 395  
Oral and written practice in terminology used in various professions. May be repeated as topics change.

SPAN 318. Techniques of Literary Study and Analysis. 4 Units.  
Prerequisites: SPAN 302 and SPAN 395  
Techniques of literary study and analysis through readings from Spanish and Latin American literature. Formerly SPAN 216.
SPAN 320. Special Problems in Spanish Grammar. 4 Units.
Prerequisites: SPAN 212, 302 and 395
Intensive study of selected grammatical problems in Spanish. Three hours lecture and two hours laboratory.

SPAN 321. Spanish in the United States. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 322. Origin and Contemporary Role of Hispanic Dialects. 4 Units.
Prerequisites: SPAN 302 and 395
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.

SPAN 370. Literature of the Conquest. 4 Units.
Prerequisites: SPAN 302, SPAN 318 and SPAN 395
Readings from Latin American literature from the fifteenth through the seventeenth centuries.

SPAN 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century. 4 Units.
Prerequisites: SPAN 302, 318 and 395
Readings from the origins of Spanish literature through the Golden Age.

SPAN 372. Modern Peninsular Literature. 4 Units.
Prerequisites: SPAN 302, SPAN 318, and SPAN 395
Readings in Spanish peninsular literature from the eighteenth century to the present.

SPAN 373. Modern Latin American Literature. 4 Units.
Prerequisites: SPAN 302, SPAN 318, and SPAN 395
Readings in Latin American literature from the eighteenth century to the present. Formerly SPAN 392.

SPAN 394A. Practicum: Dramatic Production. 2 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 394B. Practicum: Student/Faculty Journal. 2 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 394C. Practicum: Tutoring Center. 2 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 394D. Practicum: Media Center Service. 2 Units.
Prerequisites: SPAN 302 and SPAN 395
Media Center Service 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.

SPAN 394E. Practicum: Writing Center. 2 Units.
Prerequisites: SPAN 302 and 395
Writing Center 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.

SPAN 398A. Survey of Classical and Contemporary Hispanic Films from Spain. 4 Units.
Prerequisites: SPAN 302 and 395, or consent of instructor
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.

SPAN 398B. Survey of Classical and Contemporary Hispanic Films: Films from Latin America. 4 Units.
Prerequisites: SPAN 302 and 395, or consent of instructor
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.

SPAN 398C. Survey of Classical and Contemporary Hispanic Films: Classical and Contemporary Films from Spain, La. 4 Units.
Prerequisites: SPAN 302 and 395, or consent of instructor
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.

SPAN 398D. Survey of Classical and Contemporary Hispanic Films: Films from Spain and Latin America. 4 Units.
Prerequisites: SPAN 302 and 395, or consent of instructor
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.
SPAN 398E. Survey of Classical and Contemporary Hispanic Films: Significant Director or Theme of Hispanic Film. 4 Units.
Prerequisites: SPAN 302 and 395, or consent of instructor
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.

SPAN 399. Departmental Service Project. 1 Unit.
Prerequisites: SPAN 302 and SPAN 395 and consent of instructor
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.

SPAN 401. Phonetics. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 402. Advanced Composition. 4 Units.
Prerequisites: SPAN 302 with a grade of C or better and 395
Advanced expository writing in Spanish, including documented research reports and analytical papers. Revision and rewriting will be required. May be repeated for credit.

SPAN 410. Spanish Peninsular Civilization. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
Analysis of significant cultural aspects of Spanish civilization.

SPAN 412. Latin American Civilization. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
Analysis of significant cultural aspects of Latin American civilization.

SPAN 415. Comparative Linguistics: Spanish/English. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics. 4 Units.
Prerequisites: SPAN 302, SPAN 395 and SPAN 415
Semantics, pragmatics, and discourse in Spanish, with consideration of social factors in language use, variation and change.

SPAN 430. Creative Writing. 4 Units.
Prerequisites: SPAN 302, 395 and 402
Workshop in writing fiction and poetry, discussion of student writings, and exemplary works by established authors.

SPAN 435. Chicano Literature in Spanish. 4 Units.
Prerequisites: ability to read and write at the SPAN 103 or 155 level
Literary analysis of selected works by Chicano writers with a special emphasis on historical and contemporary issues.

SPAN 440. Mexican Literature. 4 Units.
Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series
Survey of the development of Mexican literature from 1520 to the present.

SPAN 442. Literature of the Southern Cone. 4 Units.
Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series
Survey of the literature of Argentina, Uruguay and Chile from the sixteenth century to the present.

SPAN 443. Literature of the Caribbean. 4 Units.
Prerequisites: SPAN 302, 318, 395 and one class from the 370 series
Survey of the literature of the Spanish-speaking Caribbean region from the sixteenth century to the present.

SPAN 445. The Narrative of Spanish America. 4 Units.
Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series
Survey of the narrative of Spanish America from the nineteenth century to the present.

SPAN 446. Literature of the Renaissance and the Spanish Golden Age. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395, and one class from the SPAN 370 series
Survey of Spanish peninsular literature from the fifteenth through the seventeenth century.

SPAN 447. Romanticism and Realism in Spain. 4 Units.
Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series
Survey of Spanish peninsular literature of the nineteenth century.

SPAN 448. Twentieth Century Spanish Literature. 4 Units.
Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series
Survey of contemporary Spanish fiction, poetry and essay.

SPAN 449. Literature of the Indigenous Peoples of Spanish America. 4 Units.
Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series
Survey of oral and written literature of selected indigenous peoples of Spanish America prior to 1492.
SPAN 496. Senior Assessment. 1 Unit.
Prerequisites: SPAN 395 and senior standing
Assessment of students oral and written proficiency in Spanish. Includes written exam based on the students 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.

SPAN 515A. Seminar in Spanish Peninsular Literature, Culture or Film: Prose Fiction. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515B. Seminar in Spanish Peninsular Literature, Culture or Film: Poetry. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515C. Seminar in Spanish Peninsular Literature, Culture or Film: Drama. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515D. Seminar in Spanish Peninsular Literature, Culture or Film: Essay. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515E. Seminar in Spanish Peninsular Literature, Culture or Film: Author. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515F. Seminar in Spanish Peninsular Literature, Culture or Film: Culture. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 515G. Seminar in Spanish Peninsular Literature, Culture or Film: Film. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spain. May be repeated as topics change.

SPAN 516A. Seminar in Spanish American Literature, Culture or Film: Prose Fiction. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516B. Seminar in Spanish American Literature, Culture or Film: Poetry. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516C. Seminar in Spanish American Literature, Culture or Film: Drama. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516D. Seminar in Spanish American Literature, Culture or Film: Essay. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516E. Seminar in Spanish American Literature, Culture or Film: Author. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516F. Seminar in Spanish American Literature, Culture or Film: Culture. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 516G. Seminar in Spanish American Literature, Culture or Film: Film. 4 Units.
Prerequisites: SPAN 302, SPAN 318, SPAN 395; one class from the SPAN 370 series; and one class from the SPAN 440 series
Advanced study of the literature and culture of Spanish America. May be repeated as topics change.

SPAN 517A. Seminar in Hispanic Linguistics: Grammar. 4 Units.
Prerequisites: SPAN 302, SPAN 395, SPAN 415, and SPAN 416
Advanced study of Spanish language and linguistics. May be repeated as topics change.

SPAN 517B. Seminar in Hispanic Linguistics: Dialectology. 4 Units.
Prerequisites: SPAN 302, 395, 415, and 416
Advanced study of Spanish language and linguistics. May be repeated as topics change.
SPAN 517C. Seminar in Hispanic Linguistics: Language in Society. 4 Units.
Prerequisites: SPAN 302, 395, 415, and 416
Advanced study of Spanish language and linguistics. May be repeated as topics change.

SPAN 517D. Seminar in Hispanic Linguistics: Teaching Methodology. 4 Units.
Prerequisites: SPAN 302, 395, 415, and 416
Advanced study of Spanish language and linguistics. May be repeated as topics change.

SPAN 575A. Internship in Service Learning. 1 Unit.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 575B. Internship in Service Learning. 2 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 575C. Internship in Service Learning. 3 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 575D. Internship in Service Learning. 4 Units.
Prerequisites: SPAN 302 and SPAN 395
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.

SPAN 575E. Internship in Service Learning. 5 Units.
Prerequisites: SPAN 302 and 395
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.

SPAN 606. Research Methods. 4 Units.
Prerequisites: graduate standing or consent of the graduate committee
Introduction to bibliography, research techniques, professional discourse styles, analysis and application of methods of contemporary literary theory and criticism. This course is a prerequisite to all 600-level courses in the M.A. in Spanish.

SPAN 608. History of the Spanish Language. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 612. Studies in Hispanic Cultures. 4 Units.
Prerequisites: graduate standing or consent of the graduate committee
Intensive study of significant cultural aspects of Spanish and Spanish-American cultures.

SPAN 615. Second Language Acquisition in Spanish. 4 Units.
Prerequisites: graduate standing, SPAN 320 or equivalent and SPAN 606; or consent of the graduate committee
Study and application of current techniques and approaches in second language acquisition, including outcomes assessment.

SPAN 620A. Spanish Linguistics. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Spanish Dialectology. Intensive study of contemporary issues in Spanish linguistics. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 620B. Spanish Linguistics. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Spanish in the United States. Intensive study of contemporary issues in Spanish linguistics. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 620C. Spanish Linguistics. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Seminar in Spanish Phonetics and Phonology. Intensive study of contemporary issues in Spanish linguistics. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 625A. Spanish Peninsular Literature and Culture: Prose Fiction. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.
SPAN 625B. Spanish Peninsular Literature and Culture: Poetry. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 625C. Spanish Peninsular Literature and Culture: Drama. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 625D. Spanish Peninsular Literature and Culture: Essay. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 625E. Spanish Peninsular Literature and Culture: Authors. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 625F. Spanish Peninsular Literature and Culture: Culture. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630A. Spanish-American Literature and Culture: Prose Fiction. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630B. Spanish-American Literature and Culture: Poetry. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630C. Spanish-American Literature and Culture: Drama. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630D. Spanish-American Literature and Culture: Essay. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630E. Spanish-American Literature and Culture: Author. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 630F. Spanish-American Literature and Culture: Latino Cultures. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish.

SPAN 650A. The Spanish Golden Age: Don Quixote. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 650B. The Spanish Golden Age: Drama. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 650C. The Spanish Golden Age: Prose. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish.
SPAN 650D. The Spanish Golden Age: Poetry.  4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 651A. Studies in Spanish American Literature: Colonial. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 651B. Studies in Spanish American Literature: Nineteenth Century. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 651C. Studies in Spanish American Literature: Twentieth Century. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 651D. Studies in Spanish American Literature: Contemporary Women Writers. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 651E. Studies in Spanish American Literature: Regional and Indigenous Literatures. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish.

SPAN 652A. Seminar in Spanish-American Civilization: Surrealism. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652B. Seminar in Spanish-American Civilization: Post-modernist Literature. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652C. Seminar in Spanish-American Civilization: African Influences in Literature. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652D. Seminar in Spanish-American Civilization: The Novel of the Dictator. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652E. Seminar in Spanish-American Civilization: The Neo-Picaresque Novel. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652F. Seminar in Spanish-American Civilization: Neo-Colonialism. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 652G. Seminar in Spanish-American Civilization: Contemporary Film. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 653. Contemporary Chicano/Latino Literature in Spanish. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
Intensive analysis of works by Chicano and Latino writers in Spanish in the United States.
SPAN 654A. Modern Spanish Peninsular Literature: Nineteenth Century. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 654B. Modern Spanish Peninsular Literature: Twentieth Century. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 654C. Modern Spanish Peninsular Literature: Contemporary Women Writers. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee
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.

SPAN 655A. Seminar in Applied Linguistics: Translation Techniques. 4 Units.
Prerequisites: SPAN 606, and graduate standing; or consent of the graduate committee
Study and discussion of current issues in Hispanic applied linguistics relevant to the following professions: Spanish teachers, translators, bilingual administrators, bilingual media specialist. A maximum of 12 units may be applied toward the M.A. in Spanish. 8 units may be repeated for credit as topics change.

SPAN 655B. Seminar in Applied Linguistics: Spanish for the Professions. 4 Units.
Prerequisites: SPAN 606, and graduate standing; or consent of the graduate committee
Study and discussion of current issues in Hispanic applied linguistics relevant to the following professions: Spanish teachers, translators, bilingual administrators, bilingual media specialist. A maximum of 12 units may be applied toward the M.A. in Spanish. 8 units may be repeated for credit as topics change.

SPAN 655C. Seminar in Applied Linguistics: Language and Media. 4 Units.
Prerequisites: SPAN 606, and graduate standing; or consent of the graduate committee
Study and discussion of current issues in Hispanic applied linguistics relevant to the following professions: Spanish teachers, translators, bilingual administrators, bilingual media specialist. A maximum of 12 units may be applied toward the M.A. in Spanish. 8 units may be repeated for credit as topics change.

SPAN 655D. Seminar in Applied Linguistics: Applied Spanish Grammar. 4 Units.
Prerequisites: SPAN 606, and graduate standing; or consent of the graduate committee
Study and discussion of current issues in Hispanic applied linguistics relevant to the following professions: Spanish teachers, translators, bilingual administrators, bilingual media specialist. A maximum of 12 units may be applied toward the M.A. in Spanish. 8 units may be repeated for credit as topics change.

SPAN 656. Seminar in Spanish Semantics and Pragmatics. 4 Units.
Prerequisites: graduate standing and SPAN 606, or consent of graduate committee
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.

SPAN 696. Graduate Portfolio. 2 Units.
Preparation and submission of a portfolio with appropriate reflective writing samples and experiences of Spanish language instruction at the college level. Includes a discussion of current instructional methodology for foreign languages and a field component consisting of observation and teaching of college level Spanish language classes. Graded credit/no credit.

SPAN 697. Comprehensive Examination. 1 Unit.
Prerequisites: must be taken in the last quarter before graduation
Written and oral examination covering Spanish linguistics, peninsular literature and culture, Spanish-American literature and culture, and Latino cultures in the United States. Examination is based on the core of required classes for the M.A. in Spanish as well as a reading list. Student must pass exam and any retests within one year of completion of the core and elective courses. Exam may be repeated once, and only the sections failed will be retested.

SPAN 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SPAN 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
SPAN 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program
graduate coordinator or, if an interdisciplinary studies major, consent of
the Dean of Graduate Studies
Independent study leading to completion of requirements (other than
course work) for the master’s degree. To retain classified standing in
the master’s program, a student must enroll in 698 each quarter until
the project or thesis is accepted or the comprehensive examination
passed. Students who enroll in 698 through the university have full use
of all university facilities. See Culminating Experience: Exam, Thesis, or
Project in Graduate Degree and Program Requirements section of the
Bulletin of Courses. 698 is a variable unit course, see fee schedule in the
Financial Information section of the Bulletin of Courses. Earned units are
not degree-applicable nor will they qualify for financial aid.

SPAN 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program
graduate coordinator or, if an interdisciplinary studies major, consent of
the Dean of Graduate Studies
Independent study leading to completion of requirements (other than
course work) for the master’s degree. To retain classified standing in
the master’s program, a student must enroll in 698 each quarter until
the project or thesis is accepted or the comprehensive examination
passed. Students who enroll in 698 through the university have full use
of all university facilities. See Culminating Experience: Exam, Thesis, or
Project in Graduate Degree and Program Requirements section of the
Bulletin of Courses. 698 is a variable unit course, see fee schedule in the
Financial Information section of the Bulletin of Courses. Earned units are
not degree-applicable nor will they qualify for financial aid.

SPAN 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program
graduate coordinator or, if an interdisciplinary studies major, consent of
the Dean of Graduate Studies
Independent study leading to completion of requirements (other than
course work) for the master’s degree. To retain classified standing in
the master’s program, a student must enroll in 698 each quarter until
the project or thesis is accepted or the comprehensive examination
passed. Students who enroll in 698 through the university have full use
of all university facilities. See Culminating Experience: Exam, Thesis, or
Project in Graduate Degree and Program Requirements section of the
Bulletin of Courses. 698 is a variable unit course, see fee schedule in the
Financial Information section of the Bulletin of Courses. Earned units are
not degree-applicable nor will they qualify for financial aid.

SPAN 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program
graduate coordinator or, if an interdisciplinary studies major, consent of
the Dean of Graduate Studies
Independent study leading to completion of requirements (other than
course work) for the master’s degree. To retain classified standing in
the master’s program, a student must enroll in 698 each quarter until
the project or thesis is accepted or the comprehensive examination
passed. Students who enroll in 698 through the university have full use
of all university facilities. See Culminating Experience: Exam, Thesis, or
Project in Graduate Degree and Program Requirements section of the
Bulletin of Courses. 698 is a variable unit course, see fee schedule in the
Financial Information section of the Bulletin of Courses. Earned units are
not degree-applicable nor will they qualify for financial aid.

SPAN 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program
graduate coordinator or, if an interdisciplinary studies major, consent of
the Dean of Graduate Studies
Independent study leading to completion of requirements (other than
course work) for the master’s degree. To retain classified standing in
the master’s program, a student must enroll in 698 each quarter until
the project or thesis is accepted or the comprehensive examination
passed. Students who enroll in 698 through the university have full use
of all university facilities. See Culminating Experience: Exam, Thesis, or
Project in Graduate Degree and Program Requirements section of the
Bulletin of Courses. 698 is a variable unit course, see fee schedule in the
Financial Information section of the Bulletin of Courses. Earned units are
not degree-applicable nor will they qualify for financial aid.

Bachelor of Arts in Arabic Language, Literature, and Culture
Requirements (70 units)
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)
Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 201</td>
<td>Intermediate Arabic I</td>
</tr>
<tr>
<td>ARAB 202</td>
<td>Intermediate Arabic II</td>
</tr>
<tr>
<td>ARAB 203</td>
<td>Intermediate Arabic III</td>
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<tr>
<td>ARAB 204</td>
<td>Intermediate Arabic IV</td>
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<tr>
<td>ARAB 205</td>
<td>Intermediate Arabic V</td>
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<tr>
<td>ARAB 212</td>
<td>Arabic Composition</td>
</tr>
<tr>
<td>ARAB 214</td>
<td>Conversation in Arabic</td>
</tr>
<tr>
<td>ARAB 216</td>
<td>Introduction to Arabic Literary Texts</td>
</tr>
</tbody>
</table>

Upper-division (minimum of 12 units) (12)
Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 301</td>
<td>Advanced Arabic I</td>
</tr>
</tbody>
</table>
ARAB 302 Advanced Arabic II
ARAB 303 Advanced Arabic III
ARAB 304 Advanced Arabic IV
ARAB 305 Advanced Arabic V
ARAB 312 Advanced Arabic Composition
ARAB 314 Advanced Arabic Conversation
ARAB 316 Arabic for the Professions
ARAB 401 Fourth Year Arabic I
ARAB 402 Fourth Year Arabic II
ARAB 403 Fourth Year Arabic III
ARAB 404 Fourth Year Arabic IV
ARAB 405 Fourth Year Arabic V

**Assessment (4)**
ARAB 295 Intermediate Assessment 2
ARAB 496 Senior Assessment 2

**Electives (42)**
Twenty units chosen from (but not selected from above): 20
ARAB 210 Arabic Calligraphy
ARAB 211 Pronunciation Practice
ARAB 301 Advanced Arabic I
ARAB 302 Advanced Arabic II
ARAB 303 Advanced Arabic III
ARAB 304 Advanced Arabic IV
ARAB 305 Advanced Arabic V
ARAB 312 Advanced Arabic Composition
ARAB 314 Advanced Arabic Conversation
ARAB 316 Arabic for the Professions
ARAB 320 Arabic Phonetics
ARAB 321 Introduction to Arabic Linguistics
ARAB 330 Levantine Arabic Dialect
ARAB 331 Egyptian Arabic Dialect
ARAB 332 NORTH AFRICAN ARABIC DIALECT
ARAB 333 Gulf Arabic Dialect
ARAB 370 Arabic Film and Culture
ARAB 380 Classical Arabic Literature in Translation
ARAB 381 Cultures and Writings of Arab-American Women
ARAB 399A Community Service Project (may be repeated up to 6 units)
or ARAB 399B Community Service Project
ARAB 401 Fourth Year Arabic I
ARAB 402 Fourth Year Arabic II
ARAB 403 Fourth Year Arabic III
ARAB 404 Fourth Year Arabic IV
ARAB 405 Fourth Year Arabic V
ARAB 470A-E Contemporary Issues in Arab Culture; (may be repeated as topics change)
ARAB 471 Media in the Arab World
ARAB 480 Special Topics in Classical Islamic Texts (may be repeated as topics change)
ARAB 481 Special Topics in Contemporary Arabic Literature (may be repeated as topics change)
ARAB 575A-D Internship (up to total of 6)
HUM 580B-D International Experience: Arabic

Twenty-two 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
ARAB 202 Intermediate Arabic II
ARAB 203 Intermediate Arabic III
ARAB 204 Intermediate Arabic IV
ARAB 205 Intermediate Arabic V
ARAB 210 Arabic Calligraphy
ARAB 211 Pronunciation Practice
ARAB 212 Arabic Composition
ARAB 214 Conversation in Arabic
ARAB 216 Introduction to Arabic Literary Texts

May only choose one from the following three courses: ANTH 590, COMM 550, GSS 390
ANTH 590B-D Selected Topics in Anthropology: Muslim Women in Media and Society
or
COMM 550 Muslim Women in Media and Society
or
GSS 390 Topics in Gender and Sexuality Studies (Muslim women in Media and Society)

May only choose two courses below if not taken above:
ANTH 358 Peoples of the Middle East
COMM 471 International Communication
ECON 430 International Economics
ECON 435 Multinational Corporations
ECON 450 Global Economy
ENG 319 Studies in Literary Diversity (when the topic is Middle Eastern Literature)
FIN 433 International Business Finance
FIN 534 Export-Import Financing
FLAN 312 Pedagogies for Foreign Language Teaching
FLAN 350 Language Acquisition and Early Field Experience for Future Teachers
FLAN 400 Readings in the Disciplines (may be repeated as topics change)
FLAN 555A-D Independent Study
FREN 370 Francophone Film and Culture (with permission)
FREN 461 Contemporary Issues in the Francophone World (with permission)
HIST 383 Classical Islamic Civilization
HIST 384 Modern Middle East
HIST 485 Arab-Israeli Conflict
HIST 487 Topics in Modern Middle Eastern History
HIST 491 Nationalism and Conflict in the Middle East
HIST 492 U.S. Media and the Middle East
HIST 495 Politics of Oil
HUM 375 The World of Islam
MGMT 405 Managing Across Borders
MGMT 406 International Business Law
MKTG 470 International Marketing Management
PSCI 308 Government and Politics of the Middle East
SPAN 371 Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (with permission)
SSCI 515  Model United Nations (if Arab country is selected)
SSCI 516  Model Arab League

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.

Total Units 70

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.

Courses

ARAB 101. College Arabic I. 4 Units.
Introduction to Arabic including fundamentals of grammatical structure, pronunciation and culture. Formerly a topic under FLAN 101.

ARAB 102. College Arabic II. 4 Units.
Prerequisites: ARAB 101 or equivalent
Further study of the fundamentals of grammatical structure, pronunciation and culture. Emphasis in oral communication, reading and writing. Formerly a topic under FLAN 102.

ARAB 103. College Arabic III. 4 Units.
Prerequisites: ARAB 102 (GE=C3)
Emphasis on oral and writing competencies at the intermediate level in a cultural context. Formerly ARAB 150.

ARAB 104. College Arabic IV. 4 Units.
Prerequisites: ARAB 103 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Graded credit/no credit.

ARAB 105. College Arabic V. 4 Units.
Prerequisites: ARAB 104 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Intermediate level. Graded credit/no credit.

ARAB 170. Beginning Arabic Conversation. 2 Units.
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.

ARAB 201. Intermediate Arabic I. 4 Units.
Prerequisites: ARAB 103 or equivalent (GE=C3)
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.

ARAB 202. Intermediate Arabic II. 4 Units.
Prerequisites: ARAB 201 or equivalent (GE=C3)
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.

ARAB 203. Intermediate Arabic III. 4 Units.
Prerequisites: ARAB 202 or equivalent (GE=C3)
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.

ARAB 204. Intermediate Arabic IV. 4 Units.
Prerequisites: ARAB 203 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Graded credit/no credit.

ARAB 205. Intermediate Arabic V. 4 Units.
Prerequisites: ARAB 204 or consent of instructor
Extended study of Arabic language for students needing to build proficiency before moving to Advanced level. Graded credit/no credit.

ARAB 210. Arabic Calligraphy. 2 Units.
Prerequisites: ARAB 102 or equivalent
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.

ARAB 211. Pronunciation Practice. 2 Units.
Prerequisites: ARAB 101 or consent of instructor
Traditional recitation methods to improve pronunciation and articulation of Arabic. May include poetry, passages from the Qur’an, and traditional songs.

ARAB 212. Arabic Composition. 4 Units.
Prerequisites: ARAB 103 or equivalent
Comprehensive review of the principles of Arabic grammar, emphasizing their application to composition.

ARAB 214. Conversation in Arabic. 4 Units.
Prerequisites: ARAB 103 or equivalent (GE=C3)
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.

ARAB 216. Introduction to Arabic Literary Texts. 4 Units.
Prerequisites: ARAB 103 or equivalent
Techniques of literary study and analysis through readings from various Arab-speaking cultures. Emphasis on vocabulary development, expression and written comprehension.

ARAB 290. Arabic Literature in Translation. 4 Units.
Prerequisites: ARAB 103 or equivalent
Introduction to Arabic literature in English translation.
ARAB 295. Intermediate Assessment. 2 Units.
Prerequisites: 12 units of Arabic courses at the 200-level or equivalent
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 online
assessment portfolios. Satisfactory completion is required for enrollment
in all upper-division Arabic courses. Graded credit/no credit.

ARAB 301. Advanced Arabic I. 4 Units.
Prerequisites: ARAB 203 or equivalent
First course in an upper-level sequence in Arabic. Develops students’
oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 302. Advanced Arabic II. 4 Units.
Prerequisites: ARAB 301 or equivalent
Second course in an upper-level sequence in Arabic. Develops students’
oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 303. Advanced Arabic III. 4 Units.
Prerequisites: ARAB 302 or equivalent
Third course in an upper-level sequence in Arabic. Develops students’
oral and written Arabic language skills, as well as knowledge of Arabic-speaking cultures.

ARAB 304. Advanced Arabic IV. 4 Units.
Prerequisites: ARAB 303 or consent of instructor
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.

ARAB 305. Advanced Arabic V. 4 Units.
Prerequisites: ARAB 304 or consent of instructor
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.

ARAB 312. Advanced Arabic Composition. 4 Units.
Prerequisites: ARAB 212 or consent of instructor
Practice in composition and short essay writing with emphasis on the
development of good writing style and expressive vocabulary.

ARAB 314. Advanced Arabic Conversation. 4 Units.
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.

ARAB 316. Arabic for the Professions. 4 Units.
Oral and written practice in Arabic terminology used in various
professions, with emphasis on cultural context.

ARAB 320. Arabic Phonetics. 4 Units.
Prerequisites: ARAB 295 or consent of instructor
In-depth study of the Arabic sound system. Oral practice and study of
general principles of Arabic phonology and dialectology.

ARAB 321. Introduction to Arabic Linguistics. 4 Units.
Prerequisites: ARAB 103 or consent of instructor
The structure of Arabic: morphology, syntax and phonology including the
historical development of the language and dialect variations.

ARAB 330. Levantine Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Levantine Arabic.
Emphasis will be on functional interactive skills, such as speaking,
listening comprehension and vocabulary building while enhancing
students cultural competence. May be repeated up to three times for
credit.

ARAB 331. Egyptian Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Egyptian Arabic.
Emphasis will be on functional interactive skills, such as speaking,
listening comprehension and vocabulary building while enhancing
students cultural competence. May be repeated up to three times for
credit.

ARAB 332. NORTH AFRICAN ARABIC
DIALECT. 4 Units.
Increased student proficiency in the spoken variety of North African
Arabic. Emphasis will be on functional interactive skills, such as speaking,
listening comprehension and vocabulary building while enhancing
students cultural competence. May be repeated up to three times for
credit.

ARAB 333. Gulf Arabic Dialect. 4 Units.
Increased student proficiency in the spoken variety of Gulf Arabic.
Emphasis will be on functional interactive skills, such as speaking,
listening comprehension and vocabulary building while enhancing
students cultural competence. May be repeated up to three times for
credit.

ARAB 370. Arabic Film and Culture. 4 Units.
Analysis and historical examination of Arabic cultures, literatures, and
themes through Arabic-language films.

ARAB 380. Classical Arabic Literature in
Translation. 4 Units.
Introduction to the literature of the pre-Islamic, early Islamic, Umayyad
and Abbasid periods. Including the development of classical Arabic poetry
and prose, its artistic characteristics and its most important genres while
examining the historical, religious, political and sociological contexts.

ARAB 381. Cultures and Writings of Arab-American Women. 4 Units.
Examination of the history and lives of Arab American women through
their own writings and essays.

ARAB 399A. Community Service Project. 1 Unit.
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 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.
ARAB 399B. Community Service Project. 2 Units.
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 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.

ARAB 401. Fourth Year Arabic I. 4 Units.
Prerequisites: ARAB 303 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 402. Fourth Year Arabic II. 4 Units.
Prerequisites: ARAB 401 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 403. Fourth Year Arabic III. 4 Units.
Prerequisites: ARAB 402 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 404. Fourth Year Arabic IV. 4 Units.
Prerequisites: ARAB 403 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 405. Fourth Year Arabic V. 4 Units.
Prerequisites: ARAB 404 or consent of instructor
Extended study of Arabic language for students needing to build proficiency for professional setting and advanced thematic classes.

ARAB 470A. Contemporary Issues in Arab Culture: Emerging Architecture. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470B. Contemporary Issues in Arab Culture: Arab-American Experience. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470C. Contemporary Issues in Arab Culture: Health Care Systems. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470D. Contemporary Issues in Arab Culture: Environmental Aspects. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 470E. Contemporary Issues in Arab Culture: Emerging Economies. 4 Units.
Prerequisites: Consent of instructor
Study of prevalent socio-cultural, political, economic and intellectual issues in the Arab world. May be repeated for credit as topics change.

ARAB 471. Media in the Arab World. 4 Units.
Prerequisites: ARAB 301 or equivalent or consent of instructor
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.

ARAB 480. Special Topics in Classical Islamic Texts. 4 Units.
Prerequisites: ARAB 303 or consent of instructor
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.

ARAB 481. Special Topics in Contemporary Arabic Literature. 4 Units.
Prerequisites: ARAB 303, 312 or consent of instructor
Special topics in contemporary Arabic literatures such as novels, poetry, essays and drama. May be repeated for credit as topics change.

ARAB 496. Senior Assessment. 2 Units.
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575A. Internship. 1 Unit.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575B. Internship. 2 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575C. Internship. 3 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

ARAB 575D. Internship. 4 Units.
Prerequisites: ARAB 303 or equivalent or consent of instructor
Supervised work in a public or private organization. May be repeated for credit. No more than six units may be applied toward the degree. Thirty hours of work per unit of credit plus a paper. Graded credit/no credit.

Bachelor of Arts in French

Requirements (70 units)

Total units required for graduation: 180

Requirements for the B.A. in French

Core requirements (70)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FREN 202</td>
<td>Culture and Communication III</td>
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<tr>
<td>FREN 295</td>
<td>Intermediate Assessment</td>
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<tr>
<td>FREN 303</td>
<td>Contemporary Spoken French</td>
<td>4</td>
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<tr>
<td>FREN 307</td>
<td>Phonetics</td>
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<tr>
<td>FREN 350</td>
<td>Advanced French Composition</td>
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<tr>
<td>FREN 450</td>
<td>Advanced Grammar Review</td>
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<td>FREN 496</td>
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### French and Francophone Studies Track

Forty-six units chosen from:

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<tr>
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<tbody>
<tr>
<td>FREN 250</td>
<td>Reading and Interpretation</td>
</tr>
<tr>
<td>FREN 270B-D</td>
<td>Introduction to French Culture</td>
</tr>
<tr>
<td>FREN 275</td>
<td>Introduction to French Business Culture</td>
</tr>
<tr>
<td>FREN 310</td>
<td>Approaches to Literature</td>
</tr>
<tr>
<td>FREN 321</td>
<td>French for Translation I</td>
</tr>
<tr>
<td>FREN 322</td>
<td>French for Translation II</td>
</tr>
<tr>
<td>FREN 323</td>
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<td>FREN 324</td>
<td>Technical Translation</td>
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<tr>
<td>FREN 336</td>
<td>Francophone Women Writers</td>
</tr>
<tr>
<td>FREN 360</td>
<td>Contemporary French Fiction</td>
</tr>
<tr>
<td>FREN 370</td>
<td>Francophone Film and Culture</td>
</tr>
<tr>
<td>FREN 381</td>
<td>French Civilization I</td>
</tr>
<tr>
<td>FREN 382</td>
<td>French Civilization II</td>
</tr>
<tr>
<td>FREN 399A</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>FREN 399B</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>FREN 407</td>
<td>Comparative Linguistics: French/English</td>
</tr>
<tr>
<td>FREN 408</td>
<td>Introduction to French Advertising</td>
</tr>
<tr>
<td>FREN 409</td>
<td>Business French</td>
</tr>
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<td>FREN 410</td>
<td>Business French Case Studies</td>
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<tr>
<td>FREN 411</td>
<td>Studies in the Novel</td>
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<tr>
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<td>Studies in Theater</td>
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<td>Studies in Poetry</td>
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<td>Special Topics in French Literature</td>
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<td>FREN 460</td>
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<tr>
<td>FREN 461</td>
<td>Contemporary Issues in the Francophone World</td>
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<tr>
<td>FREN 470B</td>
<td>Special Topics in Francophone Cultures</td>
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<td>FREN 470D</td>
<td>Special Topics in Francophone Cultures</td>
</tr>
<tr>
<td>FREN 471</td>
<td>Culture and Identity</td>
</tr>
<tr>
<td>FREN 514</td>
<td>Seminar in French Language, Literature or Civilization</td>
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<tr>
<td>FREN 575A-D</td>
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### Business Track

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<td>FREN 336</td>
<td>Francophone Women Writers</td>
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<td>FREN 360</td>
<td>Contemporary French Fiction</td>
<td>4</td>
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<tr>
<td>FREN 370</td>
<td>Francophone Film and Culture</td>
<td>4</td>
</tr>
<tr>
<td>FREN 381</td>
<td>French Civilization I</td>
<td>4</td>
</tr>
<tr>
<td>FREN 382</td>
<td>French Civilization II</td>
<td>4</td>
</tr>
<tr>
<td>FREN 399A</td>
<td>Community Service Project</td>
<td>4</td>
</tr>
<tr>
<td>FREN 399B</td>
<td>Community Service Project</td>
<td>4</td>
</tr>
<tr>
<td>FREN 408</td>
<td>Introduction to French Advertising</td>
<td>4</td>
</tr>
<tr>
<td>FREN 411</td>
<td>Studies in the Novel</td>
<td>4</td>
</tr>
<tr>
<td>FREN 412</td>
<td>Studies in Theater</td>
<td>4</td>
</tr>
<tr>
<td>FREN 413</td>
<td>Studies in Poetry</td>
<td>4</td>
</tr>
<tr>
<td>FREN 420</td>
<td>Special Topics in French Literature</td>
<td>4</td>
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<tr>
<td>FREN 460</td>
<td>Contemporary France</td>
<td>4</td>
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<tr>
<td>FREN 461</td>
<td>Contemporary Issues in the Francophone World</td>
<td>4</td>
</tr>
<tr>
<td>FREN 471</td>
<td>Culture and Identity</td>
<td>4</td>
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<td>FIN 590</td>
<td>Seminar in Finance (when the topic is French Stock Market)</td>
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<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
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<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
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<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
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### Teacher Track

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<td>FLAN 312</td>
<td>Pedagogies for Foreign Language Teaching</td>
<td>4</td>
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<td>FLAN 350</td>
<td>Language Acquisition and Early Field Experience</td>
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<td>FREN 407</td>
<td>Comparative Linguistics: French/English</td>
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<td>FREN 250</td>
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<td>FREN 270B-D</td>
<td>Introduction to French Culture</td>
<td></td>
</tr>
<tr>
<td>FREN 310</td>
<td>Approaches to Literature</td>
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</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>46</strong></td>
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</table>

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, FREN 496 and FREN 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.

**Bachelor of Arts in Spanish**

**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)**
Proficiency in Spanish equal to that of SPAN 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 302</td>
<td>Theory and Practice in Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 312B</td>
<td>Techniques for Professional Interpreting and Translating in Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 316D</td>
<td>Spanish for the Professions: Business</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 402</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
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</tr>
<tr>
<td></td>
<td>SPAN 321</td>
<td>Spanish in the United States</td>
</tr>
<tr>
<td></td>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English</td>
</tr>
<tr>
<td></td>
<td>SPAN 416</td>
<td>Advanced Study of Semantics, Pragmatics and Sociolinguistics</td>
</tr>
<tr>
<td></td>
<td>SPAN 322</td>
<td>Origin and Contemporary Role of Hispanic Dialects</td>
</tr>
<tr>
<td></td>
<td>or SPAN 401</td>
<td>Phonetics</td>
</tr>
</tbody>
</table>

**Literature (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 318</td>
<td>Techniques of Literary Study and Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPAN 370</td>
<td>Literature of the Conquest</td>
</tr>
<tr>
<td></td>
<td>SPAN 371</td>
<td>Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century</td>
</tr>
<tr>
<td></td>
<td>SPAN 372</td>
<td>Modern Peninsular Literature</td>
</tr>
<tr>
<td></td>
<td>SPAN 373</td>
<td>Modern Latin American Literature</td>
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**Civilization (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 410</td>
<td>Spanish Peninsular Civilization</td>
<td>4</td>
</tr>
<tr>
<td>or SPAN 412</td>
<td>Latin American Civilization</td>
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**Practicum (4)**

<table>
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<th>Title</th>
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<tbody>
<tr>
<td></td>
<td>Four units chosen from:</td>
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</tr>
<tr>
<td></td>
<td>SPAN 394A-E</td>
<td>Practicum</td>
</tr>
<tr>
<td></td>
<td>SPAN 399</td>
<td>Departmental Service Project (for a total of 4)</td>
</tr>
<tr>
<td></td>
<td>SPAN 575A-D</td>
<td>Internship in Service Learning (for a total of 4 units)</td>
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**Electives (4)**

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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>Four units chosen from any upper-division Spanish courses.</td>
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**Assessments (2)**

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<tr>
<td>SPAN 295</td>
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<td>SPAN 496</td>
<td>Senior Assessment</td>
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**Business (24)**

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<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
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</tr>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
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</table>

Eight upper-division units chosen from a specific area in ACCT, IST, MGMT or MKTG.

Total Units **74**

**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)**
Proficiency in Spanish equal to that of SPAN 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.

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<td>SPAN 302</td>
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<td>SPAN 316A</td>
<td>Spanish for the Professions: Communications</td>
<td>4</td>
</tr>
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<td>SPAN 402</td>
<td>Advanced Composition</td>
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<td>SPAN 321</td>
<td>Spanish in the United States</td>
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<td></td>
<td>or SPAN 401</td>
<td>Phonetics</td>
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**Literature (8)**

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<tbody>
<tr>
<td>SPAN 318</td>
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**Civilization (8)**

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<tbody>
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<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
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<td>SPAN 410</td>
<td>Spanish Peninsular Civilization</td>
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**Practicum (4)**

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<td>Practicum</td>
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<td>SPAN 435</td>
<td>Chicano Literature in Spanish</td>
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**Civilization (8)**

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**Practicum (4)**

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<td>SPAN 394A-E</td>
<td>Practicum</td>
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<td>Internship in Service Learning (for a total of 4 units)</td>
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**Electives (4)**
Four units chosen from any upper-division Spanish courses. 4

**Assessments (2)**
SPAN 295 Intermediate Skills Assessment 1
SPAN 496 Senior Assessment 1

**Communication Studies (8)**
COMM 200 Introduction to Communication Studies 4
COMM 304 Intercultural Communication 4

**Electives (16)**
Sixteen units chosen from the following courses: 16

- **Human Communication:**
  - COMM 225 Fundamentals of Interpersonal Communication
  - COMM 421 Organizational Communication
  - COMM 422 Communication and Conflict

- **Intercultural Communication:**
  - COMM 302 Communication, Language and Culture
  - COMM 411 Gender and Communication
  - COMM 580 Culture and Ethnicity in Language

- **Mass Communication:**
  - COMM 245 Introduction to TV and Video Production
  - COMM 409 Advertising as Social Communication
  - COMM 471 International Communication

- **Public Relations:**
  - COMM 311 Business and Professional Communication
  - COMM 341 Public Relations Theory and Principles

- **Argumentation and Rhetoric:**
  - COMM 305 Critical Approaches to Communication
  - COMM 312 Persuasion

**Total Units**

---

**B.A. in Spanish - Hispanic Cultural Studies Track**

**Requirements (74 units)**

**Total units required for graduation: 180**

This track is designed for students who wish to have an in-depth knowledge of the Spanish language and Hispanic civilization, and who do not plan to be a teacher of Spanish in a California middle school or high school. This track is ideal for students who are double majoring in Spanish as well as another CSUSB major.

**Requirements for the B.A. in Spanish - Cultural Studies Track**

**Language (28)**
Proficiency in Spanish equal to that of SPAN 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.

- SPAN 302 Theory and Practice in Composition 4
- SPAN 312B Techniques for Professional Interpreting and Translating in Spanish

**Electives (4)**
Four units chosen from any upper-division Spanish courses. 4

**Assessments (2)**
SPAN 295 Intermediate Skills Assessment 1
SPAN 496 Senior Assessment 1

**Total Units**

---

**B.A. in Spanish - Hispanic Literature, Language and Civilization Track**

**Requirements (82 units)**

**Total units required for graduation: 180**

**Electives (4)**
Four units chosen from any upper-division Spanish courses. 4

**Assessments (2)**
SPAN 295 Intermediate Skills Assessment 1
SPAN 496 Senior Assessment 1

**Total Units**

---
### Requirements for the B.A. in Spanish - Hispanic Literature, Language, and Civilization Track

#### Language (32)
Proficiency in Spanish equal to that of SPAN 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAN 350</td>
<td>Language Acquisition and Early Field Experience</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 302</td>
<td>Theory and Practice in Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 314</td>
<td>Advanced Conversation</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 401</td>
<td>Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 402</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 416</td>
<td>Advanced Study of Semantics, Pragmatics and Sociolinguistics</td>
<td>4</td>
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Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SPAN 312A</td>
<td>Techniques for Professional Interpreting and Translating in Spanish</td>
</tr>
<tr>
<td>SPAN 312B</td>
<td>Techniques for Professional Interpreting and Translating in Spanish</td>
</tr>
<tr>
<td>SPAN 312C</td>
<td>Techniques for Professional Interpreting and Translating in Spanish</td>
</tr>
<tr>
<td>SPAN 316A</td>
<td>Spanish for the Professions: Communications</td>
</tr>
<tr>
<td>SPAN 316B</td>
<td>Spanish for the Professions: Health Science</td>
</tr>
<tr>
<td>SPAN 316C</td>
<td>Spanish for the Professions: Education</td>
</tr>
<tr>
<td>SPAN 316D</td>
<td>Spanish for the Professions: Business</td>
</tr>
<tr>
<td>SPAN 316E</td>
<td>Spanish for the Professions: Law Enforcement</td>
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#### Literature (28)

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPAN 318</td>
<td>Techniques of Literary Study and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 370</td>
<td>Literature of the Conquest</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 371</td>
<td>Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 372</td>
<td>Modern Peninsular Literature</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 373</td>
<td>Modern Latin American Literature</td>
<td>4</td>
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Twelve units chosen from:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 370</td>
<td>Literature of the Conquest</td>
</tr>
<tr>
<td>SPAN 371</td>
<td>Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century</td>
</tr>
<tr>
<td>SPAN 372</td>
<td>Modern Peninsular Literature</td>
</tr>
<tr>
<td>SPAN 373</td>
<td>Modern Latin American Literature</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPAN 440</td>
<td>Mexican Literature</td>
</tr>
<tr>
<td>SPAN 442</td>
<td>Literature of the Southern Cone</td>
</tr>
<tr>
<td>SPAN 443</td>
<td>Literature of the Caribbean</td>
</tr>
<tr>
<td>SPAN 445</td>
<td>The Narrative of Spanish America</td>
</tr>
<tr>
<td>SPAN 446</td>
<td>Literature of the Renaissance and the Spanish Golden Age</td>
</tr>
<tr>
<td>SPAN 447</td>
<td>Romanticism and Realism in Spain</td>
</tr>
<tr>
<td>SPAN 448</td>
<td>Twentieth Century Spanish Literature</td>
</tr>
<tr>
<td>SPAN 449</td>
<td>Literature of the Indigenous Peoples of Spanish America</td>
</tr>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPAN 515A-G</td>
<td>Seminar in Spanish Peninsular Literature, Culture or Film:</td>
</tr>
<tr>
<td>SPAN 516A-G</td>
<td>Seminar in Spanish American Literature, Culture or Film:</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPAN 517A</td>
<td>Seminar in Hispanic Linguistics: Grammar</td>
</tr>
<tr>
<td>SPAN 517B</td>
<td>Seminar in Hispanic Linguistics: Dialectology</td>
</tr>
<tr>
<td>SPAN 517C</td>
<td>Seminar in Hispanic Linguistics: Language in Society</td>
</tr>
<tr>
<td>SPAN 517D</td>
<td>Seminar in Hispanic Linguistics: Teaching Methodology</td>
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</table>

#### Civilization (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 410</td>
<td>Spanish Peninsular Civilization</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 412</td>
<td>Latin American Civilization</td>
<td>4</td>
</tr>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td>4</td>
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#### Practicum (4)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPAN 394A-E</td>
<td>Practicum</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 399</td>
<td>Departmental Service Project ( )</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 575A-D</td>
<td>Internship in Service Learning (for a total of 4 units)</td>
<td></td>
</tr>
</tbody>
</table>

#### Electives (4)

Four units chosen from any upper-division Spanish courses.

#### Assessments (2)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 295</td>
<td>Intermediate Skills Assessment</td>
<td>1</td>
</tr>
<tr>
<td>SPAN 496</td>
<td>Senior Assessment</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units: 82

### 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 606</td>
<td>Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 608</td>
<td>History of the Spanish Language</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 615</td>
<td>Second Language Acquisition in Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 620A-D</td>
<td>Spanish Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>EDCI 620</td>
<td>School Curriculum</td>
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</tr>
<tr>
<td>EELB 606</td>
<td>Theory and Practice in Teaching Bilingual Students</td>
<td></td>
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</tbody>
</table>

Twelve units taken in education courses which may be selected from the following:

Electives (16)
Sixteen units of electives of SPAN graduate-level courses in literature, language, and civilization.

Total Units 45

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 606</td>
<td>Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 608</td>
<td>History of the Spanish Language</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 612</td>
<td>Studies in Hispanic Cultures</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 615</td>
<td>Second Language Acquisition in Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 620A-D</td>
<td>Spanish Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 625A-F</td>
<td>Spanish Peninsular Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 630A-F</td>
<td>Spanish-American Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 697</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives (16)
Sixteen units of electives chosen from Spanish 500- and 600-level courses. A maximum of eight units from SPAN 515, SPAN 516 or SPAN 517 may be counted towards this elective category.

Total Units 45

Hispanic Applied Linguistics
Designed for Spanish teachers, translators, and bilingual professionals, this track provides students with a strong background in applied linguistics and Hispanic cultures, as well as exposure to the literatures and the language of the Spanish-speaking world.

Core Courses (29)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 606</td>
<td>Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 608</td>
<td>History of the Spanish Language</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 612</td>
<td>Studies in Hispanic Cultures</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 615</td>
<td>Second Language Acquisition in Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 620A-D</td>
<td>Spanish Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655A</td>
<td>Seminar in Applied Linguistics: Translation</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655B</td>
<td>Seminar in Applied Linguistics: Spanish for the</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655C</td>
<td>Seminar in Applied Linguistics: Language and</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655D</td>
<td>Seminar in Applied Linguistics: Applied Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 697</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 655A</td>
<td>Seminar in Applied Linguistics: Translation</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655B</td>
<td>Seminar in Applied Linguistics: Spanish for the</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655C</td>
<td>Seminar in Applied Linguistics: Language and</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655D</td>
<td>Seminar in Applied Linguistics: Applied Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 697</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>
Electives (16)
Sixteen units of electives chosen from Spanish 500- and 600-level courses. A maximum of eight units from SPAN 515, SPAN 516 or SPAN 517 may be counted towards this elective category.

Total Units 45

Minor in Arabic

Requirements (32 units)

Requirements for a minor in Arabic

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, ARAB 102, and ARAB 103 which will not count toward the 32-unit requirement for the minor.

Lower-division requirements (12)

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARAB 201</td>
<td>Intermediate Arabic I</td>
</tr>
<tr>
<td>ARAB 202</td>
<td>Intermediate Arabic II</td>
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<tr>
<td>ARAB 203</td>
<td>Intermediate Arabic III</td>
</tr>
<tr>
<td>ARAB 204</td>
<td>Intermediate Arabic IV</td>
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<tr>
<td>ARAB 205</td>
<td>Intermediate Arabic V</td>
</tr>
<tr>
<td>ARAB 212</td>
<td>Arabic Composition</td>
</tr>
<tr>
<td>ARAB 214</td>
<td>Conversation in Arabic</td>
</tr>
<tr>
<td>ARAB 216</td>
<td>Introduction to Arabic Literary Texts</td>
</tr>
<tr>
<td>ARAB 290</td>
<td>Arabic Literature in Translation</td>
</tr>
</tbody>
</table>

Upper-division requirements (20)

Twelve units chosen from:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARAB 301</td>
<td>Advanced Arabic I</td>
</tr>
<tr>
<td>ARAB 302</td>
<td>Advanced Arabic II</td>
</tr>
<tr>
<td>ARAB 303</td>
<td>Advanced Arabic III</td>
</tr>
<tr>
<td>ARAB 304</td>
<td>Advanced Arabic IV</td>
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<td>ARAB 305</td>
<td>Advanced Arabic V</td>
</tr>
<tr>
<td>ARAB 312</td>
<td>Advanced Arabic Composition</td>
</tr>
<tr>
<td>ARAB 314</td>
<td>Advanced Arabic Conversation</td>
</tr>
<tr>
<td>ARAB 316</td>
<td>Arabic for the Professions</td>
</tr>
<tr>
<td>ARAB 320</td>
<td>Arabic Phonetics</td>
</tr>
<tr>
<td>ARAB 321</td>
<td>Introduction to Arabic Linguistics</td>
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<tr>
<td>ARAB 330</td>
<td>Levantine Arabic Dialect</td>
</tr>
<tr>
<td>ARAB 331</td>
<td>Egyptian Arabic Dialect</td>
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<tr>
<td>ARAB 332</td>
<td>NORTH AFRICAN ARABIC DIALECT</td>
</tr>
<tr>
<td>ARAB 333</td>
<td>Gulf Arabic Dialect</td>
</tr>
<tr>
<td>ARAB 370</td>
<td>Arabic Film and Culture</td>
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<td>ARAB 380</td>
<td>Classical Arabic Literature in Translation</td>
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<tr>
<td>ARAB 381</td>
<td>Cultures and Writings of Arab-American Women</td>
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<td>ARAB 399A</td>
<td>Community Service Project</td>
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<tr>
<td>ARAB 399B</td>
<td>Community Service Project</td>
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<tr>
<td>ARAB 401</td>
<td>Fourth Year Arabic I</td>
</tr>
<tr>
<td>ARAB 402</td>
<td>Fourth Year Arabic II</td>
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<tr>
<td>ARAB 403</td>
<td>Fourth Year Arabic III</td>
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Eight units chosen from:

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<tbody>
<tr>
<td>ARAB 404</td>
<td>Fourth Year Arabic IV</td>
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<tr>
<td>ARAB 405</td>
<td>Fourth Year Arabic V</td>
</tr>
<tr>
<td>ARAB 470A-E</td>
<td>Contemporary Issues in Arabic Culture: (may be repeated as topics change)</td>
</tr>
<tr>
<td>ARAB 471</td>
<td>Media in the Arab World</td>
</tr>
<tr>
<td>ARAB 480</td>
<td>Special Topics in Classical Islamic Texts (may be repeated as topics change)</td>
</tr>
<tr>
<td>ARAB 481</td>
<td>Special Topics in Contemporary Arabic Literature (may be repeated as topics change)</td>
</tr>
<tr>
<td>ARAB 575A-D</td>
<td>Internship</td>
</tr>
<tr>
<td>HUM 580A-E</td>
<td>International Experience: Arabic</td>
</tr>
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</table>

Eight units chosen from:

Any upper-division elective course not selected from above:

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARAB 210</td>
<td>Arabic Calligraphy</td>
</tr>
<tr>
<td>ARAB 211</td>
<td>Pronunciation Practice</td>
</tr>
<tr>
<td>ANTH 358</td>
<td>Peoples of the Middle East</td>
</tr>
<tr>
<td>ANTH 590D</td>
<td>Selected Topics in Anthropology</td>
</tr>
<tr>
<td>or COMM 550</td>
<td>Muslim Women in Media and Society</td>
</tr>
<tr>
<td>or GSS 390</td>
<td>Topics in Gender and Sexuality Studies</td>
</tr>
<tr>
<td>COMM 471</td>
<td>International Communication</td>
</tr>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
</tr>
<tr>
<td>ENG 319</td>
<td>Studies in Literary Diversity (when topic is Middle Eastern Literatures)</td>
</tr>
<tr>
<td>FIN 433</td>
<td>International Business Finance</td>
</tr>
<tr>
<td>FIN 534</td>
<td>Export-Import Financing</td>
</tr>
<tr>
<td>FLAN 312</td>
<td>Pedagogies for Foreign Language Teaching</td>
</tr>
<tr>
<td>FLAN 350</td>
<td>Language Acquisition and Early Field Experience for Future Teachers</td>
</tr>
<tr>
<td>FLAN 400</td>
<td>Readings in the Disciplines (may be repeated as topics change)</td>
</tr>
<tr>
<td>FLAN 555D</td>
<td>Independent Study</td>
</tr>
<tr>
<td>FREN 370</td>
<td>Francophone Film and Culture (with permission)</td>
</tr>
<tr>
<td>FREN 461</td>
<td>Contemporary Issues in the Francophone World (with permission)</td>
</tr>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
</tr>
<tr>
<td>HIST 384</td>
<td>Modern Middle East</td>
</tr>
<tr>
<td>HIST 485</td>
<td>Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 487</td>
<td>Topics in Modern Middle Eastern History</td>
</tr>
<tr>
<td>HIST 491</td>
<td>Nationalism and Conflict in the Middle East</td>
</tr>
<tr>
<td>HIST 492</td>
<td>U.S. Media and the Middle East</td>
</tr>
<tr>
<td>HIST 495</td>
<td>Politics of Oil</td>
</tr>
<tr>
<td>HUM 375</td>
<td>The World of Islam</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Managing Across Borders</td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Business Law</td>
</tr>
<tr>
<td>MKTG 470</td>
<td>International Marketing Management</td>
</tr>
<tr>
<td>PSCI 308</td>
<td>Government and Politics of the Middle East</td>
</tr>
<tr>
<td>SSCI 515</td>
<td>Model United Nations (if Arab country is selected)</td>
</tr>
<tr>
<td>SSCI 516</td>
<td>Model Arab League</td>
</tr>
<tr>
<td>SPAN 371</td>
<td>Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (with permission)</td>
</tr>
</tbody>
</table>
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.

Total Units 32

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.

1 Topic for ANTH 590D and GSS 390: Muslim Women in Media and Society.

Minor in French

Requirements (34 units)

Requirements for a minor in French

Proficiency in French equal to that of FREN 103. College French III or equivalent.

FREN 201 Culture and Communication II 4
FREN 202 Culture and Communication III 4
FREN 250 Reading and Interpretation 4
FREN 310 Approaches to Literature or FREN 310
FREN 295 Intermediate Assessment 2

Eight units chosen from:

- FREN 270b-D Introduction to French Culture
- FREN 303 Contemporary Spoken French
- FREN 307 Phonetics
- FREN 321 French for Translation I
- FREN 350 Advanced French Composition

Twelve units chosen from any upper-division French courses. 12

Total Units 34

Minor in German

Requirements (24 units)

Requirements for a minor in German

Proficiency in German equal to GER 103 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)

GER 212 Composition 4
GER 214 Conversation 4
GER 216 Introduction to Literary Texts 4

Upper-division requirements (12)

GER 309 Advanced German Composition 4

Eight units chosen from upper-division German courses. 8

Total Units 24

Minor in Spanish

Requirements (28 units)

Requirements for a minor in Spanish

Proficiency in Spanish equal to SPAN 103

Note: Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

Twenty-eight additional units in Spanish courses, of which 20 units must be upper-division.

Total Units 28

Minor in Japanese

Requirements (32 units)

Requirements for a minor in Japanese

1. Proficiency in Japanese equal to JAPN 103 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, JAPN 102 and JAPN 103 which will not count toward the 32-unit requirement for the minor.

Lower-division requirements (12)

JAPN 201 Second Year College Japanese I 4
JAPN 202 Second Year College Japanese II 4
JAPN 203 Second Year College Japanese III 4

Upper-division requirements (12)

JAPN 301 Third-Year College Japanese 4
JAPN 302 Third-Year College Japanese II 4
JAPN 303 Third-Year Japanese III 4

Electives (8)

Eight units chosen from:

- JAPN 210 Japanese Calligraphy
- JAPN 214 Conversation in Japanese
- JAPN 275 Japanese Business Culture
- JAPN 290 Japanese Literature in Translation
- JAPN 310 Introduction to Japanese Literature
- JAPN 314 Advanced Conversation
- JAPN 315 Language in Japanese Society
- JAPN 370 Analysis of Japanese Culture through the Study of Film
- JAPN 399A-B Community Service Project (for a total of 6 units)
- JAPN 409 Business Japanese
- HUM 578A-F International Experience/Asian Studies (when associated with Japan, 1-6 units)

Total Units 32
Certificate for German/English Translators

Requirements (36 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate requirements

Proficiency in German equal to GER 103 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 212</td>
<td>Composition</td>
<td>4</td>
</tr>
<tr>
<td>GER 214</td>
<td>Conversation</td>
<td>4</td>
</tr>
<tr>
<td>GER 216</td>
<td>Introduction to Literary Texts</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-division requirements (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
<td>4</td>
</tr>
<tr>
<td>GER 309</td>
<td>Advanced German Composition</td>
<td>4</td>
</tr>
<tr>
<td>GER 311</td>
<td>Survey of German Literature</td>
<td>4</td>
</tr>
<tr>
<td>GER 312</td>
<td>Business German</td>
<td>4</td>
</tr>
<tr>
<td>GER 313</td>
<td>Technical and Scientific Translation</td>
<td>4</td>
</tr>
<tr>
<td>HUM 460</td>
<td>Cultural Studies (when the topic pertains to Germany)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 36

Certificate in Arabic

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

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, ARAB 102, and ARAB 103 which will not count toward the 32-unit requirement for the certificate.

Lower-division requirements (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ARAB 201</td>
<td>Intermediate Arabic I</td>
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</tr>
<tr>
<td>ARAB 202</td>
<td>Intermediate Arabic II</td>
<td>4</td>
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<tr>
<td>ARAB 203</td>
<td>Intermediate Arabic III</td>
<td>4</td>
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<tr>
<td>ARAB 204</td>
<td>Intermediate Arabic IV</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 205</td>
<td>Intermediate Arabic V</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 212</td>
<td>Arabic Composition</td>
<td>4</td>
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<tr>
<td>ARAB 214</td>
<td>Conversation in Arabic</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 216</td>
<td>Introduction to Arabic Literary Texts</td>
<td>4</td>
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<td>ARAB 290</td>
<td>Arabic Literature in Translation</td>
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Upper-division requirements (20)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ARAB 301</td>
<td>Advanced Arabic I</td>
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<td>ARAB 302</td>
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<tr>
<td>ARAB 303</td>
<td>Advanced Arabic III</td>
<td>4</td>
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<tr>
<td>ARAB 304</td>
<td>Advanced Arabic IV</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 305</td>
<td>Advanced Arabic V</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 312</td>
<td>Advanced Arabic Composition</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 314</td>
<td>Advanced Arabic Conversation</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 316</td>
<td>Arabic for the Professions</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 320</td>
<td>Arabic Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 321</td>
<td>Introduction to Arabic Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 330</td>
<td>Levantine Arabic Dialect</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 331</td>
<td>Egyptian Arabic Dialect</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 332</td>
<td>NORTH AFRICAN ARABIC DIALECT</td>
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</tr>
<tr>
<td>ARAB 333</td>
<td>Gulf Arabic Dialect</td>
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</tr>
<tr>
<td>ARAB 370</td>
<td>Arabic Film and Culture</td>
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</tr>
<tr>
<td>ARAB 380</td>
<td>Classical Arabic Literature in Translation</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 381</td>
<td>Cultures and Writings of Arab-American Women</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 399A</td>
<td>Community Service Project</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 399B</td>
<td>Community Service Project</td>
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</tr>
<tr>
<td>ARAB 401</td>
<td>Fourth Year Arabic I</td>
<td>4</td>
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<tr>
<td>ARAB 402</td>
<td>Fourth Year Arabic II</td>
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<tr>
<td>ARAB 403</td>
<td>Fourth Year Arabic III</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 404</td>
<td>Fourth Year Arabic IV</td>
<td>4</td>
</tr>
</tbody>
</table>
ARAB 405 Fourth Year Arabic V
ARAB 470A-E: Contemporary Issues in Arab Culture: (may be repeated as topics change)
ARAB 471 Media in the Arab World
ARAB 480 Special Topics in Classical Islamic Texts (may be repeated as topics change)
ARAB 481 Special Topics in Contemporary Arabic Literature (may be repeated as topics change)
ARAB 575A-D Internship (for a total of 6 units)
HUM 580A-F International Experience: Arabic (1-6 units)
Eight units chosen from:
Any upper-division elective course not selected from above
ARAB 210 Arabic Calligraphy
ARAB 211 Pronunciation Practice
ANTH 358 Peoples of the Middle East
ANTH 590B-D Selected Topics in Anthropology or COMM 550, GSS 390
ANTH 595D Independent Study ¹
or COMM 550 Muslim Women in Media and Society
or GSS 390 Topics in Gender and Sexuality Studies
COMM 471 International Communication
ECON 430 International Economics
ECON 435 Multinational Corporations
ECON 450 Global Economy
ENG 319 Studies in Literary Diversity (when the topic is Middle Eastern Literatures)
FIN 433 International Business Finance
FIN 534 Export-Import Financing
FLAN 312 Pedagogies for Foreign Language Teaching
FLAN 350 Language Acquisition and Early Field Experience for Future Teachers
FLAN 400 Readings in the Disciplines (may be repeated as topics change)
FLAN 555A-D Independent Study
FREN 370 Francophone Film and Culture (with permission)
FREN 461 Contemporary Issues in the Francophone World (with permission)
HIST 383 Classical Islamic Civilization
HIST 384 Modern Middle East
HIST 485 Arab-Israeli Conflict
HIST 487 Topics in Modern Middle Eastern History
HIST 491 Nationalism and Conflict in the Middle East
HIST 492 U.S. Media and the Middle East
HIST 495 Politics of Oil
HUM 375 The World of Islam
MGMT 405 Managing Across Borders
MGMT 406 International Business Law
MKTG 470 International Marketing Management
PSCI 308 Government and Politics of the Middle East
SSCI 515 Model United Nations (if Arab country is selected)
SSCI 516 Model Arab League
SPAN 371 Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century (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.

<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
</tr>
</tbody>
</table>

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.

¹ Topic for ANTH 590D and GSS 390: Muslim Women in Media and Society.

Certificate in Bilingual/Cross-Cultural Studies: Spanish/English

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Lower-division requirements (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 203</td>
<td>Intermediate Spanish III</td>
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Upper-division requirements (28)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 304</td>
<td>Intercultural Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 318</td>
<td>Techniques of Literary Study and Analysis</td>
<td>4</td>
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</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 328</td>
<td>Mexican Art</td>
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</tr>
<tr>
<td>ART 329</td>
<td>Chicano Art</td>
<td></td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English</td>
<td></td>
</tr>
<tr>
<td>SPAN 440</td>
<td>Mexican Literature</td>
<td></td>
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</table>

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 354</td>
<td>Cultures of Mexico and Central America</td>
<td></td>
</tr>
<tr>
<td>ANTH 356</td>
<td>Cultures of South America</td>
<td></td>
</tr>
<tr>
<td>ANTH 388</td>
<td>Language and Culture</td>
<td></td>
</tr>
<tr>
<td>HIST 390</td>
<td>History of Modern Mexico</td>
<td></td>
</tr>
<tr>
<td>HIST 391</td>
<td>Chicano History</td>
<td></td>
</tr>
<tr>
<td>HIST 470</td>
<td>Modern Latin America</td>
<td></td>
</tr>
<tr>
<td>HUM 450</td>
<td>Aspects of Chicana/o Culture</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 32
Certificate in California Indian Languages and Cultures

Requirements (24 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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 Requirement

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAN 103Q</td>
<td>Language Study III: Luiseño</td>
</tr>
<tr>
<td>FLAN 103R</td>
<td>Language Study III: Cahuilla</td>
</tr>
<tr>
<td>FLAN 103S</td>
<td>Language Study III: Serrano</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAN 201Q</td>
<td>Second Year Language Study I: Luiseño</td>
</tr>
<tr>
<td>FLAN 202Q</td>
<td>Second Year Language Study II: Luiseño</td>
</tr>
<tr>
<td>FLAN 203Q</td>
<td>Second Year Language Study III: Luiseño</td>
</tr>
<tr>
<td>FLAN 201R</td>
<td>Second Year Language Study I: Cahuilla</td>
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<tr>
<td>FLAN 202R</td>
<td>Second Year Language Study II: Cahuilla</td>
</tr>
<tr>
<td>FLAN 203R</td>
<td>Second Year Language Study III: Cahuilla</td>
</tr>
<tr>
<td>FLAN 201S</td>
<td>Second Year Language Study I: Serrano</td>
</tr>
<tr>
<td>FLAN 202S</td>
<td>Second Year Language Study II: Serrano</td>
</tr>
<tr>
<td>FLAN 203S</td>
<td>Second Year Language Study III: Serrano</td>
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</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 460</td>
<td>Cultural Studies (topic title California Indian Languages)</td>
</tr>
<tr>
<td>ANTH 381</td>
<td>California Indian Linguistic Anthropology</td>
</tr>
<tr>
<td>FLAN 555D</td>
<td>Independent Study *</td>
</tr>
<tr>
<td>HUM 595D</td>
<td>Independent Study in the Humanities *</td>
</tr>
<tr>
<td>ANTH 575D</td>
<td>Internship in Anthropology *</td>
</tr>
<tr>
<td>HIST 575</td>
<td>Internship in History *</td>
</tr>
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</table>

Electives (12)

Any of the required courses above may also count as electives if not taken above

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 323</td>
<td>Native North American Art</td>
</tr>
</tbody>
</table>

Total Units: 24

* Requires approval by certificate coordinator.

Certificate in French/English Translation

Requirements (20 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Proficiency in French equal to that of FREN 103. College French III or equivalent.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 295</td>
<td>Intermediate Assessment</td>
</tr>
<tr>
<td>FREN 321</td>
<td>French for Translation I</td>
</tr>
<tr>
<td>FREN 322</td>
<td>French for Translation II</td>
</tr>
<tr>
<td>FREN 323</td>
<td>Commercial Translation</td>
</tr>
<tr>
<td>FREN 350</td>
<td>Advanced French Composition</td>
</tr>
<tr>
<td>FREN 270B-D</td>
<td>Introduction to French Culture</td>
</tr>
<tr>
<td>FREN 324</td>
<td>Technical Translation</td>
</tr>
<tr>
<td>FREN 382</td>
<td>French Civilization II</td>
</tr>
<tr>
<td>FREN 408</td>
<td>Introduction to French Advertising</td>
</tr>
<tr>
<td>FREN 460</td>
<td>Contemporary France</td>
</tr>
<tr>
<td>FREN 461</td>
<td>Contemporary Issues in the Francophone World</td>
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</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 306</td>
<td>Expository Writing for English</td>
</tr>
</tbody>
</table>

Four units chosen from:
Certificate in Hispanic Literatures

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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. Submission of official transcripts from all previous college work to the department’s graduate committee;
4. Students who do not meet the above criteria may be admitted as Unclassified Postbaccalaureate 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 be required to take selected upper-division undergraduate courses (earning a minimum grade of "B" (3.0) in each assigned class).

Certificate Requirements (28 units)

Core Courses (16)
- SPAN 606 Research Methods 4
- SPAN 612 Studies in Hispanic Cultures 4
- SPAN 625A-F Spanish Peninsular Literature and Culture 4
- SPAN 630A-F Spanish-American Literature and Culture 4

Electives (12)
Twelve units of electives chosen from Spanish 500- 600-level courses. A maximum of four units from SPAN 515, SPAN 516, or SPAN 517 may be counted towards this elective category.

Total Units 28

Certificate in Japanese Language and Culture

Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Proficiency in Japanese equal to JAPN 103 or equivalent. Entering students with previous training in Japanese or those who are native speakers should contact the Department of World Languages and Literatures for information about placement and credit by examination. Students with no prior exposure to Japanese must complete JAPN 101, JAPN 102, and JAPN 103 which will not count toward the 28-unit requirement for the certificate.

Lower-division requirements (16)
- JAPN 201 Second Year College Japanese I 4
- JAPN 202 Second Year College Japanese II 4
- JAPN 203 Second Year College Japanese III 4

Four units chosen from:

- JAPN 210 Japanese Calligraphy 4
- JAPN 214 Conversation in Japanese
- JAPN 275 Japanese Business Culture
- JAPN 290 Japanese Literature in Translation

Upper-division requirements (12)
Eight units chosen from:

- JAPN 301 Third-Year College Japanese
- JAPN 302 Third-Year College Japanese II
- JAPN 303 Third-Year Japanese III
- JAPN 314 Advanced Conversation

Four units chosen from:

- JAPN 310 Introduction to Japanese Literature
- JAPN 315 Language in Japanese Society
- JAPN 370 Analysis of Japanese Culture through the Study of Film
- JAPN 399A Community Service Project
- JAPN 399B Community Service Project

Total Units 28
Certificate in Spanish Applied Linguistics

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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. Submission of official transcripts from all previous college work to the department’s graduate committee;
4. Students who do not meet the above criteria may be admitted as Unclassified Postbaccalaureate 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 be required to take selected upper-division undergraduate courses (earning a minimum grade of "B" (3.0) in each assigned class).

Certificate Requirements (28 units)

Core Courses (16)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 606</td>
<td>Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 612</td>
<td>Studies in Hispanic Cultures</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 615</td>
<td>Second Language Acquisition in Spanish</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 655A</td>
<td>Seminar in Applied Linguistics: Translation Techniques</td>
<td></td>
</tr>
<tr>
<td>SPAN 655B</td>
<td>Seminar in Applied Linguistics: Spanish for the Professions</td>
<td></td>
</tr>
<tr>
<td>SPAN 655C</td>
<td>Seminar in Applied Linguistics: Language and Media</td>
<td></td>
</tr>
<tr>
<td>SPAN 655D</td>
<td>Seminar in Applied Linguistics: Applied Spanish Grammar</td>
<td></td>
</tr>
</tbody>
</table>

Electives (12)

Twelve units of electives chosen from Spanish 500- and 600-level courses. A maximum of four units from SPAN 515, SPAN 516, or SPAN 517 may be counted towards this elective category.

Total Units 28

Certificate in Spanish for Public Services

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate requirements (28 units)

Proficiency in Spanish equal to SPAN 103 or equivalent. Note: Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirement (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 203</td>
<td>Intermediate Spanish III</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-division requirements (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 302</td>
<td>Theory and Practice in Composition</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 312A-C</td>
<td>Techniques for Professional Interpreting and Translating in Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 314</td>
<td>Advanced Conversation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 316A</td>
<td>Spanish for the Professions: Communications</td>
<td></td>
</tr>
<tr>
<td>SPAN 316B</td>
<td>Spanish for the Professions: Health Science</td>
<td></td>
</tr>
<tr>
<td>SPAN 316C</td>
<td>Spanish for the Professions: Education</td>
<td></td>
</tr>
<tr>
<td>SPAN 316D</td>
<td>Spanish for the Professions: Business</td>
<td></td>
</tr>
<tr>
<td>SPAN 316E</td>
<td>Spanish for the Professions: Law Enforcement</td>
<td></td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 440</td>
<td>Mexican Literature</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 442</td>
<td>Literature of the Southern Cone</td>
<td></td>
</tr>
<tr>
<td>SPAN 443</td>
<td>Literature of the Caribbean</td>
<td></td>
</tr>
<tr>
<td>SPAN 445</td>
<td>The Narrative of Spanish America</td>
<td></td>
</tr>
<tr>
<td>SPAN 446</td>
<td>Literature of the Renaissance and the Spanish Golden Age</td>
<td></td>
</tr>
<tr>
<td>SPAN 447</td>
<td>Romanticism and Realism in Spain</td>
<td></td>
</tr>
<tr>
<td>SPAN 448</td>
<td>Twentieth Century Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>SPAN 449</td>
<td>Literature of the Indigenous Peoples of Spanish America</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 28
Undergraduate Degrees

Bachelor of Arts

- Liberal Studies - General Track (p. 336)
- Liberal Studies - Integrated Track (p. 340)
- Liberal Studies - Spanish Studies Track (p. 343)
- Liberal Studies - Arts and Letters Track (p. 335)

Bachelor of Arts 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 (4)
      Four units chosen from:
      - COMM 221 Small Group Communication
      - COMM 225 Fundamentals of Interpersonal Communication
      - COMM 240 Writing for Media
      - COMM 308 Argumentation
      - COMM 311 Business and Professional Communication
      - COMM 312 Persuasion
      - COMM 344 Public Relations Communication
      - ENG 240 Writing in the Public Sphere
      - ENG 316 Introduction to Creative Writing: Specialized Genres
      - ENG 317 Introduction to Creative Writing: Poetry
      - ENG 318 Introduction to Creative Writing: Fiction
      - ENG 417 Intermediate Creative Writing: Poetry

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.

Coordinator: Katherine Thomerson
ENG 418  Intermediate Creative Writing: Fiction
ENG 507  Advanced Creative Writing: Poetry
ENG 508  Advanced Creative Writing: Fiction
ENG 513  Advanced Creative Writing in Specialized Genres
ENG 543A-C Literary Publication
MGMT 350  Administrative Communications

2. Computer Skills (4)
A minimum of four units chosen from:
ART 123  Introduction to Art and Technology
ART 232  Principles of Design Management
ART 238  Production of Visual Information Design
ART 320  Digital Image Editing
ART 322  Web Design
ART 326  Interactive Multimedia Design
CSE 201  Computer Science I
ECTS 519  Computer Applications for Career and Technical Educators
GEOG 202  Introduction to Geographic Information Systems and Cartography
HSCI 273  Software Applications in the Health Sciences
IST 101  Introduction to Information Technology

3. Research Techniques Skills: (4)
A minimum of four units chosen from:
COMM 400  Communication Research Methodology
CJUS 311  Research Methods in Criminal Justice
CJUS 312  Statistics in Criminal Justice
ECON 250  Statistics for Economists
GEOG 305  Geographic Statistics and Research Methods
HSCI 468  Research Methodology in Health Science
MATH 262  Applied Statistics
MATH 165  Introductory Statistics and Hypothesis Testing
MKTG 416  Marketing Research
PHIL 306  Inductive Logic
PSCI 375  Introduction to Political Science Research
PSYC 210  Psychological Statistics
ADMN 210  Applied Business Statistics
SOC 307  Social Research I
GSS 300  Feminist Research Methods

Total Units 12

Bachelor of Arts in Liberal Studies
- General Track (Pre-Credential)

Requirements (173 units)

Basic Program (157)
Group A: Reading, Language, and Literature 28
Group B: History and Social Science 28
Group C: Mathematics 18
Group D: Science 22
Group E: Visual and Performing Arts 13
Group F: Physical Education and Health 10
Group G: Human Development 10
Group H: Additional General Education (GE) Requirements 20
Group I: Additional Liberal Studies Requirements 8

Field of Concentration (16)
Group J: Concentration 16

Total Units 173

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

Group A: Reading, Language, and Literature

1. Freshman Composition (G.E.) (4)
Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 104A</td>
<td>Stretch Composition III</td>
</tr>
<tr>
<td>ENG 104B</td>
<td>Stretch Composition III for Multilingual Students</td>
</tr>
<tr>
<td>ENG 106A</td>
<td>Accelerated Stretch Composition II</td>
</tr>
<tr>
<td>ENG 106B</td>
<td>Accelerated Stretch Composition II for Multilingual Students</td>
</tr>
<tr>
<td>ENG 107</td>
<td>Advanced First-Year Composition</td>
</tr>
</tbody>
</table>

2. Oral Communication (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 120</td>
<td>Oral Communication</td>
</tr>
<tr>
<td>HON 104C</td>
<td>Language and Meaning: Oral Communication (open only to Honors Program students)</td>
</tr>
</tbody>
</table>

3. Lower division Literature (G.E.) (4)
Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 110</td>
<td>World Literature I</td>
</tr>
<tr>
<td>ENG 111</td>
<td>World Literature II</td>
</tr>
<tr>
<td>ENG 160</td>
<td>World Drama</td>
</tr>
<tr>
<td>ENG 170</td>
<td>Studies in Literature</td>
</tr>
<tr>
<td>TA 160</td>
<td>World Drama</td>
</tr>
<tr>
<td>TA 212</td>
<td>Oral Interpretation of Literature</td>
</tr>
</tbody>
</table>

4. Upper division Writing (G.E.) (4)
Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 306</td>
<td>Expository Writing for Education</td>
</tr>
<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
</tr>
<tr>
<td>HON 306</td>
<td>Expository Writing for Honors (open only to Honors Program students)</td>
</tr>
<tr>
<td>HUM 306</td>
<td>Expository Writing for the Humanities</td>
</tr>
<tr>
<td>MGMT 306</td>
<td>Expository Writing for Administration</td>
</tr>
<tr>
<td>NSCI 306</td>
<td>Expository Writing for the Natural Sciences</td>
</tr>
<tr>
<td>SSCI 306</td>
<td>Expository Writing for the Social Sciences</td>
</tr>
</tbody>
</table>

5. Analysis of Literature (4)
Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 301A</td>
<td>Analysis of Poetry</td>
</tr>
<tr>
<td>ENG 302A</td>
<td>Analysis of Drama</td>
</tr>
<tr>
<td>ENG 303A</td>
<td>Analysis of Prose Fiction</td>
</tr>
<tr>
<td>ENG 304A</td>
<td>Analysis of Nonfiction Prose</td>
</tr>
<tr>
<td>TA 302A</td>
<td>Analysis of Drama</td>
</tr>
</tbody>
</table>

6. Linguistics (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
</tr>
</tbody>
</table>

7. Children’s Literature (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 320</td>
<td>Children’s Literature</td>
</tr>
<tr>
<td>or ENG 327</td>
<td>Literature for Adolescents and Young Adults</td>
</tr>
</tbody>
</table>

Total Units: 32

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.

Group B: History and Social Science

1. World Civilization I (G.E.) (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 140</td>
<td>World Civilizations I, the Rise of Civilization</td>
</tr>
<tr>
<td>or HIST 140</td>
<td>World Civilizations I, the Rise of Civilization</td>
</tr>
</tbody>
</table>

2. World Civilization II (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 142</td>
<td>World Civilizations II, the Civilizations of the East and West</td>
</tr>
</tbody>
</table>

3. American Civilization (G.E.) (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 146</td>
<td>American Civilization</td>
</tr>
<tr>
<td>or HIST 200</td>
<td>United States History to 1877</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
</tr>
</tbody>
</table>

5. California History (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 270</td>
<td>California History</td>
</tr>
</tbody>
</table>

6. Economics (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 311</td>
<td>Economics in the Elementary and Middle School</td>
</tr>
</tbody>
</table>

7. Geography (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEC 300</td>
<td>Geography in the Elementary and Middle School Classroom</td>
</tr>
</tbody>
</table>

Total Units: 28

Note: Students must maintain a "C-" or better in this course.

Group C: Mathematics

1. Ideas of Mathematics (G.E.) (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
</tbody>
</table>

2. Fundamental Concepts of Mathematics for Educators (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 301A</td>
<td>Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry</td>
</tr>
<tr>
<td>MATH 301B</td>
<td>Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry</td>
</tr>
<tr>
<td>MATH 301C</td>
<td>Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry</td>
</tr>
</tbody>
</table>

3. Problem Solving in Mathematics (2)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 308</td>
<td>Problem Solving Through Theory and Practice</td>
</tr>
</tbody>
</table>

Total Units: 18

Note: All MATH courses must be passed with a grade of "C" or better.

Group D: Science

1. Life Sciences (G.E.) (5)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
</tr>
</tbody>
</table>

2. Physical Science (G.E.) (10)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>Chemistry in the Modern World</td>
</tr>
<tr>
<td>&amp; PHYS 100</td>
<td>and Physics in the Modern World</td>
</tr>
</tbody>
</table>

3. Earth and Space Science (G.E.) (5)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 311</td>
<td>A Cosmic Perspective of Earth</td>
</tr>
<tr>
<td>GEC 311</td>
<td>The Dynamic Earth</td>
</tr>
</tbody>
</table>

Total Units: 32
GEOL 309  Earth: The Blue Planet

4. Technology (G.E.) (2)
CSE 129  Science, Computing and Society  2

Total Units  22

Group E: Visual and Performing Arts

1. Art Appreciation (G.E.) (4)
Four units in the arts chosen from:

| ART 200 | Studies in Art |
| MUS 180 | Studies in Music |
| TA 260  | Introduction to Theatre |

2. Music Activity (3)
MUS 370  Music for Elementary Classroom Teachers  3

3. Theatre Activity (3)
Three units chosen from:

| TA 481  | Creative Drama in the Classroom |
| TA 484  | Readers Theatre in the Classroom |
| TA 486  | Puppetry in the Classroom |

4. Visual Arts Activity (3)
ART 395  Art in the Classroom  3
or ART 400  Teaching Art in the Elementary Classroom

Total Units  13

Group F: Physical Education and Health

1. Physical Education (G.E.) (2)
Two units chosen from:

| KINE 101A-S | Individual and Dual Activities: |
| KINE 114A-F | Physical Fitness and Conditioning Activities |
| KINE 120A-L | Somatic and Martial Arts Activities: |
| KINE 121A-K | Team Activities: |
| KINE 137A-L | Aquatic Activities: |
| KINE 147    | A Fitness Odyssey |
| KINE 149    | Independent Activity Project |
| KINE 150A-K | Dance Activities: |

2. Physical Fitness (G.E.) (2)
KINE 205  Foundations for Lifetime Fitness and Wellness  2

3. Movement Skills (4)
DAN 481  Creative Dance in the Classroom  4
or KINE 352  Movement for Children

4. Health (2)
HSCI 100  Concepts in Health  2

Total Units  10

Note: Students must maintain a "C-" or better in this course.

Group G: Human Development

1. Child Development (6)
Students must choose 6 units from A or B below:

Group A:

| HD 240 | Introduction to Child Development |

Two units to be taken concurrently with or after HD 240 chosen from:

| HD 246 | Observation and Methods in Child Development: Middle Childhood |
| HD 247 | Observation and Methods in Child Development: Adolescence |

Group B:

| EELB 301 | Growth and Development in Socio-Educational Contexts |

2. Exceptional Child (4)
PSYC 350  Development of Exceptional Children  4

Total Units  10

* Note: Students must maintain a "C-" or better in this course.

Group H: Additional General Education Requirements

1. Critical Thinking (G.E.) (4)
Four units chosen from:

| COMM 180 | Critical Thinking Through Argumentation |
| HON 104A | Language and Meaning: Critical Thinking (open only to Honors Program students) |
| MATH 180 | Critical Thinking Through Applications of Mathematical Logic |
| PHIL 190 | Critical Thinking Through Argument Analysis |
| PHIL 191 | Introduction to Ethics |
| PHIL 192 | Introduction to Philosophy of Religion |
| PHIL 193 | Introduction to Eastern Philosophy |
| PHIL 194 | Introduction to Knowledge and Reality |

2. Philosophy (G.E.) (4)
Four units chosen from:

| HON 104B | Language and Meaning: Introduction to Philosophy (open only to Honors Program students) |
| PHIL 190 | Introduction to Philosophical Issues |
| PHIL 191 | Introduction to Ethics |
| PHIL 192 | Introduction to Philosophy of Religion |
| PHIL 193 | Introduction to Eastern Philosophy |
| PHIL 194 | Introduction to Knowledge and Reality |

3. Foreign Language (G.E.) (4)
Four units chosen from:

<p>| ARAB 103 | College Arabic III |
| ARAB 201 | Intermediate Arabic I |
| ARAB 202 | Intermediate Arabic II |
| ARAB 203 | Intermediate Arabic III |
| ARAB 214 | Conversation in Arabic |
| ASL 103  | American Sign Language III |
| ASL 201  | American Sign Language IV |
| ASL 202  | American Sign Language V |
| ASL 203  | American Sign Language VI |
| CHIN 103 | College Chinese III |
| CHIN 201 | Second Year College Chinese I |
| CHIN 202 | Second Year College Chinese II |
| CHIN 203 | Second Year College Chinese III |
| FLAN 103C-U | Language Study III: |
| FREN 103 | College French III |
| FREN 200 | Culture and Communication |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 201</td>
<td>Culture and Communication II</td>
</tr>
<tr>
<td>FREN 202</td>
<td>Culture and Communication III</td>
</tr>
<tr>
<td>GER 103</td>
<td>College German III</td>
</tr>
<tr>
<td>GER 212</td>
<td>Composition</td>
</tr>
<tr>
<td>GER 214</td>
<td>Conversation</td>
</tr>
<tr>
<td>GER 216</td>
<td>Introduction to Literary Texts</td>
</tr>
<tr>
<td>JAPN 103</td>
<td>College Japanese III</td>
</tr>
<tr>
<td>JAPN 201</td>
<td>Second Year College Japanese I</td>
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<td>JAPN 202</td>
<td>Second Year College Japanese II</td>
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<tr>
<td>JAPN 203</td>
<td>Second Year College Japanese III</td>
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<tr>
<td>KOR 103</td>
<td>College Korean III</td>
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<tr>
<td>KOR 201</td>
<td>Second Year College Korean I</td>
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<tr>
<td>KOR 202</td>
<td>Second Year College Korean II</td>
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<td>KOR 203</td>
<td>Second Year College Korean III</td>
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<tr>
<td>SPAN 103</td>
<td>College Spanish III</td>
</tr>
<tr>
<td>SPAN 201</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<td>SPAN 202</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td>SPAN 203</td>
<td>Intermediate Spanish III</td>
</tr>
<tr>
<td>SPAN 214</td>
<td>Conversation</td>
</tr>
</tbody>
</table>

4. Integrative Capstone in the Humanities (G.E.) (4)

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 319</td>
<td>Myth, Metaphor and Symbol</td>
</tr>
<tr>
<td>HUM 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>HUM 328</td>
<td>Asian Cultural Traditions</td>
</tr>
<tr>
<td>HUM 330</td>
<td>Arts and Ideas</td>
</tr>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
</tr>
<tr>
<td>HUM 340</td>
<td>Interpretation and Values</td>
</tr>
<tr>
<td>HUM 344</td>
<td>Ideas in American Culture</td>
</tr>
<tr>
<td>HUM 350</td>
<td>The Culture of American Childhood</td>
</tr>
<tr>
<td>HUM 370</td>
<td>African Heritage in the Arts</td>
</tr>
<tr>
<td>HUM 375</td>
<td>The World of Islam</td>
</tr>
<tr>
<td>HUM 380</td>
<td>Comparative Studies in the Arts: East and West</td>
</tr>
<tr>
<td>HUM 385</td>
<td>A Cultural History of Fashion</td>
</tr>
</tbody>
</table>

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSCI 300</td>
<td>Nonwestern World</td>
</tr>
<tr>
<td>SSCI 304</td>
<td>Contemporary Latin America</td>
</tr>
<tr>
<td>SSCI 315</td>
<td>Cultural Adaptation: The Quest for Survival</td>
</tr>
<tr>
<td>SSCI 316</td>
<td>Race and Racism</td>
</tr>
<tr>
<td>SSCI 320</td>
<td>Understanding Capitalism</td>
</tr>
<tr>
<td>SSCI 321</td>
<td>Urbanization and the Urban Environment</td>
</tr>
<tr>
<td>SSCI 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>SSCI 345</td>
<td>Religious Expression in America</td>
</tr>
<tr>
<td>SSCI 350</td>
<td>Roots of Modern Racism in America</td>
</tr>
</tbody>
</table>

Total Units: 20

* Note: A placement test must be taken prior to registering for SPAN 101, SPAN 102, or SPAN 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.

** 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.

Group I: Additional Liberal Studies Requirements

1. Assessment (4)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>HUM 197</td>
<td>Assessment Preparation I in Liberal Studies</td>
</tr>
<tr>
<td>HUM 397</td>
<td>Assessment Preparation II in Liberal Studies</td>
</tr>
<tr>
<td>HUM 597</td>
<td>Senior Assessment in Liberal Studies</td>
</tr>
</tbody>
</table>

Total Units: 8

* Note: Must be taken during the first quarter of enrollment.

** Note: Must be taken in either of last two quarters before graduation.

Group J: Concentration

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 Liberal Studies website (http://liberalstudies.csusb.edu) concentrations:

* Anthropology
* Art
* Art, Music and Theatre for Teachers
* Biology
* Chemistry
* Chicano/a and Latino/a Studies
* Communication Studies
* Computer Science
* Dance
* Economics
* Education
* English
* French
* Gender/Sexuality Studies
* Geography
* Geology
* German
* Health Science for Teachers
* History
* Human Development
* Kinesiology (no activity courses)
* Latin American Studies
Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential)

Requirements (201 units)

Total units required for graduation: 201

Subject Matter Program (153)

| Group A: Reading, Language, and Literature | 24 |
| Group B: History and Social Science | 28 |
| Group C: Mathematics | 18 |
| Group D: Science | 22 |
| Group E: Visual and Performing Arts | 13 |
| Group F: Physical Education and Health | 10 |
| Group G: Human Development | 18 |
| Group H: Additional General Education (GE) Requirements | 12 |
| I. Additional Liberal Studies Requirements | 8 |

Multiple Subject Credential Program (48)

| Group J: Phase I | 15 |
| Group K: Phase II | 17 |
| Group L: Phase III | 16 |

Total Units 201

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, EELB 313, EELB 315, EELB 317, and EELB 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

Group A: Reading, Language, and Literature

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

2. Oral Communication (G.E.) (8)
   Four units chosen from:
   - COMM 120  Oral Communication
   - HON 104C  Language and Meaning: Oral Communication (open only to Honors Program students)

3. Lower Division Literature (G.E.) (4)
   Four units chosen from:
   - ENG 110  World Literature I
   - ENG 111  World Literature II
   - ENG 160  World Drama
   - ENG 170  Studies in Literature
   - TA 160  World Drama
   - TA 212  Oral Interpretation of Literature

4. Upper Division Writing (G.E.) (4)
   Four units chosen from:
   - EDUC 306  Expository Writing for Education
   - ENG 306  Expository Writing for English
### Group B: History and Social Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 142</td>
<td>World Civilizations II, the Civilizations of the East and West</td>
</tr>
<tr>
<td>HIST 146</td>
<td>American Civilization</td>
</tr>
<tr>
<td>HIST 200</td>
<td>United States History to 1877</td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
</tr>
<tr>
<td>HIST 270</td>
<td>California History</td>
</tr>
<tr>
<td>ECON 311</td>
<td>Economics in the Elementary and Middle School</td>
</tr>
<tr>
<td>GEOG 300</td>
<td>Geography in the Elementary and Middle School</td>
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<td>Total Units</td>
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### Group C: Mathematics

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<tbody>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
<tr>
<td>MATH 301A</td>
<td>Fundamental Concepts Mathematics Educators:</td>
</tr>
<tr>
<td>MATH 301B</td>
<td>Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry</td>
</tr>
<tr>
<td>MATH 301C</td>
<td>Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry</td>
</tr>
</tbody>
</table>

### Group D: Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemistry in the Modern World</td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Physics in the Modern World</td>
</tr>
<tr>
<td>ASTR 311</td>
<td>A Cosmic Perspective of Earth</td>
</tr>
<tr>
<td>GEOG 311</td>
<td>The Dynamic Earth</td>
</tr>
<tr>
<td>GEOL 309</td>
<td>Earth: The Blue Planet</td>
</tr>
<tr>
<td>CSE 129</td>
<td>Science, Computing and Society</td>
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<td>Total Units</td>
<td>18</td>
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</table>

### Group E: Visual and Performing Arts

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 200</td>
<td>Studies in Art</td>
</tr>
<tr>
<td>MUS 180</td>
<td>Studies in Music</td>
</tr>
<tr>
<td>TA 260</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>MUS 370</td>
<td>Music for Elementary Classroom Teachers</td>
</tr>
<tr>
<td>TA 481</td>
<td>Creative Drama in the Classroom</td>
</tr>
<tr>
<td>TA 484</td>
<td>Readers Theatre in the Classroom</td>
</tr>
<tr>
<td>TA 486</td>
<td>Puppetry in the Classroom</td>
</tr>
<tr>
<td>ART 395</td>
<td>Art in the Classroom</td>
</tr>
<tr>
<td>MUS 370</td>
<td>Music for Elementary Classroom Teachers</td>
</tr>
<tr>
<td>Total Units</td>
<td>13</td>
</tr>
</tbody>
</table>

### Group F: Physical Education and Health

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<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 101A-S</td>
<td>Individual and Dual Activities:</td>
</tr>
<tr>
<td>KINE 114A-F</td>
<td>Physical Fitness and Conditioning Activities:</td>
</tr>
<tr>
<td>KINE 120A-L</td>
<td>Somatic and Martial Arts Activities:</td>
</tr>
<tr>
<td>KINE 121A-K</td>
<td>Team Activities:</td>
</tr>
<tr>
<td>KINE 137A-L</td>
<td>Aquatic Activities:</td>
</tr>
<tr>
<td>KINE 147</td>
<td>A Fitness Odyssey</td>
</tr>
<tr>
<td>KINE 149</td>
<td>Independent Activity Project</td>
</tr>
<tr>
<td>KINE 150A-K</td>
<td>Dance Activities:</td>
</tr>
<tr>
<td>KINE 205</td>
<td>Foundations for Lifetime Fitness and Wellness</td>
</tr>
<tr>
<td>Total Units</td>
<td>20</td>
</tr>
</tbody>
</table>

* This requirement may be met by passing a proficiency examination. No unit credit is awarded for passing the examination.
### 3. Movement Skills (4)
- DAN 481 Creative Dance in the Classroom or KINE 352 Movement for Children

### 4. Health (2)
- HSCI 100 Concepts in Health

**Total Units**: 10

### Group G: Human Development

#### 1. Child Development (6)
Students must choose 6 units from A or B below:
- **Group A:**
  - HD 240 Introduction to Child Development *
  - Two units to be taken concurrently with or after HD 240 chosen from:
    - HD 246 Observation and Methods in Child Development: Middle Childhood
    - HD 247 Observation and Methods in Child Development: Adolescence
- **Group B:**
  - EELB 301 Growth and Development in Socio-Educational Contexts *

#### 2. Exceptional Child (4)
- PSYC 350 Development of Exceptional Children *

#### 3. Integrative Capstone in the Humanities (G.E.) (4)
Four units chosen from:
- HUM 319 Myth, Metaphor and Symbol
- HUM 325 Perspectives on Gender **
- HUM 328 Asian Cultural Traditions **
- HUM 330 Arts and Ideas
- HUM 335 The Origin and Contemporary Role of Latino Culture **
- HUM 340 Interpretation and Values
- HUM 344 Ideas in American Culture
- HUM 350 The Culture of American Childhood **
- HUM 370 African Heritage in the Arts **
- HUM 375 The World of Islam **
- HUM 380 Comparative Studies in the Arts: East and West **
- HUM 385 A Cultural History of Fashion

#### 4. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)
Four units chosen from:
- SSCI 300 Nonwestern World
- SSCI 304 Contemporary Latin America
- SSCI 315 Cultural Adaptation: The Quest for Survival
- SSCI 316 Race and Racism **
- SSCI 320 Understanding Capitalism
- SSCI 321 Urbanization and the Urban Environment
- SSCI 325 Perspectives on Gender **
- SSCI 345 Religious Expression in America

---

### Group H: Additional General Education Requirements

#### 1. Critical Thinking (G.E.) (4)
Four units chosen from:
- COMM 180 Critical Thinking Through Argumentation
- HON 104A Language and Meaning: Critical Thinking (open only to Honors Program students)
- MATH 180 Critical Thinking Through Applications of Mathematical Logic
- PHIL 105 Critical Thinking Through Argument Analysis
- PHIL 190 Introduction to Philosophical Issues
- PHIL 191 Introduction to Ethics
- PHIL 192 Introduction to Philosophy of Religion
- PHIL 193 Introduction to Eastern Philosophy
- PHIL 194 Introduction to Knowledge and Reality

#### 2. Philosophy (G.E.) (4)
Four units chosen from:
- HON 104B Language and Meaning: Introduction to Philosophy (open only to Honors Program students)
- PHIL 190 Introduction to Philosophical Issues
- PHIL 191 Introduction to Ethics
- PHIL 192 Introduction to Philosophy of Religion
- PHIL 193 Introduction to Eastern Philosophy
- PHIL 194 Introduction to Knowledge and Reality

#### 3. Foreign Language (G.E.) (4)
Four units chosen from:
- ARAB 103 College Arabic III
- ARAB 201 Intermediate Arabic I
- ARAB 202 Intermediate Arabic II
- ARAB 203 Intermediate Arabic III
- ARAB 214 Conversation in Arabic
- ASL 103 American Sign Language III
- ASL 201 American Sign Language IV
- ASL 202 American Sign Language V
- ASL 203 American Sign Language VI
- CHIN 103 College Chinese III
- CHIN 201 Second Year College Chinese I
- CHIN 202 Second Year College Chinese II
- CHIN 203 Second Year College Chinese III
- FLAN 103C-U Language Study III:
- FREN 103 College French III
- FREN 200 Culture and Communication
- FREN 201 Culture and Communication II
- FREN 202 Culture and Communication III
- GER 103 College German III
- GER 212 Composition
- GER 214 Conversation

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*Note: Students must maintain a "C-" or better in this course.

**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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 216</td>
<td>Introduction to Literary Texts</td>
</tr>
<tr>
<td>JAPN 103</td>
<td>College Japanese III</td>
</tr>
<tr>
<td>JAPN 201</td>
<td>Second Year College Japanese I</td>
</tr>
<tr>
<td>JAPN 202</td>
<td>Second Year College Japanese II</td>
</tr>
<tr>
<td>JAPN 203</td>
<td>Second Year College Japanese III</td>
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<tr>
<td>KOR 103</td>
<td>College Korean III</td>
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<td>Intermediate Spanish I</td>
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<td>Intermediate Spanish II</td>
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<tr>
<td>SPAN 203</td>
<td>Intermediate Spanish III</td>
</tr>
<tr>
<td>SPAN 214</td>
<td>Conversation</td>
</tr>
</tbody>
</table>

Total Units: 12

**Note:** A placement test must be taken prior to registering for SPAN 101, SPAN 102, or SPAN 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.

### Group I: Additional Liberal Studies Requirements

1. **Assessment (4)**
   - HUM 197 Assessment Preparation I in Liberal Studies * 1
   - HUM 397 Assessment Preparation II in Liberal Studies 1
   - HUM 597 Senior Assessment in Liberal Studies ** 2

2. **Classroom Experiences (4)**
   - EELB 230 Introduction to Education 4

**Multiple Subject Credential Program (0)**

Total Units: 8

* **Note:** Must be taken during the first quarter of enrollment

** **Note:** Must be taken in either of last two quarters before graduation.

### Multiple Subject Credential Program (48 units)

#### Group J: Phase I

- EELB 312 Family, Culture and Schooling 4
- EELB 313 Pedagogical Foundations for English Language Learners 4
- EELB 315 Reading/Language Arts Curriculum and Pedagogy 3
- EELB 317 Educational Psychology for a Diverse Society 4
- EELB 520B Teaching Performance Assessment Seminar: Designing Instruction Task 2 1

Total Units: 16

**Bachelor of Arts in Liberal Studies - Spanish Studies Track**

### Requirements for the B.A. in Liberal Studies - Spanish Studies Track

#### Group A: Reading, Language, and Literature

1. **Freshman Composition (4)**
   - Four units chosen from:
     - ENG 104A Stretch Composition III
     - ENG 104B Stretch Composition III for Multilingual Students
     - ENG 106A Accelerated Stretch Composition II
     - ENG 106B Accelerated Stretch Composition II for Multilingual Students
     - ENG 107 Advanced First-Year Composition
2. Oral Communication (G.E.) (8)
COMM 120 Oral Communication 4
HON 104C Language and Meaning: Oral Communication (open only to Honors Program students) 4

3. Lower Division Literature (G.E.) (4)
Four units chosen from:
- ENG 110 World Literature I
- ENG 111 World Literature II
- ENG 160 World Drama
- ENG 170 Studies in Literature
- TA 160 World Drama
- TA 212 Oral Interpretation of Literature

4. Upper Division Writing (G.E.) (4)
Four units chosen from:
- EDUC 306 Expository Writing for Education
- ENG 306 Expository Writing for English
- HON 306 Expository Writing for Honors (open only to Honors Program students)
- HUM 306 Expository Writing for the Humanities
- MGMT 306 Expository Writing for Administration
- NSCI 306 Expository Writing for the Natural Sciences
- SSCI 306 Expository Writing for the Social Sciences

5. Analysis of Literature (4)
ENG 323 Chicano Literature 4

6. Linguistics (4)
ENG 311 The English Language ** 4

7. Children’s Literature (4)
ENG 320 Childrens Literature 4
or ENG 327 Literature for Adolescents and Young Adults

Total Units 32

* 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

** Note: Students must maintain a “C-” or better in this course.

Group B: History and Social Science

1. World Civilization I (G.E.) (4)
ANTH 140 World Civilization I, the Rise of Civilization 4
or HIST 140 World Civilizations I, the Rise of Civilization

2. World Civilization II (4)
HIST 142 World Civilizations II, the Civilizations of the East and West 4

3. American Civilization (G.E.) (4)
HIST 146 American Civilization 4
or HIST 200 United States History to 1877

PSCI 203 American Government 4

5. California History (4)
HIST 270 California History 4

6. Economics (4)
ECON 311 Economics in the Elementary and Middle School 4

7. Geography (4)
GEOG 300 Geography in the Elementary and Middle School Classroom 4

Total Units 28

Group C: Mathematics

1. Ideas of Mathematics (G.E.) (4)
MATH 115 The Ideas of Mathematics 4

2. Fundamental Concepts of Mathematics for Educators (12)
MATH 301A Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry 4
MATH 301B Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry 4
MATH 301C Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry 4

3. Problem Solving in Mathematics (2)
MATH 308 Problem Solving Through Theory and Practice 2

Total Units 18

Note: All MATH courses must be passed with a grade of “C” or better.

Group D: Science

1. Life Sciences (G.E.) (5)
BIOL 100 Topics in Biology 5

2. Physical Science (G.E.) (10)
CHEM 100 Chemistry in the Modern World 10
PHYS 100 and Physics in the Modern World

3. Earth and Space Science (G.E.) (5)
Five units chosen from:
- ASTR 311 A Cosmic Perspective of Earth
- GEOG 311 The Dynamic Earth
- GEOL 309 Earth: The Blue Planet

4. Technology (G.E.) (2)
CSE 129 Science, Computing and Society 2

Total Units 22

Group E: Visual and Performing Arts

1. Art Appreciation (4)
Four units in the arts chosen from:
- ART 200 Studies in Art
- MUS 180 Studies in Music
- TA 260 Introduction to Theatre

2. Music Activity (3)
MUS 370 Music for Elementary Classroom Teachers 3

3. Theatre Activity (3)
Three units chosen from:
- TA 481 Creative Drama in the Classroom
- TA 484 Readers Theatre in the Classroom
- TA 486 Puppetry in the Classroom

4. Visual Art Activity (3)
ART 395 Art in the Classroom 3
California State University, San Bernardino

Group F: Physical Education and Health

1. Physical Education (G.E.) (2)
   Two units chosen from:
   - KINE 101A-S Individual and Dual Activities
   - KINE 114A-F Physical Fitness and Conditioning Activities
   - KINE 120A-L Somatic and Martial Arts Activities
   - KINE 121A-K Team Activities
   - KINE 137A-L Aquatic Activities
   - KINE 147 A Fitness Odyssey
   - KINE 149 Independent Activity Project
   - KINE 150A-K Dance Activities

2. Physical Fitness (G.E.) (2)
   - KINE 205 Foundations for Lifetime Fitness and Wellness

3. Movement Skills (4)
   - DAN 481 Creative Dance in the Classroom
   - or KINE 352 Movement for Children

4. Health (2)
   - HSCI 100 Concepts in Health

Total Units 13

* Note: Students must maintain a "C-" or better in this course.

Group G: Human Development

1. Child Development (6)
   Students must choose 6 units from A or B below:
   - Group A:
     - HD 240 Introduction to Child Development
   - Two units to be taken concurrently with or after HD 240 chosen from:
     - HD 246 Observation and Methods in Child Development: Middle Childhood
     - HD 247 Observation and Methods in Child Development: Adolescence
   - Group B:
     - EELB 301 Growth and Development in Socio-Educational Contexts

2. Exceptional Child (4)
   - PSYC 350 Development of Exceptional Children

Total Units 10

* Note: Students must maintain a "C-" or better in this course.

Group H: Additional General Education Requirements

1. Critical Thinking (G.E.) (4)
   Four units chosen from:
   - COMM 180 Critical Thinking Through Argumentation
   - HON 104A Language and Meaning: Critical Thinking
   - MATH 180 Critical Thinking Through Applications of Mathematical Logic
   - PHIL 105 Critical Thinking Through Argument Analysis
   - PHIL 200 Critical Thinking Through Symbolic Logic
   - PSYC 105 Critical Thinking Through Problems Analysis
   - SOC 180 Critical Thinking about Social Problems

2. Philosophy (G.E.) (4)
   Four units chosen from:
   - HON 104B Language and Meaning: Introduction to Philosophy
   - PHIL 190 Introduction to Philosophical Issues
   - PHIL 191 Introduction to Ethics
   - PHIL 192 Introduction to Philosophy of Religion
   - PHIL 193 Introduction to Eastern Philosophy
   - PHIL 194 Introduction to Knowledge and Reality

3. Foreign Language (G.E.) (4)
   Four units of a SPAN course chosen in consultation with program coordinator

4. Integrative Capstone in the Humanities (G.E.) (4)
   - HUM 335 The Origin and Contemporary Role of Latino Culture (Students must maintain a grade of "C" or above in this course.) (Meets Multicultural/ Gender Category G1 in G.E.)

5. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)
   - SSCI 304 Contemporary Latin America

Total Units 20

Group I: Additional Liberal Studies Requirements

1. Assessment (4)
   - HUM 197 Assessment Preparation I in Liberal Studies
   - HUM 397 Assessment Preparation II in Liberal Studies
   - HUM 597 Senior Assessment in Liberal Studies

2. Classroom Experiences (4)
   - EELB 230 Introduction to Education

Total Units 8

* Note: Must be taken during the first quarter of enrollment
** Note: Must be taken in either of last two quarters before graduation.

Group J: Spanish Studies

1. Upper division Spanish language skills (9)
   - SPAN 302 Theory and Practice in Composition
   - SPAN 295 Intermediate Skills Assessment
   - SPAN 415 Comparative Linguistics: Spanish/English (Students must maintain a grade of "C" or above in this course.)

2. Spanish Studies Electives (12)
   Twelve units chosen from any upper-division Spanish classes not taken under another category and from the following:
   - ANTH 330 Cross-Cultural Child-Rearing Practices
   - ANTH 354 Cultures of Mexico and Central America
   - ANTH 356 Cultures of South America
   - ANTH 388 Language and Culture
   - ART 328 Mexican Art
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ART 329</td>
<td>Chicano Art</td>
</tr>
<tr>
<td>FLAN 320</td>
<td>Masterpieces of Literature (when the topic is</td>
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<td></td>
<td>Spanish or Latin American Studies)</td>
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<tr>
<td>HIST 390</td>
<td>History of Modern Mexico</td>
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<tr>
<td>HIST 391</td>
<td>Chicano History</td>
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<tr>
<td>HIST 470</td>
<td>Modern Latin America</td>
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<tr>
<td>MUS 351</td>
<td>Latin American Music</td>
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Total Units 21
College of Business and Public Administration

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

College of Business and Public Administration

Lawrence Rose, Dean
Vipin Gupta, Associate Dean
Frank Lin, Associate Dean
Craig Seal, Assistant Dean

Jack Brown Hall, Room 278
(909) 537-5700 College of Business and Public Administration website (http://www.cbpa.csusb.edu)

Jack Brown Hall, Room 282
(909) 537-5703 Master of Business Administration website (http://mba.csusb.edu)

Departments

• Accounting and Finance (https://accountingfinance.csusb.edu)
• Information and Decision Sciences (http://ids.csusb.edu)
• Management (http://management.csusb.edu)
• Marketing (http://marketing.csusb.edu)
• Public Administration (http://pa.csusb.edu)

Bachelor of Arts

Administration
with concentrations in:

• Accounting
• Entrepreneurial Management
• Finance
• Human Resources Management
• Information Systems and Technology
• International Business
• Management
• Marketing
• Public Administration
• Real Estate
• Sports and Entertainment Marketing
• Supply Chain and Transportation Management

Bachelor of Science

Administration
with concentrations in:

• Cyber Security
• Finance - DISCONTINUED Fall 2014
• Information Systems and Technology

Information Systems and Technology

Minors

• Accounting
• Business Administration
• Business Information Mapping
• Entrepreneurship
• Finance
• Human Resources Management
• Information Systems and Technology
• International Business
• Management
• Marketing
• Public Administration
• Real Estate
• Sports and Entertainment Marketing
• Supply Chain Management

Certificates

• Accounting
• Cyber Security
• Human Resources
• Information Systems Management
• Supply Chain Management

Master of Business Administration

• Accredited by AACSB International, the Association to Advance Collegiate Schools of Business
• with concentrations in:
• Accounting
• Business Intelligence and Information Technology
• Cyber Security
• Entrepreneurship
• Finance
• Management
• Marketing Management
• Supply Chain Management

Master of Business Administration for Executives

Master of Business Administration for Professionals

Master of Public Administration

Master of Science

• Accountancy

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 in Program Requirements for a Bachelor's Degree (p. 44), 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.

**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.

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**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: 20
   - 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 Marketing Principles
   - PA 315 Government-Business Relations
   - SCM 304 Principles of Supply Chain Management

   **Total Units** 20

5. MGMT 490 Strategic Management Strategic Management

CBPA Honors Program:

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.

**Emeritus**

Margaret K. Gibbs, Professor

**Undergraduate Degrees**

**Bachelor of Arts in Administration**

- Accounting Concentration (p. 353)
- Entrepreneurial Management Concentration (p. 353)
- Finance Concentration (p. 354)
- Financial Planning Concentration (p. 355)
- Human Resource Management Concentration (p. 355)
• Information Systems and Technology Concentration (p. 356)
• International Business Concentration (p. 357)
• Management Concentration (p. 359)
• Marketing Concentration (p. 359)
• Public Administration Concentration (p. 360)
• Real Estate Concentration (p. 361)
• Sports and Entertainment Marketing Concentration (p. 362)
• Supply Chain and Transportation Management Concentration (p. 362)

Bachelor of Science in Administration
• Cyber Security Concentration (p. 363)
• Finance Concentration - DISCONTINUED Fall 201
• Information (p. 365) Systems and Technology (p. 365)

Graduate Degrees
• Master of Business Administration (p. 406) with focus areas in:
  • Accounting
  • Business Intelligence and Information Technology
  • Cyber Security
  • Entrepreneurship
  • Finance
  • Global Supply Chain Management
  • Management
  • Marketing Management
• Master of Business Administration for Executives (p. 408)
• Master of Business Administration for Professionals (p. 410)

Minors
• Minor in Accounting (p. 412)
• Minor in Business Administration (p. 413)
• Minor in Business Information Mapping (p. 414)
• Minor in Entrepreneurship (p. 415)
• Minor in Finance (p. 416)
• Minor in Human Resources Management (p. 417)
• Minor in Information Systems and Technology (p. 418)
• Minor in International Business (p. 419)
• Minor in Management (p. 420)
• Minor in Marketing (p. 421)
• Minor in Public Administration (p. 422)
• Minor in Real Estate (p. 423)
• Minor in Sports and Entertainment Marketing (p. 424)
• Minor in Supply Chain Management (p. 425)

Certificates
• Accounting (p. 365)
• Cyber Security (p. 366)
• Human Resources (p. 366)
• Information Systems Management (p. 366)
• Supply Chain Management (p. 366)

Courses
ADMN 210. Applied Business Statistics. 4 Units.
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 ADMN 210. Formerly SCM 210.

ADMN 501. Quantitative Methods for Managers. 4 Units.
A review of major analytical methods used by managers to facilitate their decision making, including accounting, finance, operations and other decision science tools.

ADMN 502. Managerial Communication and Policy. 4 Units.
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.

ADMN 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

ADMN 580A. Doing Business Internationally: Asia. 2 Units.
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. Formerly a topic under ADMN 590.

ADMN 580B. Doing Business Internationally: Asia. 4 Units.
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. Formerly a topic under ADMN 590.

ADMN 580C. Doing Business Internationally: India. 2 Units.
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. Formerly a topic under ADMN 590.
ADMN 580D. Doing Business Internationally: India. 4 Units.
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. Formerly a topic under ADMN 590.

ADMN 580E. Doing Business Internationally: Europe. 2 Units.
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. Formerly a topic under ADMN 590.

ADMN 580F. Doing Business Internationally: Europe. 4 Units.
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. Formerly a topic under ADMN 590.

ADMN 580G. Doing Business Internationally: Africa. 2 Units.
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.

ADMN 580H. Doing Business Internationally: Africa. 4 Units.
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.

ADMN 580I. Doing Business Internationally: Latin America. 2 Units.
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.

ADMN 580J. Doing Business Internationally: Latin America. 4 Units.
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.

ADMN 580K. Doing Business Internationally: Middle East. 2 Units.
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.

ADMN 580L. Doing Business Internationally: Middle East. 4 Units.
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.

ADMN 580M. Doing Business Internationally: Korea. 2 Units.
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.

ADMN 580N. Doing Business Internationally: Korea. 4 Units.
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.

ADMN 590B. Seminar in Administration. 2 Units.
Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 590C. Seminar in Administration. 3 Units.
Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 590D. Seminar in Administration. 4 Units.
Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 601. Data-Driven Decision Making. 4 Units.
Advanced problem-solving qualitative and quantitative techniques to find, frame and solve difficult issues.

ADMN 602. Advanced Managerial Communications. 4 Units.
Introduces students to the principles of communication strategy and persuasion, with a focus on written and oral presentation assignments to increase student proficiency in managerial communication. Satisfies the graduate writing requirement.

ADMN 604. Managing Cost, Operations, and Financial Reporting. 4 Units.
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.
ADMN 605. Product Development and Distribution. 4 Units.
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.

ADMN 675. Internship. 4 Units.
Prerequisites: consent of instructor and department's internship coordinator
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.

ADMN 690B. Advanced Topics in Administration. 2 Units.
Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 690C. Advanced Topics in Administration. 3 Units.
Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 690D. Advanced Topics in Administration. 4 Units.
Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 691. Culminating Business Analyst Project. 4 Units.
Capstone course develops the future manager's business analysis skills, integrating knowledge from the MBA Foundation and Essentials courses. Students will develop a comprehensive, written assessment that addresses a real, substantive business problem. Two hours seminar and two hours business assessment project.

ADMN 695A. Directed Graduate Studies. 1 Unit.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

ADMN 695B. Directed Graduate Studies. 2 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

ADMN 695C. Directed Graduate Studies. 3 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

ADMN 695D. Directed Graduate Studies. 4 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

ADMN 695E. Directed Graduate Studies. 5 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

ADMN 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
ADMN 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 995. MBA Portfolio. 0 Units.
Prerequisites: completion of 32 units in the program
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.

ADMN 998. Comprehensive Project. 0 Units.
In consultation with a faculty advisor, completion and defense of a written project based on his or her concentration before a committee of graduate faculty. Open only to students who have been advanced to candidacy and with the approval of the college graduate director.

ADMN 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing. May be taken any fall, winter or spring term after advancement to candidacy
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter in the concentration.
B.A. in Administration Accounting Concentration

Requirements (92-100 units)

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)

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
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<tbody>
<tr>
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<td>4</td>
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<td>Introductory Accounting II</td>
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<td>ECON 200</td>
<td>Principles of Microeconomics</td>
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</tr>
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<td>4</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
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</tr>
</tbody>
</table>

Four units chosen from (also meets the General Education requirement category B1):

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<tbody>
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<td>College Algebra</td>
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</tbody>
</table>

Upper-division core requirements (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tr>
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<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
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<tr>
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<td>4</td>
</tr>
<tr>
<td>PA 315</td>
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<tr>
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</tr>
</tbody>
</table>

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)

See concentration.

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

Lower-division requirements 32

Upper-division requirements 36

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ACCT 315</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 347</td>
<td>Management Accounting and Decision</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 372</td>
<td>Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 373</td>
<td>Problem Areas in Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 426</td>
<td>Introduction to Taxation</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 440</td>
<td>Financial Statement Auditing</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 574</td>
<td>Reporting Issues in Intermediate Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>

Two or more units to be chosen from the following in consultation with 2-4 advisor:

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</thead>
<tbody>
<tr>
<td>ACCT 442</td>
<td>Internal and Operational Auditing</td>
<td></td>
</tr>
<tr>
<td>ACCT 468</td>
<td>Accounting for Government and Not-for-Profit Organizations</td>
<td></td>
</tr>
<tr>
<td>ACCT 536</td>
<td>Corporate and Partnership Taxation</td>
<td></td>
</tr>
<tr>
<td>ACCT 539</td>
<td>Advanced Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 541</td>
<td>EDP Auditing and Control</td>
<td></td>
</tr>
<tr>
<td>ACCT 544</td>
<td>Accounting Law, Ethics and Institutions</td>
<td></td>
</tr>
<tr>
<td>ACCT 547</td>
<td>Cost Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 556</td>
<td>Estates and Gifts and other Specialized</td>
<td></td>
</tr>
<tr>
<td>ACCT 575</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>ACCT 595B</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ACCT 595D</td>
<td>Independent Study</td>
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</tr>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 98-100

B.A. in Administration Entrepreneurial Management Concentration

Requirements (92-100 units)

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)

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Four units chosen from (also meets the General Education requirement category B1):

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Upper-division core requirements (36)

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<th>Course</th>
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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.
FIN 313  Business Finance  4
FIN 314  Corporate Financial Management  4
IST 309  Information Systems and Technology  4
MGMT/PSYC 302  Management and Organizational Behavior  4
MGMT 330  Legal Environment of Business  4
MGMT 490  Strategic Management  4
MKTG 305  Marketing Principles  4
PA 315  Government-Business Relations  4
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)
See concentration. 24-32

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.

Entrepreneurial Management Concentration

Lower-division requirements 32
Upper-division requirements 36

MGMT 543  New Venture Opportunity Analysis  4
MGMT 544  New Venture Development  4
MGMT 545  New Venture Resource Requirements  4
MGMT 549  Launching the Entrepreneurial Venture  4

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  4
MKTG 430  Professional Selling and Sales Management  4
MKTG 460  Retailing  4
MGMT 998  Baccalaureate Reflective Essay  0

Total Units 92

B.A. in Administration Finance Concentration

Requirements (92-100 units)

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)
ACCT 211  Introductory Accounting I  4
ACCT 212  Introductory Accounting II  4
ECON 200  Principles of Microeconomics  4
ECON 202  Principles of Macroeconomics  4
IST 101  Introduction to Information Technology  4
MGMT 230  Business Law  4
ADMN 210  Applied Business Statistics  4

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)
FIN 313  Business Finance  4
FIN 314  Corporate Financial Management  4
IST 309  Information Systems and Technology  4
MGMT/PSYC 302  Management and Organizational Behavior  4
MGMT 330  Legal Environment of Business  4
MGMT 490  Strategic Management  4
MKTG 305  Marketing Principles  4
PA 315  Government-Business Relations  4
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)
See concentration. 24-32

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.

Finance Concentration

Lower-division requirements 32

Upper-division requirements 36
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
or FIN 527  Financial Derivatives  4
Four units chosen from:

- ACCT 372 Intermediate Accounting
- ACCT 373 Problem Areas in Intermediate Accounting
- ACCT 426 Introduction to Taxation
- ACCT 536 Corporate and Partnership Taxation
- ECON 410 Money and Banking
- ECON 475 Public Finance
- FIN 355 Business and Asian Culture
- FIN 360 Financial Planning Process and Insurance
- FIN 380 Principles of Real Estate
- FIN 420 Entrepreneurial Finance
- FIN 460 Retirement Planning
- FIN 534 Export-Import Financing
- FIN 546 Student Managed Investment Fund
- FIN 575 Internship
- FIN 585 Real Estate Finance
- MGMT 442 Small Business Management
- SCM 350 Decision Making in Supply Chain and Transportation Management

Total Units 92

B.A. in Administration Financial Planning Concentration

B.A. in Administration

Requirements (92-100 units)

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)

- ACCT 211 Introductory Accounting I 4
- ACCT 212 Introductory Accounting II 4
- ECON 200 Principles of Microeconomics 4
- ECON 202 Principles of Macroeconomics 4
- IST 101 Introduction to Information Technology 4
- MGMT 230 Business Law 4
- ADMN 210 Applied Business Statistics 4

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)

- FIN 313 Business Finance 4
- FIN 314 Corporate Financial Management 4
- IST 309 Information Systems and Technology 4
- MGMT/PSYC 302 Management and Organizational Behavior 4
- MGMT 330 Legal Environment of Business 4
- MGMT 490 Strategic Management 4
- MKTG 305 Marketing Principles 4
- PA 315 Government-Business Relations 4
- 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)

See concentration. 24-32

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.

Financial Planning Concentration (28 units)

- ACCT 426 Introduction to Taxation 4
- FIN 360 Financial Planning Process and Insurance 4
- FIN 430 Financial Theory and Practice 4
- FIN 435 Investment Analysis 4
- FIN 460 Retirement Planning 4

Eight units chosen from:

- ACCT 536 Corporate and Partnership Taxation
- ACCT 556 Estates and Gifts and other Specialized
- FIN 380 Principles of Real Estate
- FIN 433 International Business Finance
- FIN 445 Financial Analysis and Decision-Making
- FIN 523 Security Trading and Analysis
- FIN 585 Real Estate Finance
- MGMT 442 Small Business Management
- MKTG 430 Professional Selling and Sales Management

Total Units 28

B.A. in Administration Human Resource Management Concentration

B.A. in Administration

Requirements (92-100 units)

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.
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Four units chosen from (also meets the General Education requirement category B1):

- MATH 110 College Algebra
- MATH 120 Pre-Calculus Mathematics
- MATH 192 Methods of Calculus
- MATH 211 Basic Concepts of Calculus

### Upper-division core requirements (36)

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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)

See concentration.

**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.

### Human Resource Management Concentration (24 units)

#### Lower-division requirements

32

#### Upper-division requirements

36

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<tr>
<th>Course</th>
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<th>Units</th>
</tr>
</thead>
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<tr>
<td>MGMT 455</td>
<td>Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 456</td>
<td>Developing an Effective Workforce</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 355</td>
<td>Industrial Psychology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 457</td>
<td>Industrial and Labor Relations</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 458</td>
<td>Fair Employment Practices</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 470</td>
<td>Strategic Human Resource Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

- HSCI 381 Occupational Safety
- HSCI 436 Human Resources Management in Health Care
- MGMT 459 Work Group Management
- MGMT 575 Internship

### 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)

See concentration.

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

### B.A. in Administration Information Systems and Technology Concentration

#### Requirements (92-100 units)

#### 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)

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Four units chosen from (also meets the General Education requirement category B1):

- MATH 110 College Algebra
- MATH 120 Pre-Calculus Mathematics
- MATH 192 Methods of Calculus
- MATH 211 Basic Concepts of Calculus

### Upper-division core requirements (36)

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### Concentration (24-32)

See concentration.

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

Information Systems and Technology Concentration (24 units)

Lower-division requirements 32
Upper-division requirements 36
Eight units of electives chosen from any 100- or 200-level IST courses.

IST 372 Information Technology 4
IST 378 Problem Solving and Risk Management 4
IST 490 Information Systems Planning and Policy 4

Four units of electives chosen from any 300-, 400- and 500-level IST courses.

Total Units 92

B.A. in Administration International Business Concentration

Requirements (92-100 units)
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)
ACCT 211 Introductory Accounting I 4
ACCT 212 Introductory Accounting II 4
ECON 200 Principles of Microeconomics 4
ECON 202 Principles of Macroeconomics 4
IST 101 Introduction to Information Technology 4
MGMT 230 Business Law 4
ADMN 210 Applied Business Statistics 4

Four units chosen from (also meets the General Education requirement category B1):
MATH 110 College Algebra
MATH 120 Pre-Calculus Mathematics
MATH 192 Methods of Calculus
MATH 211 Basic Concepts of Calculus

Upper-division core requirements (36)
FIN 313 Business Finance 4
FIN 314 Corporate Financial Management 4
IST 309 Information Systems and Technology 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)
See concentration. 24-32

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.

International Business Concentration (32 units)

Students are required to attend a mandatory international business advising session towards the end of the first quarter of the junior year.

Lower-division requirements 32
Upper-division requirements 36
MGMT 405 Managing Across Borders 4
Eight units chosen from (courses cannot double count in the specialty):
ADMN 575 Internship (must have international focus)
ADMN 590B-D Seminar in Administration
FIN 433 International Business Finance
MGMT 526 Global Entrepreneurship
MKTG 470 International Marketing Management
SCM 445 International Logistics

Course cannot double count in the specialty below, ADMN 590 may be taken only once and may not substitute for another course.

Eight units of 200-level or higher course work in the same approved foreign language.

MGMT 998 Baccalaureate Reflective Essay 0

Twelve units chosen from one of the following three specialties: 12

Total Units 100
Approved foreign languages are Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish. Additional foreign languages may be approved by the Chair of the Department of Management. Courses must not be taught in English.

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.

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.

Specialties

Study Abroad Specialty (12 units)

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

Regional Specialty (12 units)

Eight units of regional courses chosen from one of the following categories:

Asia
- ANTH 358 Peoples of the Middle East 4
- ANTH 362 Asian Cultures and Societies 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 (application and entrance exam required) 4

Europe
- HIST 503 Europe Since 1945 4
- MGMT 408 Managing in Europe 4
- PSCI 304 East European Political Systems 4
- PSCI 590 Seminar in International Relations 4

Latin America
- ANTH 354 Cultures of Mexico and Central America 4
- ANTH 356 Cultures of South America 4
- ECON 540 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 of the Americas 4
- SSCI 304 Contemporary Latin America 4

Four units of breadth electives, chosen from:
- ANTH 341 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

Functional Specialty (12 units)

Twelve units of functional courses chosen from one of the following categories:

International Business
- FIN 433 International Business Finance 4
- MKTG 470 International Marketing Management 4
- SCM 445 International Logistics 4

Entrepreneurial Management
- MGMT 526 Global Entrepreneurship 5
- MGMT 543 New Venture Opportunity Analysis 4
- MGMT 549 Launching the Entrepreneurial Venture 4

Finance
- FIN 432 Financial Institutions and Capital Formation 4
- FIN 433 International Business Finance 4
- FIN 435 Investment Analysis 4

Human Resources
- MGMT 455 Human Resources Management 4
- MGMT 456 Developing an Effective Workforce 4
- MGMT 458 Fair Employment Practices 4

Information Management
- IST 274 Data Base Management and Policies 4
- IST 275 Information Networking and Security 4

Four units chosen from any upper-division IST courses 4

Management
- MGMT 442 Small Business Management 4
Eight units chosen from any upper-division MGMT courses 8

Marketing
- MKTG 410 Consumer Behavior 4
- MKTG 416 Marketing Research 4
- MKTG 470 International Marketing Management 4
Sports and Entertainment Marketing
MKTG 525 Sports and Entertainment Marketing 4
MKTG 550 Advanced Sports Marketing Planning and Strategy 4
MKTG 555 Advanced Entertainment Marketing Planning and Strategy 4

Supply Chain and Transportation Management
SCM 305 Enterprise Resource Planning 4
SCM 445 International Logistics 4
SCM 480 Quality Management 4

B.A. in Administration Management Concentration

Requirements (92-100 units)

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)
ACCT 211 Introductory Accounting I 4
ACCT 212 Introductory Accounting II 4
ECON 200 Principles of Microeconomics 4
ECON 202 Principles of Macroeconomics 4
IST 101 Introduction to Information Technology 4
MGMT 230 Business Law 4
ADMN 210 Applied Business Statistics 4

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)
FIN 313 Business Finance 4
FIN 314 Corporate Financial Management 4
IST 309 Information Systems and Technology 4
MGMT/PSYC 302 Management and Organizational Behavior 4
MGMT 330 Legal Environment of Business 4
MGMT 490 Strategic Management 4
MGMT 305 Marketing Principles 4
PA 315 Government-Business Relations 4
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 MKTG 490.

Concentration (24-32)
See concentration.

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.

Management Concentration (24 units)

Lower-division requirements 32
Upper-division requirements 36
MGMT 335 Business, Ethics, and Society 4
MGMT 350 Administrative Communications 4
MGMT 455 Human Resources Management 4

Twelve units chosen from:

MGMT 402 Studies in Organizational Behavior
MGMT 405 Managing Across Borders
MGMT 406 International Business Law
MGMT 442 Small Business Management
MGMT 451 Organization and Management Theory
MGMT 452 Leading Effectively and Ethically
MGMT 457 Industrial and Labor Relations
MGMT 459 Work Group Management
MGMT 515 Business Consulting
MGMT 575 Internship
MGMT 590B-D Seminar in Management (for a total of 4 units)

MGMT 998 Baccalaureate Reflective Essay 0

Total Units 92

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

B.A. in Administration Marketing Concentration

Requirements (92-100 units)

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)
ACCT 211 Introductory Accounting I 4
ACCT 212 Introductory Accounting II 4
ECON 200 Principles of Microeconomics 4
ECON 202 Principles of Macroeconomics 4
IST 101 Introduction to Information Technology 4
PA 315 Government-Business Relations 4
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 MKTG 490.

Concentration (24-32)
Four units chosen from (also meets the General Education requirement category B1):

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
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<td>Methods of Calculus</td>
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<tr>
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</tr>
</tbody>
</table>

**Upper-division core requirements (36)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
</tr>
<tr>
<td>MGMT/PSYC 302</td>
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</tr>
<tr>
<td>MGMT 330</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>MGMT 490</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>PA 315</td>
<td>Government-Business Relations</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
</tr>
</tbody>
</table>

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)**

See concentration.

- 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.

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**Marketing Concentration**

- **Lower-division requirements**
- **Upper-division requirements**
- **MKTG 410** | Consumer Behavior |
- **MKTG 416** | Marketing Research |
- **MKTG 436** | Marketing Decision-Making |
- **MKTG 496** | Marketing Planning and Strategy |
- **MKTG 420** | Advertising |
- or **MKTG 430** | Professional Selling and Sales Management |
- **Four units of 400- or 500-level MKTG courses chosen from:**
  - **MKTG 415** | Product Management |
  - **MKTG 420** | Advertising (if not taken previously) |
  - **MKTG 430** | Professional Selling and Sales Management (if not taken previously) |
  - **MKTG 446** | Advertising Campaign |
  - **MKTG 460** | Retailing |
  - **MKTG 470** | International Marketing Management |
  - **MKTG 520** | Integrated Marketing Communication |
  - **MKTG 525** | Sports and Entertainment Marketing |
  - **MKTG 550** | Advanced Sports Marketing Planning and Strategy |
  - **MKTG 555** | Advanced Entertainment Marketing Planning and Strategy |
  - **MKTG 560** | Services Marketing |

**Upper-division core requirements (36)**

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<th>Course</th>
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<td>IST 309</td>
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<tr>
<td>MGMT/PSYC 302</td>
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</tr>
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<td>MGMT 330</td>
<td>Legal Environment of Business</td>
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<tr>
<td>MGMT 490</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>PA 315</td>
<td>Government-Business Relations</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
</tr>
</tbody>
</table>

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)**

See concentration.
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.

Public Administration Concentration (32 units)

Lower-division requirements 32

Upper-division requirements 36

PA 380 Introduction to Public Administration 4
PA 462 Public Personnel Administration 4
PA 463 Governmental Budgeting 4
PSCI 320 The Legislative Process 4
or PSCI 330 State and Local Politics

Eight units chosen from:

PA 305 Organizations in Multicultural and Diverse Societies
PA 501 Administrative Leadership
PA 514 Management of Private Nonprofit Organizations
PA 516 Public and Non-Profit Project Management
PA 521 Principles of Planning
PA 540 Introduction to Tribal Management and Governance
PA 557 Public Sector Labor Relations
PA 564 Local Public Administration
PA 568 Accounting for Government and Not-for-Profit Organizations
PA 573 Public Transportation Planning, Policy and Regulation
PA 575 Internship
PA 590 Seminar in Public Administration
PA 595B Independent Study
PA 595D Independent Study

Total Units 92

B.A. in Administration Real Estate Concentration

Requirements (92-100 units)

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)

ACCT 211 Introductory Accounting I 4
ACCT 212 Introductory Accounting II 4
ECON 200 Principles of Microeconomics 4

Upper-division requirements (36)

FIN 380 Principles of Real Estate 4
FIN 432 Financial Institutions and Capital Formation 4
FIN 480 Real Estate Appraisal 4
FIN 481 Real Estate Practice 4
or FIN 485 Legal Aspects of Real Estate
FIN 585 Real Estate Finance 4

Four units chosen from:

ACCT 347 Management Accounting and Decision
ACCT 372 Intermediate Accounting
ACCT 373 Problem Areas in Intermediate Accounting
ACCT 426 Introduction to Taxation
ACCT 536 Corporate and Partnership Taxation
ECON 410 Money and Banking
FIN 355 Business and Asian Culture
FIN 360 Financial Planning Process and Insurance
FIN 433 International Business Finance

ECON 202 Principles of Macroeconomics 4
IST 101 Introduction to Information Technology 4
MGMT 230 Business Law 4
ADMN 210 Applied Business Statistics 4

Four units chosen from (also meets the General Education requirement category B1):

MATH 110 College Algebra
MATH 120 Pre-Calculus Mathematics
MATH 192 Methods of Calculus
MATH 211 Basic Concepts of Calculus

Upper-division core requirements (36)

FIN 313 Business Finance 4
FIN 314 Corporate Financial Management 4
IST 309 Information Systems and Technology 4
MGMT/PSYC 302 Management and Organizational Behavior 4
MGMT 330 Legal Environment of Business 4
MGMT 490 Strategic Management 4
MKTG 305 Marketing Principles 4
PA 315 Government-Business Relations 4
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)

See concentration. 24-32

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.

Real Estate Concentration (24 units)

Lower-division requirements 32

Upper-division requirements 36

FIN 380 Principles of Real Estate 4
FIN 432 Financial Institutions and Capital Formation 4
FIN 480 Real Estate Appraisal 4
FIN 481 Real Estate Practice 4
or FIN 485 Legal Aspects of Real Estate
FIN 585 Real Estate Finance 4

Four units chosen from:

ACCT 347 Management Accounting and Decision
ACCT 372 Intermediate Accounting
ACCT 373 Problem Areas in Intermediate Accounting
ACCT 426 Introduction to Taxation
ACCT 536 Corporate and Partnership Taxation
ECON 410 Money and Banking
FIN 355 Business and Asian Culture
FIN 360 Financial Planning Process and Insurance
FIN 433 International Business Finance
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FIN 435</td>
<td>Investment Analysis</td>
</tr>
<tr>
<td>FIN 445</td>
<td>Financial Analysis and Decision-Making</td>
</tr>
<tr>
<td>FIN 460</td>
<td>Retirement Planning</td>
</tr>
<tr>
<td>FIN 481</td>
<td>Real Estate Practice (if not taken previously)</td>
</tr>
<tr>
<td>FIN 482</td>
<td>Real Estate Development</td>
</tr>
<tr>
<td>FIN 485</td>
<td>Legal Aspects of Real Estate (if not taken previously)</td>
</tr>
<tr>
<td>FIN 523</td>
<td>Security Trading and Analysis</td>
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<tr>
<td>FIN 546</td>
<td>Student Managed Investment Fund</td>
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<tr>
<td>FIN 575</td>
<td>Internship</td>
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<tr>
<td>MKTG 430</td>
<td>Professional Selling and Sales Management</td>
</tr>
</tbody>
</table>

**Total Units** 92

### B.A. in Administration Sports and Entertainment Marketing

**Requirements (92-100 units)**

**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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 211</td>
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<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from (also meets the General Education requirement category B1):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
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</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
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</tbody>
</table>

**Upper-division core requirements (36)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT/PSYC 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 330</td>
<td>Legal Environment of Business</td>
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<td>Strategic Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
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<tr>
<td>PA 315</td>
<td>Government-Business Relations</td>
<td>4</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

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)**

See concentration. 24-32

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.

**Sports and Entertainment Marketing Concentration (24 units)**

<table>
<thead>
<tr>
<th>Lower-division requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 525</td>
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<tr>
<td>MKTG 550</td>
<td>4</td>
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<tr>
<td>MKTG 555</td>
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</tbody>
</table>

**Twelve units chosen from:** 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 410</td>
<td>Consumer Behavior</td>
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</tr>
<tr>
<td>MKTG 416</td>
<td>Marketing Research</td>
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<tr>
<td>MKTG 420</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 430</td>
<td>Professional Selling and Sales Management</td>
<td></td>
</tr>
</tbody>
</table>

May choose only one of the following two courses for a total of four units toward the degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 575D</td>
<td>Internship</td>
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</tr>
<tr>
<td>MKTG 590</td>
<td>Seminar in Marketing</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 92

### B.A. in Administration Supply Chain and Transportation Management Concentration

**Requirements (92-100 units)**

**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)**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>ACCT 211</td>
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<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
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</tbody>
</table>

**Upper-division core requirements (36)**

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<th>Units</th>
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<td>FIN 313</td>
<td>Business Finance</td>
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<td>MGMT 490</td>
<td>Strategic Management</td>
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<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>PA 315</td>
<td>Government-Business Relations</td>
<td>4</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units** 92
ADMN 210  Applied Business Statistics  4
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)
FIN 313  Business Finance  4
FIN 314  Corporate Financial Management  4
IST 309  Information Systems and Technology  4
MGMT/PSYC 302  Management and Organizational Behavior  4
MGMT 330  Legal Environment of Business  4
MGMT 490  Strategic Management  4
MKTG 305  Marketing Principles  4
PA 315  Government-Business Relations  4
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)
See concentration.  24-32

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.

Supply Chain and Transportation Management Concentration (28 units)
Lower-division requirements  32
Upper-division requirements  36
SCM 305  Enterprise Resource Planning  4
SCM 350  Decision Making in Supply Chain and Transportation Management  4
SCM 440  Transportation Systems Management  4
SCM 480  Quality Management  4
SCM 490  Logistics Strategy  4
Four units chosen from:  4
  GEOG 307  Transportation Issues and Development
  IST 280  Information Mapping and Data Visualization
  SCM 505  Advanced Enterprise Resource Planning
  or IST 505  Advanced Enterprise Resource Planning
  SCM 445  International Logistics
  SCM 575  Internship
  SCM 595B  Independent Study
  SCM 595D  Independent Study

Total Units  92

B.S. in Administration Cyber Security Concentration

B.S. in Administration
Requirements (112 units)
Total units required for graduation: 194

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)
ACCT 211  Introductory Accounting I  4
ACCT 212  Introductory Accounting II  4
ADMN 210  Applied Business Statistics  4
ECON 200  Principles of Microeconomics  4
ECON 202  Principles of Macroeconomics  4
IST 101  Introduction to Information Technology  4
MGMT 230  Business Law  4
Four units chosen from (also meets the General Education requirement category B1):
  MATH 110  College Algebra
  MATH 120  Pre-Calculus Mathematics
  MATH 192  Methods of Calculus
  MATH 211  Basic Concepts of Calculus

Upper-division core requirements (36)
FIN 313  Business Finance  4
FIN 314  Corporate Financial Management  4
IST 309  Information Systems and Technology  4
MGMT 302  Management and Organizational Behavior  4
or PSYC 302  Management and Organizational Behavior
MGMT 330  Legal Environment of Business  4
MGMT 490  Strategic Management  4
MKTG 305  Marketing Principles  4
PA 315  Government-Business Relations  4
SCM 304  Principles of Supply Chain Management  4

Concentration (44)
See concentration.  44

Note: The concentration electives should be chosen from the
electives listed for the 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.

Cyber Security Concentration
Lower-division requirements  32
Upper-division requirements  36
IST 276  Systems Analysis and Design  4
IST 372  Information Technology  4
IST 378  Problem Solving and Risk Management  4
B.S. in Administration Finance Concentration

B.S. in Administration

Requirements (112 units)

Total units required for graduation: 194

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from (also meets the General Education requirement category B1):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
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</tr>
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<td>Methods of Calculus</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
</tbody>
</table>

Upper-division core requirements (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 330</td>
<td>Legal Environment of Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 490</td>
<td>Strategic Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>PA 315</td>
<td>Government-Business Relations</td>
<td>4</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration (44)

See concentration.

Finance Concentration

Lower-division requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 360</td>
<td>Financial Planning Process and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>or FIN 380</td>
<td>Principles of Real Estate</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-division requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 372</td>
<td>Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 373</td>
<td>Problem Areas in Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 426</td>
<td>Introduction to Taxation</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 536</td>
<td>Corporate and Partnership Taxation</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 547</td>
<td>Cost Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 556</td>
<td>Estates and Gifts and other Specialized</td>
<td>4</td>
</tr>
<tr>
<td>ECON 410</td>
<td>Money and Banking</td>
<td>4</td>
</tr>
<tr>
<td>ECON 475</td>
<td>Public Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
<td>4</td>
</tr>
<tr>
<td>FIN 360</td>
<td>Financial Planning Process and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 380</td>
<td>Principles of Real Estate</td>
<td>4</td>
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<tr>
<td>FIN 420</td>
<td>Entrepreneurial Finance</td>
<td>4</td>
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<tr>
<td>FIN 460</td>
<td>Retirement Planning</td>
<td>4</td>
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<tr>
<td>FIN 480</td>
<td>Real Estate Appraisal</td>
<td>4</td>
</tr>
<tr>
<td>FIN 523</td>
<td>Security Trading and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>FIN 534</td>
<td>Export-Import Financing</td>
<td>4</td>
</tr>
<tr>
<td>FIN 546</td>
<td>Student Managed Investment Fund</td>
<td>4</td>
</tr>
<tr>
<td>FIN 575</td>
<td>Internship</td>
<td>4</td>
</tr>
<tr>
<td>FIN 585</td>
<td>Real Estate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 590</td>
<td>Seminar in Finance</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 442</td>
<td>Small Business Management</td>
<td>4</td>
</tr>
<tr>
<td>SCM 350</td>
<td>Decision Making in Supply Chain and Transportation Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 112

Note: Students interested in taking the CFP examination should take the following as their electives: ACCT 426, ACCT 536, ACCT 556 and FIN 360.
# B.S. in Administration Information Systems and Technology Concentration

## B.S. in Administration

### Requirements (112 units)

**Total units required for graduation:** 194

### 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)

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<td>ACCT 211</td>
<td>Introductory Accounting I</td>
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<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
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</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from (also meets the General Education requirement category B1):

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</tbody>
</table>

#### Upper-division core requirements (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
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<td>or PSYC 302</td>
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<td>Government-Business Relations</td>
<td>4</td>
</tr>
<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

### Concentration (44)

See concentration.

Note: The concentration electives should be chosen from the electives listed for the 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.

#### Information Systems and Technology Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 274</td>
<td>Data Base Management and Policies</td>
<td>4</td>
</tr>
<tr>
<td>IST 275</td>
<td>Information Networking and Security</td>
<td>4</td>
</tr>
<tr>
<td>IST 372</td>
<td>Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 378</td>
<td>Problem Solving and Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 490</td>
<td>Information Systems Planning and Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

Twenty-four units chosen from any IST courses not already meeting administration core or concentration requirements (16 units must be from 300-400- and 500-level courses).

**Total Units**: 112

### Information Systems Specialty Area (32 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 372</td>
<td>Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 378</td>
<td>Problem Solving and Risk Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Twenty-four units chosen from any IST courses (16 units must be from 300-400- and 500-level courses)

**Total Units**: 32

## Certificate in Accounting

### Requirements (36 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 315</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 347</td>
<td>Management Accounting and Decision</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 372</td>
<td>Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 373</td>
<td>Problem Areas in Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 426</td>
<td>Introduction to Taxation</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 440</td>
<td>Financial Statement Auditing</td>
<td>4</td>
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</table>

Four units chosen in consultation with an advisor from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 442</td>
<td>Internal and Operational Auditing</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 468</td>
<td>Accounting for Government and Not-for-Profit Organizations</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 536</td>
<td>Corporate and Partnership Taxation</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 539</td>
<td>Advanced Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 541</td>
<td>EDP Auditing and Control</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 544</td>
<td>Accounting Law, Ethics and Institutions</td>
<td>4</td>
</tr>
</tbody>
</table>
**Certificate in Cyber Security**

**Requirements (24 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 410</td>
<td>Information Systems Security Professionals</td>
<td>4</td>
</tr>
<tr>
<td>IST 415</td>
<td>Security Systems Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 490</td>
<td>Information Systems Planning and Policy</td>
<td>4</td>
</tr>
<tr>
<td>IST 511</td>
<td>Cyber Defense</td>
<td>4</td>
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<tr>
<td><strong>Total Units</strong></td>
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</table>

**Certificate in Human Resources**

**Requirements (24 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

**Certificate Requirements**

**Lower-division requirements (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Twelve units chosen from any IST 100- and 200-level courses.</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Upper-division requirements (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Twelve units chosen from any IST 300-, 400- and 500-level courses</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**Certificate in Supply Chain Management**

**Requirements (32 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

**Certificate Requirements**

**Lower-division requirements (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Twelve units chosen from any IST 100- and 200-level courses.</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Upper-division requirements (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Twelve units chosen from any IST 300-, 400- and 500-level courses</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>
3. 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.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
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<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td>4</td>
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<tr>
<td>SCM 304</td>
<td>Principles of Supply Chain Management</td>
<td>4</td>
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<tr>
<td>SCM 305</td>
<td>Enterprise Resource Planning</td>
<td>4</td>
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<tr>
<td>SCM 350</td>
<td>Decision Making in Supply Chain and Transportation Management</td>
<td>4</td>
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<tr>
<td>SCM 470</td>
<td>Supply Chain Management</td>
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<td>SCM 480</td>
<td>Quality Management</td>
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<td>SCM 490</td>
<td>Logistics Strategy</td>
<td>4</td>
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<td>SCM 505</td>
<td>Advanced Enterprise Resource Planning</td>
<td>4</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>32</strong></td>
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</table>
The university offers concentrations in accounting within the Bachelor of Arts in Administration (p. 353), the Master of Science in Accountancy (p. 369), and the Master of Business Administration (p. 406). A Certificate in Accounting (p. 365) is also available. Accounting and Finance courses are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

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.

Current Faculty

Mohammad Bazaz, Professor
B.A. 1972, Advanced School of Accountancy, Iran
M.A. 1973, National Iranian School of Accountancy, Iran
Ph.D. 1984, University Of Oklahoma

Francisca Beer, Professor
B.A. 1982, M.A. 1983, University of Catholique de Mons
Ph.D. 1990, Catholic University of Louvain

Rafiqul Bhuyan, Professor
B.A. 1995, University of Dhaka, Bangladesh
M.S. 1992, University of Illinois, Urban Campus
Ph.D. 2002, Concordia University, Montreal, Canada

Janet Courts, Lecturer
B.S. 1985, M.B.A. 1990, California State University, San Bernardino

John R. Dorocak, Professor
A.B. 1973, Xavier University, Cincinnati, Ohio
J.D. 1977, Case Western Reserve University, Cleveland, Ohio
LLM (Tax) 1990, University of Florida

Ronald Escobar, Lecturer
B.S. 1977, Oral Roberts University
M.P.A. 2005, California State University, San Bernardino

James Estes, Professor
B.A. 1968, M.B.A. 1973, California State University, Fullerton
Ph.D. 1998, California Coast University

Liang Kevin Guo, Assistant Professor
Ph.D., 2013, University of Texas - San Antonio

Sung-Kyoo Huh, Professor
B.E. 1977, Korea University
M.B.A. 1982, State University of New York, Buffalo
Ph.D. 1988, Kent State University

John Jin, Professor
B.A. 1979, M.B.A. 1981, Yon-Sei University
M.S. 1984, University of Illinois at Urbana-Campaign
Ph.D. 1989, University of Arizona

Dong M. Kim, Professor
B.S. 1978, So Gang University
M.B.A. 1984, West Georgia College
Ph.D. 1990, Arizona State University

Wu-Lung Li, Assistant Professor
B.A. 1998, University of Taiwan
M.A. 2000, National Taiwan University
Ph.D. 2011, University Of Texas at Dallas

Xiang Liu, Associate Professor
B.A. 1998, Beijing Foreign Studies University
M.B.A. 2004, University of Washington
Ph.D. 2009, University of North Texas

Vishal Munsif, Assistant Professor
B.B.A. 2007, M.A.C.C. 2007, Northern Kentucky University
Ph.D. 2011, Florida International University

Greg Richey, Lecturer
B.A. 1991, University of California, Riverside
M.B.A. 2001, California State University, San Bernardino

Lawrence Rose, Professor, Dean
B.S. 1976, Bradley University
M.A. 1978, Northern Illinois University
Ph.D. 1985, Texas A and M

Ghulam Sarwar, Professor
B.S. 1980, University of Faisalabad
M.S. 1984, University of Philippines
Ph.D. 1989, University of Nebraska, Lincoln
Ph.D. 1997, Oklahoma State University

Richard Savich, Associate Professor
B.S. 1964, M.S. 1967, Northern Illinois University
Ph.D. 1973, University of Illinois

David Senteney, Associate Professor
B.S. 1980, Eastern Illinois University
M.A.S. 1983, Ph.D. 1987, University Of Illinois, Urbana-Champaign

Astrid Sheil, Associate Professor, Interim Chair Accounting and Finance
B.S. 1977, Georgetown University
M.S. 1998, University of Tennessee
Ph.D. 2003, University of Tennessee

Hua Sun, Associate Professor
B.A. 1999, Nankai University
M.S.C. 2003, National University of Singapore
Ph.D. Expected, University of British Columbia

Taewon Yang, Associate Professor
B.S. 1993, Hankuk Aviation University
M.B.A. 1996, Ohio State University
ACCT 315. Accounting Information Systems. 4 Units.
Prerequisites: ACCT 212, INFO 101 and INFO 309
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.

ACCT 347. Management Accounting and Decision. 4 Units.
Prerequisites: ACCT 212
Overview of techniques to facilitate business decision-making. Models include break-even analysis, differential costing, product cost pricing analyses, capital budgeting and investment analysis techniques. The role of budgeting in management planning and control and an examination of cost and revenue variances. Transfer pricing, management compensation and performance evaluation are reviewed in both domestic and international situations. Formerly ACCT 345.

ACCT 372. Intermediate Accounting. 4 Units.
Prerequisites: ACCT 212
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.

ACCT 373. Problem Areas in Intermediate Accounting. 4 Units.
Prerequisites: ACCT 372
Continuation of ACCT 372 with emphasis on the study of long-term assets, equities and earnings per share.

ACCT 426. Introduction to Taxation. 4 Units.
Prerequisites: ACCT 211 and junior standing
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.

ACCT 440. Financial Statement Auditing. 4 Units.
Prerequisites: ACCT 315, ACCT 373, and the upper-division writing requirement
Theory and function of the auditor, viewed from the perspective of public accounting. Topics will include standard audit reports, assessing audit risk, auditors legal liabilities, tests of controls, and audit evidence. Three hours lecture and two hours activity laboratory.

ACCT 441. EDP Auditing and Control. 4 Units.
Prerequisites: ACCT 440
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.
ACCT 442. Internal and Operational Auditing. 4 Units.
Prerequisites: ACCT 373
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.

ACCT 468. Accounting for Government and Not-for-Profit Organizations. 4 Units.
Prerequisites: ACCT 211 or ACCT 311
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. Formerly ACCT 568. (Offered as ACCT 468/PA 568. Students may not receive credit for both.)

ACCT 503. Financial Accounting. 4 Units.
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.

ACCT 536. Corporate and Partnership Taxation. 4 Units.
Prerequisites: ACCT 426
The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 436.

ACCT 539. Advanced Accounting. 4 Units.
Prerequisites: ACCT 373
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.

ACCT 541. EDP Auditing and Control. 4 Units.
Prerequisites: ACCT 440
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.

ACCT 544. Accounting Law, Ethics and Institutions. 4 Units.
Prerequisites: MGMT 330 or equivalent
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.

ACCT 547. Cost Accounting. 4 Units.
Prerequisites: ACCT 347 or equivalent
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. (4 units)

ACCT 556. Estates and Gifts and other Specialized. 4 Units.
Prerequisites: ACCT 426
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.

ACCT 574. Reporting Issues in Intermediate Accounting. 4 Units.
Prerequisites: ACCT 373 and the upper-division writing requirement
Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374.

ACCT 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

ACCT 590. Seminar in Accounting. 4 Units.
An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change.

ACCT 595B. Independent Study. 2 Units.
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
Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 courses may be applied toward graduation. Marketing (1-5 units).

ACCT 595D. Independent Study. 4 Units.
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
Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 courses may be applied toward graduation. Marketing (1-5 units).

ACCT 605. Health Care Accounting and Financial Analysis. 4 Units.
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)
ACCT 606. Accounting for Managerial Decision-Making. 4 Units.
Study and application of the concepts and techniques used by management for planning and controlling business activities.

ACCT 610. Financial Reporting and Disclosure. 4 Units.
Prerequisites: ACCT 606. MSA Prerequisite: consent of coordinator or department chair
An in-depth study of financial accounting, reporting, and disclosure. Professional accounting and reporting standards will be examined. MBA.

ACCT 615. Controllership. 4 Units.
Prerequisites: ACCT 606. MSA Prerequisite: consent of coordinator or department chair
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.

ACCT 620. Internal Auditing and Management Controls. 4 Units.
Prerequisites: ACCT 610. MSA Prerequisite: consent of coordinator or department chair
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.

ACCT 625. Seminar in Accounting Information Systems. 4 Units.
Prerequisites: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair
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.

ACCT 629. Seminar in Tax and Business Decisions. 4 Units.
Prerequisites: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair
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.

ACCT 630. Advanced Tax Topics: Corporate Taxation. 4 Units.
Prerequisites: Consent of MSA coordinator of department chair
The study of federal tax consequences of the formation operation, reorganization, and liquidation of corporations from the standpoint of the corporation and shareholders, with some reference to the taxation of S corporations. MSA.

ACCT 642. International Accounting. 4 Units.
Prerequisites: ACCT 610 or consent of instructor. MSA Prerequisite: consent of coordinator or department chair
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.

ACCT 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

ACCT 690. Advanced Topics in Accounting. 4 Units.
Intensive study of an advanced topic in accounting. May be repeated for credit as topics change.

ACCT 695A. Graduate Independent Study. 1 Unit.
Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director
Independent graduate research in accounting. No more than four units in this course may be applied toward the masters degree.

ACCT 695B. Graduate Independent Study. 2 Units.
Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director
Independent graduate research in accounting. No more than four units in this course may be applied toward the masters degree.

ACCT 695C. Graduate Independent Study. 3 Units.
Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director
Independent graduate research in accounting. No more than four units in this course may be applied toward the masters degree.

ACCT 695D. Graduate Independent Study. 4 Units.
Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director
Independent graduate research in accounting. No more than four units in this course may be applied toward the masters degree.

ACCT 697. MSA Project. 4 Units.
Students demonstrate their readiness to enter the accounting profession by completing a series of projects that require application of knowledge and skills learned in the MSA program. Formerly ACCT 997.
ACCT 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
ACCT 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 996. MS Accounting Classified. 0 Units.
Students in the MSA who are now in classified status.

ACCT 998. Comprehensive Project. 0 Units.
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 approval of the MSA Coordinator and/or Department Chair.

ACCT 999. MSA Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of MSA coordinator and/or department chair, and in good academic standing. 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.

Finance Courses
FIN 101. Financial Choices in Life. 2 Units.
( GE=E1 )
An introduction to how financial choices affect lifestyle decisions, economic stress, and wellbeing. Topics include how students deal with credit cards, student loans, leasing vs. buying cars, insurance, employee benefits, housing, investments, and retirement decisions.

FIN 313. Business Finance. 4 Units.
Prerequisites: ACCT 212 or ACCT 312, MATH 110 and ADMN 210
Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital.

FIN 314. Corporate Financial Management. 4 Units.
Prerequisites: FIN 313
An advanced study of internal business financial policies and decisions. Includes: capital budgeting, sources and forms of long-term financing, financial structure, cost of capital, equity management, and mergers and acquisitions.

FIN 355. Business and Asian Culture. 4 Units.
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 555. Students may not receive credit for both.) Students in FIN 555 must complete additional requirements.

FIN 360. Financial Planning Process and Insurance. 4 Units.
Prerequisites: FIN 313
Modern money management with discussion of budgeting, banking, real estate, insurance, consumer credit, retirement, and estate planning. The course also examines the identification of risk exposures and the various tools used to address these risks.

FIN 380. Principles of Real Estate. 4 Units.
Prerequisites: FIN 313 or consent of instructor
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.

FIN 420. Entrepreneurial Finance. 4 Units.
Prerequisites: FIN 313 and 314 or consent of instructor
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.

FIN 430. Financial Theory and Practice. 4 Units.
Prerequisites: FIN 313 and FIN 314
Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems.

FIN 432. Financial Institutions and Capital Formation. 4 Units.
Prerequisites: FIN 313 and FIN 314
Structure, operations, portfolio compositions and problems of financial intermediaries and markets.

FIN 433. International Business Finance. 4 Units.
Prerequisites: FIN 313
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.

FIN 435. Investment Analysis. 4 Units.
Prerequisites: FIN 313, FIN 314, FIN 430 and the upper-division writing requirement
Analysis and forecasting of security markets, industry studies, portfolio construction. Three hours lecture and two hours activity laboratory.
Prerequisites: FIN 430 and the upper-division writing requirement
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.

FIN 460. Retirement Planning. 4 Units.
Prerequisites: FIN 360
Analysis of key issues in retirement planning: Individual Retirement
Accounts, 401ks, defined benefit plans, profit sharing plans, and other
retirement planning instruments.

FIN 480. Real Estate Appraisal. 4 Units.
Prerequisites: FIN 313
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.

FIN 481. Real Estate Practice. 4 Units.
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.

FIN 482. Real Estate Development. 4 Units.
Aspects of the real estate development process from the location of the
property to the best use of the property.

FIN 485. Legal Aspects of Real Estate. 4 Units.
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.

FIN 503. Financial Management Concepts. 4 Units.
Prerequisites: ACCT 503
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.

FIN 523. Security Trading and Analysis. 4 Units.
Prerequisites: FIN 313 and 314; or FIN 602; or equivalent
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.

FIN 527. Financial Derivatives. 4 Units.
Prerequisites: FIN 313 and FIN 314; or FIN 602; or equivalent; or consent
of instructor
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.

FIN 534. Export-Import Financing. 4 Units.
Prerequisites: FIN 313; or FIN 602; or equivalent; or consent of instructor
International complexities of exporting and importing. Emphasis on the
benefits of international trade, the various ways to enter the global market,
project financing, trading blocs and investment strategies, components
of an export-import quotation, methods of payment, imports, exports,
contracts and public and private assistance programs. Formerly FIN 434.

FIN 546. Student Managed Investment Fund. 2 Units.
Prerequisites: consent of department
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.

FIN 555. Trade and Business in Asia. 4 Units.
Prerequisites: FIN 313; or FIN 602; or equivalent; or consent of instructor
An intensive study of some phase of finance to be developed by the
instructor. May be repeated for credit as topics change.

FIN 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the
departments internship coordinator
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.

FIN 585. Real Estate Finance. 4 Units.
Prerequisites: FIN 313; or FIN 602; or equivalent; or consent of instructor
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.

FIN 590. Seminar in Finance. 4 Units.
An intensive study of some phase of finance to be developed by the
instructor. May be repeated for credit as topics change.

FIN 595B. Independent Study. 2 Units.
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
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. Marketing (1-5 units).
FIN 595D. Independent Study. 4 Units.
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. 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. Marketing (1-5 units).

FIN 602. Financial Theory and Corporate Finance. 4 Units.
Modern finance theory and analysis of financial decision making. Topics include agency theory, time value of the money, risk and return, portfolio theory, Capital Asset Pricing Model, capital market efficiency, bond and stock valuation, financial planning, cost of capital, capital budgeting, and short-term financial management.

FIN 622. Entrepreneurial and Venture Finance. 4 Units.
Prerequisites: FIN 602
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.

FIN 651. Financial Institutions and Markets. 4 Units.
Prerequisites: FIN 313, FIN 314 or FIN 503
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.

FIN 653. Investment Analysis and Portfolio Management. 4 Units.
Prerequisites: FIN 602
Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis and portfolio management. Three hours lecture and two hours activity laboratory.

FIN 654. International Finance. 4 Units.
Prerequisites: FIN 602
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.

FIN 655. Management of Financial Institutions. 4 Units.
Prerequisites: FIN 651
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.

FIN 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

FIN 680. Corporate Financial Strategy. 4 Units.
Advanced topics in the field of corporate finance such as mergers and acquisitions, capital structure policy, dividend policy, and corporate restructuring. Emphasizes financial strategy and includes lecture and case study. Prerequisites: FIN 602 or consent of instructor.

FIN 690. Advanced Topics in Finance. 4 Units.
Intensive study of an advanced topic in finance. May be repeated for credit as topics change.

FIN 695. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy, written approval of student’s graduate project committee, department chair and graduate director
Independent graduate research in finance. Project will be under direction of a faculty member.

FIN 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
FIN 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Master of Science in Accountancy

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 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 postbaccalaureate unless the GMAT has been waived; an applicant may request waiver of the GMAT upon proof of completion of graduate work (e.g., J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university, upon proof of having passed the U.S. Uniform Certified Public Accountant Examination (CPA Examination), or upon meeting other GMAT waiver criteria as set by the department. Recent CSUSB accounting graduates who meet admission requirements for the 3.2 Program option may request a GMAT waiver. Contact the MSA Coordinator or department chair for details;
4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents:
   - ACCT 503 Financial Accounting 4
   - ACCT 211 Introductory Accounting I
   - ACCT 212 Introductory Accounting II
   - ECON 503 Economic Analysis 4
   - ECON 200 Principles of Microeconomics
   - ECON 202 Principles of Macroeconomics
   - FIN 503 Financial Management Concepts 4
   - FIN 313 Business Finance
   - FIN 314 Corporate Financial Management
   - ACCT 315 Accounting Information Systems 4
   - ACCT 347 Management Accounting and Decision 4
   - ACCT 372 Intermediate Accounting 4
   - ACCT 373 Problem Areas in Intermediate Accounting 4
   - ACCT 426 Introduction to Taxation 4
   - ACCT 440 Financial Statement Auditing 4
   - ACCT 574 Reporting Issues in Intermediate Accounting 4
   - MGMT 230 Business Law 4
   - MGMT 330 Legal Environment of Business 4

**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 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 34 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 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:
   - ACCT 697 MSA Project
   - or ACCT 998 Comprehensive Project
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 (48 units)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 610</td>
<td>Financial Reporting and Disclosure</td>
<td>4</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Internal Auditing and Management Controls</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 629</td>
<td>Seminar in Tax and Business Decisions</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 642</td>
<td>International Accounting</td>
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</tr>
</tbody>
</table>

**Culminating Experience:**

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<td>MSA Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum of 24 elective units chosen in consultation with the MSA coordinator or department chair.

**Total Units** 48
Professional Accounting Option

ACCT 536  Corporate and Partnership Taxation  4
ACCT 539  Advanced Accounting  4
ACCT 541  EDP Auditing and Control  4
ACCT 544  Accounting Law, Ethics and Institutions  4
ACCT 547  Cost Accounting  4
ACCT 556  Estates and Gifts and other Specialized  4
ACCT 590  Seminar in Accounting  4
ACCT 605  Health Care Accounting and Financial Analysis  4
ACCT 625  Seminar in Accounting Information Systems  4
ACCT 629  Seminar in Tax and Business Decisions  4
ACCT 675  Internship  4
ACCT 690  Advanced Topics in Accounting  4
ACCT 695A-D  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

Total Units  77-80

Graduate-level elective courses offered by other departments within the College of Business and Public Administration require approval of the MSA Coordinator or department chairperson for course substitution.

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 14 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 (48 units)

The Master of Science in Accountancy (MSA) 3:2 Option 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 MSA 3:2 Option is by invitation from the Department of Accounting and Finance.

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, ACCT 347, ACCT 372 and ACCT 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 48 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 34 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:
   ACCT 697  MSA Project  4
   ACCT 998  Comprehensive Project  0

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 (48 units)

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<tr>
<td>ACCT 629</td>
<td>Seminar in Tax and Business Decisions</td>
<td>4</td>
</tr>
</tbody>
</table>
Culminating Experience:

**ACCT 697**  MSA Project  4

Minimum of 24 elective units chosen in consultation with the MSA coordinator or department chair.  24

Total Units  48

*Note: Students who have taken ACCT 315, ACCT 442 and/or ACCT 536 may be waived for ACCT 620, ACCT 625 and/or ACCT 629 by the MSA Coordinator or department chair. These students must complete additional units of graduate work approved by the MSA Coordinator or department chair.

### Professional Accounting Option

**ACCT 536**  Corporate and Partnership Taxation  4

**ACCT 539**  Advanced Accounting  4

**ACCT 541**  EDP Auditing and Control  4

**ACCT 544**  Accounting Law, Ethics and Institutions  4

**ACCT 547**  Cost Accounting  4

**ACCT 556**  Estates and Gifts and other Specialized  4

**ACCT 590**  Seminar in Accounting  4

**ACCT 605**  Health Care Accounting and Financial Analysis  4

**ACCT 625**  Seminar in Accounting Information Systems  4

**ACCT 629**  Seminar in Tax and Business Decisions  4

**ACCT 675**  Internship  4

**ACCT 690**  Advanced Topics in Accounting  4

**ACCT 695A-D**  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

Total Units  77-80

Graduate-level elective courses offered by other departments within the College of Business and Public Administration require approval of the MSA Coordinator or department chairperson for course substitution.

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 14 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.
Department of Information and Decision Sciences

Jack Brown Hall, Room 460
(909) 537-5723 Department of Information and Decision Sciences website (http://ids.csusb.edu)

The university offers concentrations in information management within the Bachelor of Arts in Administration (p. 348), the Bachelor of Science in Administration (p. 348) and the Master of Business Administration (p. 349). Information Systems and Technology and Supply Chain Management courses are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

Current Faculty

Anthony Coulson, Professor
B.A. 1992, M.B.A. 1993, California State University, San Bernardino
Ph.D. 2002, Claremont Graduate School

Harold Dyck, Professor
B.A. 1975, University of Kansas
M.S. 1977, Ph.D. 1982, Purdue University

Kamvar Farahbod, Professor
B.A. 1976, University of Tehran
M.S. 1979, Ph.D. 1986, Oklahoma State University

Frank M. Lin, Professor, Associate Dean
B.S. 1981, Tatung Institute of Tech at Buffalo

Conrad Shayo, Professor
B. of Commerce 1981, University of Dar-Es-Salaam, Tanzania
M.B.A. 1985, University of Nairobi, Kenya
Ph.D. 1995, Claremont Graduate University

Barbara Sirotnik, Professor
A.B., B.S. 1973, M.S. 1979, Ph.D. 1980, University of California, Riverside

Walter T Stewart, Jr., Professor
B.A. 1976, M.A. 1979, Brigham Young University
Ph.D. 1984, Ohio University

Javad Varzandeh, Professor
B.S. 1974, National University, Iran
M.S. 1976, St. Mary’s University
Ph.D. 1981, Oklahoma State University

Jun (Jake) Zhu, Professor, Chair
B.A. 1988, Hunan Educational Institute, China
M.A. 1991, University of Redlands
Ph.D. 1997, University of California, Riverside

Emeriti

Anand Bhatia, Assistant Professor
Jack McDonnell, Professor
C.E. Tapie Rohm, Jr., Professor
Robert D. Wilson, Professor

Information Systems and Tech Courses

IST 101. Introduction to Information Technology. 4 Units.
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. May not be taken for credit by students who have received credit for both INFO 102 and 103. Three hours lecture and two hours activity laboratory.

IST 150. Web Publishing. 4 Units.
Prerequisites: IST 101 or consent of instructor
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.

IST 160. Computer Graphics for the Internet. 4 Units.
Prerequisites: IST 101 or consent of instructor
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.

IST 274. Data Base Management and Policies. 4 Units.
Prerequisites: IST 101 or consent of instructor
Fundamentals of data base design and use. Topics include data base application in organizations, end user needs analysis, logical data base design, data integrity and data base security. Students design and create working applications using a popular business data base program. Information classification, management and disposal practices are explored.

IST 275. Information Networking and Security. 4 Units.
Prerequisites: IST 101 or consent of instructor
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.

IST 276. Systems Analysis and Design. 4 Units.
Prerequisites: IST 101 or consent of instructor
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.
IST 280. Information Mapping and Data Visualization. 4 Units.
Prerequisites: IST 101 or consent of instructor
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 practice applications for converting data into information.

IST 282. Business Systems I. 4 Units.
Prerequisites: IST 101 or consent of instructor
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.

IST 283. Business Systems II. 4 Units.
Prerequisites: IST 282 or consent of instructor
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.

IST 305. Enterprise Systems. 4 Units.
Prerequisites: IST 101
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 system software. (Also offered as SCM 305. Students may not receive credit for both.)

IST 309. Information Systems and Technology. 4 Units.
Prerequisites: IST 101
Application of computer systems in organizations. Topics include information systems planning, information system requirements, information technology, information processing, information assurance and security, risk assessment, allocating resources and legal concepts.

IST 372. Information Technology. 4 Units.
Prerequisites: IST 309 or consent of instructor
Basic computer hardware, software, maintenance and training technologies including hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Security practices such as network access, data disposal, introductory forensics and facilities planning are also explored. Hands-on experience with different computer hardware, operating systems and software utilities. Formerly INFO 472.

IST 378. Problem Solving and Risk Management. 4 Units.
Prerequisites: IST 309 or consent of instructor
Systematic approaches to problem solving and decision making. Students will learn behavioral and organizational decision making processes relating to their roles as both manager and information systems designer. Topics include recognizing and defining the problem, troubleshooting, individual and group decision making, risk management, incident handling, threat assessment, allocating resources, and implementation strategies. Formerly INFO 478.

IST 410. Information Systems Security Professionals. 4 Units.
Prerequisites: IST 309 or consent of instructor
Advanced study in information assurance and systems security for information systems professionals. Creates a sensitivity to the threats to 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).

IST 415. Security Systems Management. 4 Units.
Prerequisites: IST 410 or consent of instructor
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).

IST 474. Advanced Data Base Management and Information Assurance. 4 Units.
Prerequisites: IST 274 and IST 309, or consent of instructor
Advanced computer database 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 database program package.

IST 475. Advanced Information Networking and Security. 4 Units.
Prerequisites: IST 275 and IST 309, or consent of instructor
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.

IST 476. Advanced Systems Analysis and Design. 4 Units.
Prerequisites: IST 276 and IST 309, or consent of instructor
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.

IST 480. Advanced Information Mapping and Visualization. 4 Units.
Prerequisites: IST 280 and 309, or consent of instructor
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.
**IST 485. E-Business. 4 Units.**
Prerequisites: IST 150 and 309, or consent of instructor
Advanced technical and business skills for designing, developing and managing e-business applications. Topics include enterprise systems, business to business exchanges, and implementation strategies.

**IST 490. Information Systems Planning and Policy. 4 Units.**
Prerequisites: completion of all other courses in chosen concentration program and the upper-division writing requirement
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.

**IST 505. Advanced Enterprise Resource Planning. 4 Units.**
Prerequisites: SCM 304 or 607
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 505. Students may not receive credit for both.) Formerly IST 405.

**IST 511. Cyber Defense. 4 Units.**
Prerequisites: IST 410 or IST 610 or consent of instructor
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 590.

**IST 525. Computer Forensics. 4 Units.**
Prerequisites: IST 410 or IST 610, the upper-division writing requirement, or consent of instructor
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 590.

**IST 575. Internship. 4 Units.**
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

**IST 590. Seminar in Information Systems and Technology. 4 Units.**
Prerequisites: the upper-division writing requirement
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.
IST 646. Information Systems Planning, Strategy and Policy. 4 Units.
Prerequisites: IST 609
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.

IST 647. Information Based Management. 4 Units.
Prerequisites: IST 609
Advanced theory and application of data base management in organizations. Topics include managers 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.

IST 648. Information Networking Systems and Security. 4 Units.
Prerequisites: IST 609 or consent of instructor
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.

IST 650. Information Decision Systems. 4 Units.
Prerequisites: IST 609 and SCM 607
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.)

IST 670. Business Geographical Information Systems Strategies. 4 Units.
Prerequisites: IST 609 or consent of instructor
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.

IST 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

IST 680. International Electronic Commerce. 4 Units.
Prerequisites: IST 609
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.

IST 695. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy, written approval of students graduate project committee and graduate director
Independent graduate research in information systems and technology. Project will be under direction of a faculty member.

IST 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
IST 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Supply Chain Management Courses
SCM 304. Principles of Supply Chain Management. 4 Units.
Prerequisites: ADMN 210
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.

SCM 305. Enterprise Resource Planning. 4 Units.
Prerequisites: SCM 304 or consent of instructor
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.).

SCM 350. Decision Making in Supply Chain and Transportation Management. 4 Units.
Prerequisites: SCM 304
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.
SCM 440. Transportation Systems Management. 4 Units.
Prerequisites: SCM 304
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.

SCM 445. International Logistics. 4 Units.
Prerequisites: SCM 304
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.

SCM 466. Operations Planning and Control. 4 Units.
Prerequisites: SCM 304
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.

SCM 470. Supply Chain Management. 4 Units.
Prerequisites: SCM 304
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.

SCM 480. Quality Management. 4 Units.
Prerequisites: SCM 304
Description and analysis of quality assurance programs and techniques and their many applications in supply chain and transportation 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.

SCM 490. Logistics Strategy. 4 Units.
Prerequisites: the upper division writing requirement and completion of all other courses in concentration program or consent of instructor
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.

SCM 505. Advanced Enterprise Resource Planning. 4 Units.
Prerequisites: SCM 304 or SCM 607
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 505. Students may not receive credit for both.) Formerly SCM 405.

SCM 515. Project Management. 4 Units.
Developing and implementing a plan that completes a project on time, under budget, and meets project objectives. Topics include: project feasibility, risk analysis, resource allocation, control with earned value, managing project stakeholders, and project management tools. Formerly SCM 615.

SCM 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

SCM 590. Seminar in Supply Chain Management. 4 Units.
Prerequisites: the upper-division writing requirement
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.

SCM 595B. Independent Study. 2 Units.
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
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. Marketing (1-5 units).

SCM 595D. Independent Study. 4 Units.
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
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. Marketing (1-5 units).

SCM 607. Managing the Supply Chain. 4 Units.
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.

SCM 611. Global Supply Chain Management and Logistics. 4 Units.
Prerequisites: SCM 607
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.

SCM 614. Advanced Quality Management. 4 Units.
Prerequisites: SCM 607
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.
SCM 650. Information Decision Systems. 4 Units.
Prerequisites: INFO 609 and SCM 607
Concepts, principles, practices and tools needed to support the management decision making process. Both static and dynamic models of information management related to decision making will be explored. Specific topics include risk management, incident handling, threat assessment, allocating resources and system certification. (Also offered as INFO 650. Students may not receive credit for both.) Formerly OM 650.

SCM 660. Transportation and Supply Chain Management. 4 Units.
Prerequisites: SCM 607
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.

SCM 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

SCM 695. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy, written approval of student’s graduate project committee and graduate director
Independent graduate research in supply chain management, transportation and logistics. Project will be under direction of a faculty member.

SCM 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
SCM 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
Department of Management

Jack Brown Hall, Room 461
(909) 537-5731 Department of Management (http://management.csusb.edu)

The university offers concentrations in management within the Bachelor of Arts in Administration (p. 348) and the Master of Business Administration (p. 349). Concentrations are offered under the B.A. in Administration (p. 359), Entrepreneurial Management (p. 353), Human Resource Management (p. 355), and International Business (p. 357). Management courses 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 (p. 14). This program provides opportunities 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 (p. 14) students will have taken a major step in preparing themselves for rewarding careers in the business world of the future.

Current Faculty

Helena Addae, Associate Professor
B.A. 1980, Ph.D. 2003, Concordia University
M.B.A. 1983, McGill University, Montreal

Melissa Bakeman, Lecturer
B.A. 1996, M.A. 2001, California State University, San Bernardino

Breena Coates, Professor
M.A. 1993 University of Pittsburgh
Ph.D. 1999, University of Pittsburgh

Foad Derakhshan, Professor
B.S. 1973, Tehran College of Business Sciences
M.B.A. 1976, Ph.D. 1979, Louisiana State University

Donald A. Drost, Professor
B.A. 1975, M.B.A. 1977, California State University, Fullerton
Ph.D. 1984, Virginia Polytechnic Institute and State University

Vipin Gupta, Professor, Associate Dean
B.A. 1988, Shri Ram College of Commerce, Delhi University
M.B.A. 1990, Indian Institute of Management, Ahmedabad
Ph.D. 1998, Wharton School, University of Pennsylvania

Paul Kirwan, Assistant Professor
Ph.D. Expected, University of Twente, the Netherlands

Gary D. Patterson, Professor
B.A. 1973, B.S. 1973, California State University, Fresno
M.A. 1976, Indiana University, Bloomington
J.D. 1983, Western State University, Fullerton

Kathie Pelletier, Associate Professor
B.A. 1982, San Diego State University

M.S. 1998, California State University, San Bernardino
Ph.D. 2009, Claremont Graduate University, CA

Lynne Susie Pryor, Assistant Professor
Ph.D., 2006, University of Nebraska-Lincoln

Ranfeng Qiu, Assistant Professor
Economics
M.A. 2005, Indiana University at Bloomington
Ph.D. 2010, Rutgers University, New Jersey

Ernesto M. Reza, Professor
B.A. 1977, Pitzer College
M.A. 1982, Ph.D. 1992, University of Michigan

Cynthia Schreihans, Lecturer
B.A. 1998, M.B.A. 2000, California State University, San Bernardino

Craig Seal, Associate Professor, Assistant Dean
B.A. 1991, Santa Clara University
M.A. 1995, Boston College
Ph.D. 2007, George Washington University

Michael Stull, Professor, Chair
B.A. 1988, M.B.A. 1989, California State University, San Bernardino
EDM 2005, Case Western Reserve University

Emeriti

Joe Bas, Professor
G. R. Bassiry, Professor
Sheldon E. Bockman, Professor
John S. Chaney, Professor
Sue Greenfeld, Professor
Jeanne King, Professor
Joan Kritzberg, Professor
Steven M. Levy, Professor
Janice Loutzenhisser, Associate Professor
Patrick McInturff, Professor
Clark Molstad, Professor
Lloyd E. Peake, Professor
James Rogers, Professor
Elisabeth Ryland, Professor
Christine Schalow, Professor
Courses

MGMT 100. Introduction to Business and Public Administration. 4 Units.
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.

MGMT 230. Business Law. 4 Units.
An introduction to statutory and common law developments impacting commercial transactions. Emphasizes principles of contract law and sale of goods under the Uniform Commercial Code. Additional topics include business organizations, commercial paper and secured transactions.

MGMT 302. Management and Organizational Behavior. 4 Units.
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. Offered as MGMT 302 and PSYC 302. Students may not receive credit for both.

MGMT 306. Expository Writing for Administration. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit (GE=F1)
Writing related to business and public administration including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. May not be counted for fulfilling concentration requirements for any degree program offered by the College of Business and Public Administration. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly MGMT 495. Graded A, B, C/no credit.

MGMT 330. Legal Environment of Business. 4 Units.
Prerequisites: MGMT 230
Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system.

MGMT 335. Business, Ethics, and Society. 4 Units.
Prerequisites: the upper-division writing requirement
Social and legal factors influencing business; social expectations for ethical conduct and corporate social responsibility (CSR); role of business in alleviating societies problems; problems and issues of current concern regarding women and minorities in management; business and society in a global context.

MGMT 350. Administrative Communications. 4 Units.
Prerequisites: the upper-division writing requirement
Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments.

MGMT 402. Studies in Organizational Behavior. 4 Units.
Prerequisites: MGMT 302 or PSYC 302
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.

MGMT 405. Managing Across Borders. 4 Units.
Prerequisites: MGMT 302 or PSYC 302
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.

MGMT 406. International Business Law. 4 Units.
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.

MGMT 407. Comparative Management Systems of the Americas. 4 Units.
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.

MGMT 408. Managing in Europe. 4 Units.
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.

MGMT 442. Small Business Management. 4 Units.
Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics.

MGMT 451. Organization and Management Theory. 4 Units.
Prerequisites: MGMT 302 or PSYC 302
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.
MGMT 452. Leading Effectively and Ethically. 4 Units.
Prerequisites: MGMT 302 or PSYC 302
Relevant theories and concepts for leading individuals and groups effectively and for developing ethical awareness to respond appropriately to ethical dilemmas.

MGMT 455. Human Resources Management. 4 Units.
Prerequisites: MGMT 302 or PSYC 302, and the upper-division writing requirement
Policies related to human resources; human resources planning, employee selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining.

MGMT 456. Developing an Effective Workforce. 4 Units.
Prerequisites: MGMT 455 or PSYC 355
Theory and practice of employee selection, training, and performance appraisal.

MGMT 457. Industrial and Labor Relations. 4 Units.
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.

MGMT 458. Fair Employment Practices. 4 Units.
Prerequisites: MGMT 455
An evaluation of fair employment practices in employment. Course emphasizes antidiscriminatory legislation and its application to employer-employee relationships.

MGMT 459. Work Group Management. 4 Units.
Prerequisites: MGMT 302 or PSYC 302
Examination of the dynamics of task-oriented groups in American and international environments, utilizing both conceptual and experiential learning.

MGMT 470. Strategic Human Resource Management. 4 Units.
Prerequisites: MGMT 455; MGMT 456 or PSYC 355; and MGMT 458
Capstone course integrating human resource management materials acquired through the required concentration courses and addressing the strategic role of HR professionals in organizations.

MGMT 490. Strategic Management. 4 Units.
Prerequisites: completion of the upper-division administration core courses (one course may be taken concurrently), the upper-division writing requirement, and senior standing
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.

MGMT 515. Business Consulting. 4 Units.
Prerequisites: senior status, consent of instructor and college
Supervised consulting assignments designed to provide meaningful business assistance to businesses.

MGMT 520. Legal Regulation of Intellectual Property. 4 Units.
Prerequisites: MGMT 230 and 330
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.

MGMT 526. Global Entrepreneurship. 5 Units.
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.

MGMT 541. Commercializing Entrepreneurial Innovation. 4 Units.
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.

MGMT 543. New Venture Opportunity Analysis. 4 Units.
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.

MGMT 544. New Venture Development. 4 Units.
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.

MGMT 545. New Venture Resource Requirements. 4 Units.
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.

MGMT 547. Managing a Growing Business. 4 Units.
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.
MGMT 549. Launching the Entrepreneurial Venture. 4 Units.
Prerequisites: MGMT 543 and MGMT 544
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.

MGMT 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

MGMT 590B. Seminar in Management. 2 Units.
Intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change.

MGMT 590C. Seminar in Management. 3 Units.
Intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change.

MGMT 590D. Seminar in Management. 4 Units.
Intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change.

MGMT 595B. Independent Study. 2 Units.
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 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. Marketing (1-5 units).

MGMT 595D. Independent Study. 4 Units.
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 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. Marketing (1-5 units).

MGMT 601. Organization Theory and Behavior. 4 Units.
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.

MGMT 620. Business Law for Entrepreneurs. 4 Units.
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.

MGMT 621. Entrepreneurship and New Ventures. 4 Units.
Prerequisites: completion of, or concurrent enrollment in, MGMT 601 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.

MGMT 623. Piloting the New Venture. 4 Units.
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, preforming a comprehensive feasibility analysis, and concept testing.

MGMT 625. New Venture Planning and Strategy. 4 Units.
Prerequisites: MGMT 621 and MGMT 623 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.

MGMT 626. International New Venture Development. 4 Units.
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.

MGMT 641. Managing Human Resources. 4 Units.
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.

MGMT 642. Communication and Interpersonal Processes. 4 Units.
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.

MGMT 644. Industrial Relations. 4 Units.
Analysis of industrial relations systems in major industries, collective bargaining institutions, processes, legal environment and problems.

MGMT 645. Negotiation and Bargaining. 4 Units.
Theory and practice of negotiation and bargaining including the analytical skills necessary to prepare, plan, and present advocacy positions, anticipate opposing positions, envision and achieve optimal resolutions of disputes. Course participants will simulate, negotiate, debrief, discuss, and evaluate negotiation problems, strategies and tactics.

MGMT 650. Managing and Leading Global Business. 4 Units.
Prerequisites: MGMT 601 or consent of instructor Management and leadership of organizations in global environments. Emphasis on economic, political and sociocultural influences.
MGMT 655. Leadership for Modern Organizations. 4 Units.
An overview of leadership emphasizing an understanding and analysis of the research on classical and contemporary theories in the field of organizational leadership.

MGMT 660. Managing Teams in the Workplace. 4 Units.
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.

MGMT 675. Internship. 4 Units.
Prerequisites: consent of instructor and department's internship coordinator
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.

MGMT 685. Corporate Strategy in a Global Economy. 4 Units.
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.

MGMT 690. Advanced Topics in Management. 4 Units.
Intensive study of an advanced topic in management. May be repeated for credit as topics change.

MGMT 695. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy, written approval of the student's graduate project committee and approval of the graduate (MBA) director
Independent graduate research for the management concentration or the concentration in entrepreneurship. Project will be under the direction of a faculty member.

MGMT 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
MGMT 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 998. Baccalaureate Reflective Essay. 0 Units.
Prerequisites: completion of or concurrent enrollment in all courses in student’s area of concentration
Submission of a reflective essay based on departmental guidelines.
Department of Marketing

Jack Brown Hall, Room 458
(909) 537-5749 Department of Marketing (http://marketing.csusb.edu)

The university offers a concentration in marketing within the Bachelor of Arts in Administration (p. 348) and the Master of Business Administration (p. 349). Marketing courses 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 (p. 14).

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

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.

Current Faculty

Haakon Brown, Assistant Professor
B.S. 1995, Columbia University
M.B.A. 2001, Massachusetts Institute of Technology
Ph.D. 2009, Northwestern University

Eric J. Newman, Professor, Chair
B.S. 1991, MBA 1992, University of Montana
Ph.D. 2001, Washington State University

Jason Ryan, Professor
B.A. 1995, Swarthmore College
M.B.A. 2000, Washington University
A.M. 2002, Washington University
Ph.D. 2007, University College Dublin

Victoria A. Seitz, Professor, Chair
B.S. 1978, Kansas State University
M.S. 1984, Ph.D. 1987, Oklahoma State University

Emeriti

Mike Boorom, Professor
Frederick Hebein, Student Services Professional
Jotindar S. Johar, Professor
Norton E. Marks, Professor

Nabil Y. Razzouk, Professor
Arthur Saltzman, Professor

Courses

MKTG 305. Marketing Principles. 4 Units.
Prerequisites: Junior standing
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.

MKTG 410. Consumer Behavior. 4 Units.
Prerequisites: MKTG 305
Consumer decision processes in the consumptive role including internal and external influences on consumer behavior and marketing strategies.

MKTG 415. Product Management. 4 Units.
Prerequisites: MKTG 305
Techniques and processes of product development and product management. Topics include idea generation, screening, design, testing and commercialization. Introduces basic product management techniques such as brand switching, product adoption forecasting, and customer preference specification.

MKTG 416. Marketing Research. 4 Units.
Prerequisites: MKTG 305
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.

MKTG 420. Advertising. 4 Units.
Prerequisites: MKTG 305 and the upper-division writing requirement
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.

MKTG 430. Professional Selling and Sales Management. 4 Units.
Prerequisites: MKTG 305 and the upper division writing requirement
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.

MKTG 436. Marketing Decision-Making. 4 Units.
Prerequisites: MKTG 305
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.
MKTG 446. Advertising Campaign. 4 Units.
Prerequisites: MKTG 420
Development of a full marketing and advertising campaign for a clients regional or national product or service offered as needed basis for student competitions or grant opportunities.

MKTG 460. Retailing. 4 Units.
Prerequisites: MKTG 305
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.

MKTG 470. International Marketing Management. 4 Units.
Prerequisites: MKTG 305
Marketing strategies for developing global markets including the cultural, political, and economic infrastructure of foreign markets and their impact on traditional marketing decisions.

MKTG 496. Marketing Planning and Strategy. 4 Units.
Prerequisites: MKTG 410, 416, 436, and the upper-division writing requirement
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.

MKTG 520. Integrated Marketing Communication. 4 Units.
Prerequisites: MKTG 305 or MKTG 605
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.)

MKTG 525. Sports and Entertainment Marketing. 4 Units.
Prerequisites: MKTG 305 or MKTG 605
Examination of the theoretical and practical aspects of marketing management in the sports and entertainment industry. Formerly a topic under MKTG 590.

MKTG 550. Advanced Sports Marketing Planning and Strategy. 4 Units.
Prerequisites: MKTG 525
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.

MKTG 555. Advanced Entertainment Marketing Planning and Strategy. 4 Units.
Prerequisites: MKTG 525
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.

MKTG 560. Services Marketing. 4 Units.
Prerequisites: MKTG 305 or MKTG 605
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.

MKTG 575B. Internship in Marketing. 2 Units.
Prerequisites: consent of instructor and the department’s internship coordinator
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.

MKTG 575D. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

MKTG 590. Seminar in Marketing. 4 Units.
An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change.

MKTG 595A. Independent Study. 1 Unit.
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
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. Marketing (1-5 units).

MKTG 595B. Independent Study. 2 Units.
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
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. Marketing (1-5 units).
MKTG 595C. Independent Study. 3 Units.
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
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. Marketing (1-5 units).

MKTG 595D. Independent Study. 4 Units.
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
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. Marketing (1-5 units).

MKTG 595E. Independent Study. 5 Units.
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
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. Marketing (1-5 units).

MKTG 605. Marketing Management. 4 Units.
Problem-solving and decision-making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution.

MKTG 610. Consumer and Organizational Buying Behavior. 4 Units.
Prerequisites: MKTG 605
Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions.

MKTG 620. Advertising Management. 4 Units.
Prerequisites: MKTG 605
Emphasis on the managerial approach to advertising in its relationship to marketing management, including consumer behavior, audience analysis, research, advertising media, appeals, campaign development, as well as legal, ethical, and international aspects of advertising. Also examines communication processes and other promotional activities.

MKTG 624. Marketing for Entrepreneurs. 4 Units.
Prerequisites: MKTG 605
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.

MKTG 640. Advanced Marketing Research. 4 Units.
Prerequisites: MKTG 605
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.

MKTG 670. Global Marketing Strategies. 4 Units.
Prerequisites: MKTG 605
Advanced marketing strategies for developing global markets. Includes the emerging changes in international markets and their impact on general marketing strategies. Formerly a topic under MKTG 690.

MKTG 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

MKTG 686D. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy
Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies.

MKTG 686E. Graduate Project. 5 Units.
Prerequisites: advancement to candidacy
Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies.

MKTG 686F. Graduate Project. 6 Units.
Prerequisites: advancement to candidacy
Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies.

MKTG 686G. Graduate Project. 7 Units.
Prerequisites: advancement to candidacy
Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies.
MKTG 686H. Graduate Project. 8 Units.
Prerequisites: advancement to candidacy
Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies.

MKTG 690. Advanced Topics in Marketing. 4 Units.
Intensive study of an advanced topic in marketing. May be repeated for credit as topics change.

MKTG 696. Marketing Strategy. 4 Units.
Prerequisites: MKTG 605 and at least four additional units of 500- or 600-level coursework in marketing
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.

MKTG 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
MKTG 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
Department of Public Administration

The university offers a Masters in Public Administration. In addition, a concentration in public administration (p. 360) is available within the Bachelor of Arts in Administration. Public administration courses are offered in support of these programs. Further information is available from the Department of Public Administration.

Course Offerings

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.

Current Faculty

Jonathan Anderson, Professor, Chair
B.A. 1974, Colorado State University
M.P.A. 1978, American University, Washington
Ph.D. 1997, Indiana University, Bloomington

David L. Baker, Professor
Ph.D. 2004, Arizona State University

Kimberly Collins, Associate Professor
B.A. 1991, University of California, San Diego
M.A. 1994, San Diego State University
Ph.D. 2006, El Colegio de la Frontera Norte

Marc Fudge, Assistant Professor
B.A. 1992, Howard University
M.P.A. 1999, Fairleigh Dickinson University
Ph.D. 2011, Rutgers University

Ann Marie Johnson, Assistant Professor
Ph.D., 2011, University of Delaware

Ya (Anna) Ni, Associate Professor
B.A. 1993, University of Beijing, China
M.A. 2001, Iowa State University
Ph.D. 2007, Syracuse University

Alexandru Roman, Assistant Professor
Ph.D., 2013, Florida Atlantic University

Montgomery VanWart, Professor
B.A. 1973, Franklin College, PA
M.A. 1981, Lewis and Clark College
Ph.D. 1990, Arizona State University

Emeriti

Otto Chang, Professor

C. Charles Christie, Professor

Michael Clarke, Professor
Guenther G. Kress, Professor
Audrey Mathews, Professor
Brian Watts, Professor
Clifford Young, Professor

Graduate Degrees

- Master of Public Administration (p. 403) with a concentration in:
  - Cyber Security

Courses

PA 305. Organizations in Multicultural and Diverse Societies. 4 Units.
Prerequisites: junior or senior standing (GE=G2)
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.

PA 307. Public Relations in the Public Sector. 4 Units.
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.

PA 315. Government-Business Relations. 4 Units.
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 governments involvement with business.

PA 380. Introduction to Public Administration. 4 Units.
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. (Offered as PA 380 and PSCI 380. Students may not receive credit for both.)

PA 462. Public Personnel Administration. 4 Units.
Prerequisites: PA 380 and the upper division writing requirement
Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. Formerly PA 562.
PA 463. Governmental Budgeting. 4 Units.
Prerequisites: the upper division writing requirement
Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration.

PA 472. Administrative Law. 4 Units.
Prerequisites: the upper division writing requirement
Processes of administrative rule making, regulation, adjudication and appeal procedures; duties and liabilities of public officials, trends in regulation, overview of regulatory agencies.

PA 490. Senior Assessment Seminar in Public Administration. 4 Units.
Prerequisites: senior standing, the upper division writing requirement, PA 307, PA 315, PA 380, PA 462, PA 463 and PA 472, or consent of instructor
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.

PA 501. Administrative Leadership. 4 Units.
Prerequisites: the upper division writing requirement
Theory and practice of leading public sector organizations. Topics include leader traits, skills, styles, behaviors, development and evaluation. Formerly a topic under PA 590.

PA 514. Management of Private Nonprofit Organizations. 4 Units.
Prerequisites: the upper division writing requirement
Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues.

PA 516. Public and Non-Profit Project Management. 4 Units.
Prerequisites: the upper division writing requirement
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.

PA 521. Principles of Planning. 4 Units.
Prerequisites: the upper division writing requirement
Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships.

PA 540. Introduction to Tribal Management and Governance. 4 Units.
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. The course will also explore relevant organizations and management theories, concepts and tools as applied to the management of tribal governments. Formerly a topic under PA 590.

PA 557. Public Sector Labor Relations. 4 Units.
Prerequisites: the upper division writing requirement
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.

PA 564. Local Public Administration. 4 Units.
Prerequisites: the upper division writing requirement
Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions.

PA 568. Accounting for Government and Not-for-Profit Organizations. 4 Units.
Prerequisites: ACCT 211 or ACCT 311
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. Formerly ACCT 568. (Offered as ACCT 468/PA 568. Students may not receive credit for both.)

PA 573. Public Transportation Planning, Policy and Regulation. 4 Units.
Prerequisites: the upper division writing requirement
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. Formerly PA 473.

PA 575. Internship. 4 Units.
Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
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.

PA 590. Seminar in Public Administration. 4 Units.
An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change.

PA 595B. Independent Study. 2 Units.
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. 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. Marketing (1-5 units).

PA 595D. Independent Study. 4 Units.
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. 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. Marketing (1-5 units).
PA 603. Research Methods in Administration. 4 Units.
Prerequisites: ADMN 210 - Applied Business Statistics or equivalent
Introduces concepts of scientific research, particularly as applicable to
public managers, as well as evaluation of research. Addresses issues
of research design, sampling, data collection and analysis of basic
quantitative and qualitative methods.

PA 611. Public Administration Theory and
Practice. 4 Units.
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, ethics in the public sphere, and role of
public administration in society.

PA 612. Productivity Measurement in the
Public Sector. 4 Units.
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.

PA 615. Public Financial Management. 4
Units.
Management of financial resources in public organizations with emphasis
on local government. Topics include evaluation and monitoring of financial
condition and trends, capital financing strategies, debt administration,
cash management, retirement systems, risk management, and managing
purchasing functions.

PA 616. Comparative Public Administration. 4
Units.
Cross-national comparison of administrative systems, structures,
processes and practices of developed and third world countries.

PA 617. Management of Local Economic
Development. 4 Units.
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.

PA 618. Local Government Development
Finance. 4 Units.
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.

PA 619. Diversity and Public Organizations. 4
Units.
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 impact on leadership, management, people,
organizations, economic development and public policy.

PA 620. Regulatory Structure, Policies, and
Process in Water Law. 4 Units.
Legal authority of water agencies, the procedures employed to exercise
and limit that authority, the structure and process of administrative law,
and the sharing of power in a federal system. Topics include powers and
liabilities of water agencies, administrative procedures act, due process
of law, licensing, environmental laws, rulemaking, negotiated rulemaking,
interstate compacts, emergency powers, property condemnation,
allocation of water resources, uses of water, and legal aspects of
financing water projects.

PA 628. Intergovernmental Administration. 4
Units.
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.

PA 630. Program Evaluation. 4 Units.
Prerequisites: MATH 305 or SCM 210
Purpose 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.

PA 650. Public Management Information
Systems. 4 Units.
Prerequisites: the upper division writing requirement
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.

PA 661. Principles of Public Procurement. 4
Units.
Theory and practice of public procurement including the legal framework,
concepts, practices, and processes employed by leading public agencies.

PA 662. Human Resource Management in the
Public Sector. 4 Units.
Analysis of the human resource management function as it applies to
public sector organizations. Topics include development of modern public
service, functions of personnel management, professionalism and ethics,
and contemporary challenges facing human resources management.
PA 663. Public Budgeting and Finance. 4 Units.
Budget concepts and their application in varied settings including federal, state and local governments. Includes economic, management, and political approaches to appropriation and revenue decision making processes, as well as ethics and major issues in contemporary budgeting.

PA 664. Management of Public Organizations. 4 Units.
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.

PA 670. Emergency Management. 4 Units.
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.

PA 671. Defense Acquisition Program Management. 4 Units.
Prerequisites: PA 661
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.

PA 672. Administrative Regulation. 4 Units.
Discretionary authority of regulatory agencies, the manner in which power is exercised by such agencies, and the administrative structure of the regulatory process.

PA 675. Internship. 4 Units.
Prerequisites: consent of instructor and department’s internship coordinator
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.

PA 680. Public Policy Analysis. 4 Units.
Prerequisites: PA 611, PA 662, and PA 663
Theoretical and practical issues to the development, application, and management of policy issues in public administrative systems. The emphasis is upon the development of critical thinking and evaluative skills for applied decision making in the workplace. Selected contemporary policy challenges and solutions, such as but not limited to globalization, ethics, and emergency management are explored.

PA 690. Advanced Topics in Public Administration. 4 Units.
Intensive study of an advanced topic in public administration. May be repeated for credit as topics change.

PA 695. Graduate Research Project. 4 Units.
Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and college
Required field study in public administration, including both literary and empirical research.

PA 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
PA 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Master of Public Administration
Requirements (48-56 units)
The Master of Public Administration (M.P.A.) is a broad program designed to prepare students for a career in administration in the public sector. The major objective is to provide the student with a generalist perspective of public administration, including tools of decision-making, an understanding of the total public administrative system, and a capacity for working within the public environment.

This degree is intended for graduate students and career employees seeking to develop and strengthen academic and professional skills for admission and advancement in the professional practice of public administration.

The program is open to all students, regardless of undergraduate major.

Admission to the M.P.A. Program
In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor’s degree from an accredited college or university;
2. A grade point average of 3.0 or above for the last 90 quarter units (or 60 semester units) of course work including post-baccalaureate courses. Students with a gpa of 2.75-2.99 may be conditionally admitted with submission of scores from the Graduate Record Examination (GRE).
3. Competence in the following prerequisite courses or their equivalents:
   MGMT 306 Expository Writing for Administration (with a grade of “B” or better) 4
   MATH 165 Introductory Statistics and Hypothesis Testing 4
   or ADMN 210 Applied Business Statistics
   PA 575 Internship (May be waived dependent upon related work experience.) 4

California State University, San Bernardino 403
Competence in the above prerequisite courses may be demonstrated by:

a. 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.)

b. Credit by examination.

c. Formal completion of the course or its equivalent.

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 an integrative comprehensive examination which may be taken any fall, winter or spring term after advancement to candidacy. Students with a grade point average below 3.0 ("B") will not be permitted to take the examination. A "no credit" (NC) designation will be entered on the student’s transcript if he/she fails the examination. Students who do not receive a passing grade may repeat the examination, one additional time only, with the written approval of the M.P.A. Graduate Coordinator. 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.

OR

Successful completion of a Graduate Research Project. The Graduate Research Project is an advanced field study in public administration including both literary and empirical research. Upon approval of the M.P.A. Graduate Coordinator students will enroll in PA 695 during the last quarter of work in the MPA program and complete the project to the satisfaction of the student’s project advisor. Students with a grade point average below 3.5 will not be permitted to enroll in the Graduate Research Project option.

6. In addition to satisfactory completion of the graduate entrance writing requirement, classified MPA students must satisfy the graduation writing requirement by completion of all M.P.A. core courses with a grade point average of "B" or better and successful completion of either the comprehensive examination or the graduate research project.

**Degree Requirements (48 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 603</td>
<td>Research Methods in Administration</td>
<td>4</td>
</tr>
<tr>
<td>PA 611</td>
<td>Public Administration Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>PA 615</td>
<td>Public Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>PA 650</td>
<td>Public Management Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>PA 662</td>
<td>Human Resource Management in the Public Sector</td>
<td>4</td>
</tr>
<tr>
<td>PA 663</td>
<td>Public Budgeting and Finance</td>
<td>4</td>
</tr>
<tr>
<td>PA 664</td>
<td>Management of Public Organizations</td>
<td>4</td>
</tr>
<tr>
<td>PA 672</td>
<td>Administrative Regulation</td>
<td>4</td>
</tr>
<tr>
<td>PA 680</td>
<td>Public Policy Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following groups: 12

**Group A:**

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 MPA Graduate Coordinator. No more than four units may be taken from 500-level courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 999</td>
<td>Comprehensive Examination (Students must successfully complete the first 8 courses in order to register for the comprehensive examination.)</td>
</tr>
</tbody>
</table>

**Group B:**

Eight units of electives to be chosen from any Department of Public Administration 500- or 600-level courses in consultation with the MPA Graduate Coordinator.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 695</td>
<td>Graduate Research Project</td>
</tr>
</tbody>
</table>

**Total Units** 48

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.

**Comprehensive Examination Option: Cyber Security Concentration**

<table>
<thead>
<tr>
<th>Degree Requirements (56)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 603 Research Methods in Administration</td>
</tr>
<tr>
<td>PA 611 Public Administration Theory and Practice</td>
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<tr>
<td>PA 615 Public Financial Management</td>
</tr>
<tr>
<td>PA 650 Public Management Information Systems</td>
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<tr>
<td>PA 662 Human Resource Management in the Public Sector</td>
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<tr>
<td>PA 672 Administrative Regulation</td>
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<tr>
<td>PA 680 Public Policy Analysis</td>
</tr>
<tr>
<td>IST 511 Cyber Defense</td>
</tr>
<tr>
<td>IST 610 Information Assurance Policy and Management</td>
</tr>
<tr>
<td>IST 646 Information Systems Planning, Strategy and Policy</td>
</tr>
<tr>
<td>IST 647 Information Based Management</td>
</tr>
<tr>
<td>IST 648 Information Networking Systems and Security</td>
</tr>
<tr>
<td>PA 999 Comprehensive Examination (Students must successfully complete the first 8 courses in order to register for the comprehensive examination.)</td>
</tr>
</tbody>
</table>

**Total Units** 56
Master of Business Administration

Requirements (48 units)

The Master of Business Administration (M.B.A.) program provides postbaccalaureate students with a high-quality master-level education in the field of business administration. The program is designed to prepare promising students for positions of increasing responsibility and leadership through education in the broad scope of business and through in-depth knowledge in one or more specialized areas of business. The program is open to all qualified students, regardless of undergraduate major.

Admission to the M.B.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor’s degree from an accredited college or university;
2. Submission of an acceptable score, as determined by the College Curriculum Committee, on the Graduate Management Aptitude Test (GMAT) or Graduate Record Exam (GRE). An applicant may request waiver of the GMAT or GRE upon proof of completion of graduate work (e.g. J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university with a minimum GPA of 3.0;
3. 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;
4. In addition to the GMAT or GRE 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 achieve and acceptable score, as determined by the College Curriculum Committee, on the Test of English as a Foreign Language (TOEFL) or the IELTS exam or complete CSUSB’s ESL program.

Program Regulations

Students accepted by the program must complete online MBA Business Boot Camp before starting first quarter of classes, unless later completion is approved by the MBA 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 an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of the graduate director of the College of Business and Public Administration.

Requirements for Graduation

1. A minimum of 60 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 48 units completed at the university;
2. At least 28 quarter units of 600-level course work;
3. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective concentration as outlined in the curriculum section;
5. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
6. After advancement to candidacy, students must complete ADMN 691, an experiential course integrating the MBA core, in addition to what is required by their focus area (e.g. thesis, project or comprehensive exam):
7. The graduation writing requirement is met upon successful completion of ADMN 602;
8. Any additional general requirements not cited above and listed in Graduate Degree Program Requirements (p. 60).

Focus areas are stated below. A "no credit" (NC) designation will be entered on the student’s transcript if he/she fails the MBA Culminating Experience course. Students who do not receive a passing grade on the first attempt must petition the college’s director of graduate studies for permission to retake the culminating experience.

Degree Requirements (60 units)

Foundation (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 601</td>
<td>Data-Driven Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 602</td>
<td>Advanced Managerial Communications</td>
<td>4</td>
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</tbody>
</table>

Essentials (32)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 606</td>
<td>Accounting for Managerial Decision-Making</td>
<td>4</td>
</tr>
<tr>
<td>FIN 602</td>
<td>Financial Theory and Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>IST 609</td>
<td>Information Systems and Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 601</td>
<td>Organization Theory and Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 685</td>
<td>Corporate Strategy in a Global Economy</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 605</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>SCM 607</td>
<td>Managing the Supply Chain</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 691</td>
<td>Culminating Business Analyst Project</td>
<td>4</td>
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</table>

Focus Area (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 610</td>
<td>Financial Reporting and Disclosure</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 615</td>
<td>Controllership</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 620</td>
<td>Internal Auditing and Management Controls</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 625</td>
<td>Seminar in Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 629</td>
<td>Seminar in Tax and Business Decisions</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 642</td>
<td>International Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 580A-E</td>
<td>Doing Business Internationally</td>
<td></td>
</tr>
</tbody>
</table>
FIN 555  Trade and Business in Asia  4  One additional elective either chosen from the two courses not chosen in category 4 above, or any other 600-level business administration concentration course approved by the MBA director and the department chair.

**Total Units**  20

**Business Intelligence and Information Technology Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IST 645</td>
<td>Information Systems Analysis and Design</td>
<td>4</td>
</tr>
<tr>
<td>IST 646</td>
<td>Information Systems Planning, Strategy and Policy</td>
<td>4</td>
</tr>
<tr>
<td>IST 647</td>
<td>Information Based Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 650</td>
<td>Information Decision Systems</td>
<td>4</td>
</tr>
<tr>
<td>IST 648</td>
<td>Information Networking Systems and Security</td>
<td>4</td>
</tr>
<tr>
<td>IST 670</td>
<td>Business Geographical Information Systems Strategies</td>
<td>4</td>
</tr>
<tr>
<td>SCM 505</td>
<td>Advanced Enterprise Resource Planning</td>
<td>4</td>
</tr>
<tr>
<td>or IST 505</td>
<td>Advanced Enterprise Resource Planning</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 640</td>
<td>Advanced Marketing Research</td>
<td>4</td>
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</tbody>
</table>

**Total Units**  20

**Cyber Security Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IST 511</td>
<td>Cyber Defense</td>
<td>4</td>
</tr>
<tr>
<td>IST 610</td>
<td>Information Assurance Policy and Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 646</td>
<td>Information Systems Planning, Strategy and Policy</td>
<td>4</td>
</tr>
<tr>
<td>IST 647</td>
<td>Information Based Management</td>
<td>4</td>
</tr>
<tr>
<td>IST 648</td>
<td>Information Networking Systems and Security</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units**  20

**Entrepreneurship Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 621</td>
<td>Entrepreneurship and New Ventures</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 623</td>
<td>Piloting the New Venture</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 625</td>
<td>New Venture Planning and Strategy</td>
<td>4</td>
</tr>
<tr>
<td>Eight units chosen from:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>FIN 622</td>
<td>Entrepreneurial and Venture Finance</td>
<td></td>
</tr>
<tr>
<td>IST 623</td>
<td>Entrepreneurial Information Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 545</td>
<td>New Venture Resource Requirements</td>
<td></td>
</tr>
<tr>
<td>MGMT 547</td>
<td>Managing a Growing Business</td>
<td></td>
</tr>
<tr>
<td>MGMT 620</td>
<td>Business Law for Entrepreneurs</td>
<td></td>
</tr>
<tr>
<td>MKTG 624</td>
<td>Marketing for Entrepreneurs</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**  20

**Finance Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 651</td>
<td>Financial Institutions and Markets</td>
<td>4</td>
</tr>
<tr>
<td>FIN 653</td>
<td>Investment Analysis and Portfolio Management</td>
<td>4</td>
</tr>
<tr>
<td>FIN 654</td>
<td>International Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 680</td>
<td>Corporate Financial Strategy</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ADMN 580A-E</td>
<td>Doing Business Internationally</td>
<td></td>
</tr>
<tr>
<td>FIN 523</td>
<td>Security Trading and Analysis</td>
<td></td>
</tr>
<tr>
<td>FIN 527</td>
<td>Financial Derivatives</td>
<td></td>
</tr>
<tr>
<td>FIN 534</td>
<td>Export-Import Financing</td>
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</tr>
<tr>
<td>FIN 546</td>
<td>Student Managed Investment Fund</td>
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<tr>
<td>FIN 555</td>
<td>Trade and Business in Asia</td>
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</tr>
<tr>
<td>FIN 585</td>
<td>Real Estate Finance</td>
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<tr>
<td>FIN 622</td>
<td>Entrepreneurial and Venture Finance</td>
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</tr>
<tr>
<td>FIN 655</td>
<td>Management of Financial Institutions</td>
<td></td>
</tr>
<tr>
<td>FIN 675</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>FIN 690</td>
<td>Advanced Topics in Finance</td>
<td></td>
</tr>
<tr>
<td>IST 646</td>
<td>Information Systems Planning, Strategy and Policy</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**  20

**Global Supply Chain Management Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 515</td>
<td>Project Management</td>
<td>4</td>
</tr>
<tr>
<td>SCM 611</td>
<td>Global Supply Chain Management and Logistics</td>
<td>4</td>
</tr>
<tr>
<td>SCM 660</td>
<td>Transportation and Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 650</td>
<td>Managing and Leading Global Business</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>SCM 590</td>
<td>Seminar in Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>SCM 650</td>
<td>Information Decision Systems</td>
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</tr>
<tr>
<td>MGMT 626</td>
<td>International New Venture Development</td>
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</tr>
<tr>
<td>MKTG 696</td>
<td>Marketing Strategy</td>
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</tbody>
</table>

**Total Units**  20

**Management Focus**

Twenty units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 580A-E</td>
<td>Doing Business Internationally</td>
<td></td>
</tr>
<tr>
<td>MGMT 641</td>
<td>Managing Human Resources</td>
<td></td>
</tr>
<tr>
<td>MGMT 642</td>
<td>Communication and Interpersonal Processes</td>
<td></td>
</tr>
<tr>
<td>MGMT 644</td>
<td>Industrial Relations</td>
<td></td>
</tr>
<tr>
<td>MGMT 645</td>
<td>Negotiation and Bargaining</td>
<td></td>
</tr>
<tr>
<td>MGMT 650</td>
<td>Managing and Leading Global Business</td>
<td></td>
</tr>
<tr>
<td>MGMT 655</td>
<td>Leadership for Modern Organizations</td>
<td></td>
</tr>
<tr>
<td>MGMT 660</td>
<td>Managing Teams in the Workplace</td>
<td></td>
</tr>
<tr>
<td>MGMT 690</td>
<td>Advanced Topics in Management</td>
<td></td>
</tr>
<tr>
<td>COMM 522</td>
<td>Mediation Theory and Practice</td>
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</tr>
</tbody>
</table>

**Total Units**  20

**Marketing Management Focus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 610</td>
<td>Consumer and Organizational Buying Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 620</td>
<td>Advertising Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 640</td>
<td>Advanced Marketing Research</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 696</td>
<td>Marketing Strategy</td>
<td>4</td>
</tr>
<tr>
<td>Four units from 500- or 600-level courses chosen in consultation with an advisor.</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**  20
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 score, as determined by the College Curriculum Committee, on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE) which may be waived upon proof of substantial work experience (minimum 10 years) and significant managerial or professional experience (minimum of five years). 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 or GRE 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 achieve an acceptable score, as determined by the College Curriculum Committee, on the Test Of English as a Foreign Language (TOEFL) or the IELTS exam or complete CSUSB’s ESL Program.

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:
   ADMN 998 Comprehensive Project 0
   ADMN 999 Comprehensive Examination 0
7. Successful completion of ADMN 995.

Prerequisites

Managerial Tools Courses (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 501</td>
<td>Quantitative Methods for Managers</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 502</td>
<td>Managerial Communication and Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 606</td>
<td>Accounting for Managerial Decision-Making</td>
<td>4</td>
</tr>
<tr>
<td>FIN 602</td>
<td>Financial Theory and Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>IST 609</td>
<td>Information Systems and Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 601</td>
<td>Organization Theory and Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 685</td>
<td>Corporate Strategy in a Global Economy</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 605</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>SCM 607</td>
<td>Managing the Supply Chain</td>
<td>4</td>
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</tbody>
</table>
Functional Elective Courses (20)
Twenty units from the College of Business and Public Administration graduate electives chosen in consultation with an advisor.

Culminating Experience (0)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 995</td>
<td>MBA Portfolio</td>
<td>0</td>
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<tr>
<td>ADMN 998</td>
<td>Comprehensive Project</td>
<td>0</td>
</tr>
<tr>
<td>or ADMN 999</td>
<td>Comprehensive Examination</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 48

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.
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;
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7. In addition to the GMAT or GRE 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 achieve an acceptable score, as determined by the College Curriculum Committee, on the Test Of English as a Foreign Language (TOEFL) or the IELTS exam or complete CSUSB’s ESL Program.

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:
   - ADMN 998 Comprehensive Project 0
   - ADMN 999 Comprehensive Examination 0
7. Successful completion of ADMN 995.

Prerequisites

Managerial Tools Courses (8)
ADMN 501 Quantitative Methods for Managers 4
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)
ACCT 606 Accounting for Managerial Decision-Making 4
FIN 602 Financial Theory and Corporate Finance 4
IST 609 Information Systems and Technology Management 4
MGMT 601 Organization Theory and Behavior 4
MGMT 685 Corporate Strategy in a Global Economy 4
MKTG 605 Marketing Management 4
SCM 607 Managing the Supply Chain 4

Functional Elective Courses (20)
Twenty units chosen in consultation in a specific concentration. 20
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 995</td>
<td>MBA Portfolio</td>
<td>0</td>
</tr>
<tr>
<td>ADMN 998</td>
<td>Comprehensive Project</td>
<td>0</td>
</tr>
<tr>
<td>or ADMN 999</td>
<td>Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

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.
## Minor in Accounting

**Requirements (28 units)**

### Requirements for a minor in Accounting

**Lower-division requirements (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper-division requirements (20)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 372</td>
<td>Intermediate Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 315</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>ACCT 347</td>
<td>Management Accounting and Decision</td>
<td></td>
</tr>
<tr>
<td>ACCT 373</td>
<td>Problem Areas in Intermediate Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 426</td>
<td>Introduction to Taxation</td>
<td></td>
</tr>
<tr>
<td>ACCT 440</td>
<td>Financial Statement Auditing</td>
<td></td>
</tr>
<tr>
<td>ACCT 442</td>
<td>Internal and Operational Auditing</td>
<td></td>
</tr>
<tr>
<td>ACCT 468</td>
<td>Accounting for Government and Not-for-Profit Organizations</td>
<td></td>
</tr>
<tr>
<td>ACCT 536</td>
<td>Corporate and Partnership Taxation</td>
<td></td>
</tr>
<tr>
<td>ACCT 539</td>
<td>Advanced Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 541</td>
<td>EDP Auditing and Control</td>
<td></td>
</tr>
<tr>
<td>ACCT 544</td>
<td>Accounting Law, Ethics and Institutions</td>
<td></td>
</tr>
<tr>
<td>ACCT 547</td>
<td>Cost Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 556</td>
<td>Estates and Gifts and other Specialized</td>
<td></td>
</tr>
<tr>
<td>ACCT 574</td>
<td>Reporting Issues in Intermediate Accounting</td>
<td></td>
</tr>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 28
## Minor in Business Administration

### Requirements (28 units)

**Requirements for a minor in Business Administration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Total Units</th>
<th>28</th>
</tr>
</thead>
</table>
## Minor in Business Information Mapping

### Requirements (32 units)

**Requirements for a minor in Business Information Mapping**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 280</td>
<td>Information Mapping and Data Visualization</td>
<td>4</td>
</tr>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td>IST 480</td>
<td>Advanced Information Mapping and Visualization</td>
<td>4</td>
</tr>
</tbody>
</table>

**Technical Area. Eight units chosen from:**

- IST 274 Data Base Management and Policies
- IST 282 Business Systems I
- MKTG 416 Marketing Research
- SCM 350 Decision Making in Supply Chain and Transportation Management

**General Area. Eight units chosen from:**

- FIN 380 Principles of Real Estate
- FIN 432 Financial Institutions and Capital Formation
- IST 378 Problem Solving and Risk Management
- PA 521 Principles of Planning
- PA 564 Local Public Administration
- SCM 440 Transportation Systems Management
- SCM 470 Supply Chain Management

**Total Units** | 32
Minor in Entrepreneurship

Requirements (24 units)

Requirements for a minor in Entrepreneurship

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 442</td>
<td>Small Business Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 547</td>
<td>Managing a Growing Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 549</td>
<td>Launching the Entrepreneurial Venture</td>
<td>4</td>
</tr>
</tbody>
</table>

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 455</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>MGMT 515</td>
<td>Business Consulting</td>
</tr>
<tr>
<td>MGMT 541</td>
<td>Commercializing Entrepreneurial Innovation</td>
</tr>
<tr>
<td>MGMT 543</td>
<td>New Venture Opportunity Analysis</td>
</tr>
<tr>
<td>MGMT 545</td>
<td>New Venture Resource Requirements</td>
</tr>
<tr>
<td>MGMT 575</td>
<td>Internship</td>
</tr>
<tr>
<td>MKTG 460</td>
<td>Retailing</td>
</tr>
<tr>
<td>MKTG 520</td>
<td>Integrated Marketing Communication</td>
</tr>
</tbody>
</table>

Total Units 24

NOTE: Students concentrating in Entrepreneurial Management may not minor in Entrepreneurship
## Minor in Finance

### Requirements (24 units)

### Requirements for a minor in Finance

**Lower-division requirements (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper-division requirements (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

- FIN 355  Business and Asian Culture
- FIN 360  Financial Planning Process and Insurance
- FIN 430  Financial Theory and Practice
- FIN 432  Financial Institutions and Capital Formation
- FIN 433  International Business Finance
- FIN 435  Investment Analysis
- FIN 445  Financial Analysis and Decision-Making
- FIN 534  Export-Import Financing

**Total Units** 24
Minor in Human Resources Management

Requirements (24 units)

Requirements for a minor in Human Resources Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 455</td>
<td>Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 456</td>
<td>Developing an Effective Workforce</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 457</td>
<td>Industrial and Labor Relations</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 458</td>
<td>Fair Employment Practices</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units of upper-division elective course work chosen with the approval of a Management Department advisor. 4

Total Units 24

NOTE: Students concentrating in Management may not minor in Human Resources Management.
Minor in Information Systems and Technology

Requirements (24 units)

Requirements for a minor in Information Systems and Technology

Lower-division requirements (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Eight units chosen from any IST 100- and 200-level courses</td>
<td>8</td>
</tr>
</tbody>
</table>

Upper-division requirements (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 309</td>
<td>Information Systems and Technology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Eight units chosen from any IST 300-, 400- and 500-level courses.</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units 24
**Minor in International Business**

Requirements (28 units)

**Requirements for a minor in International Business**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Managing Across Borders</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 470</td>
<td>International Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td></td>
</tr>
<tr>
<td>FIN 433</td>
<td>International Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Business Law</td>
<td></td>
</tr>
<tr>
<td>MGMT 526</td>
<td>Global Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>SCM 445</td>
<td>International Logistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td></td>
</tr>
<tr>
<td>ARAB 316</td>
<td>Arabic for the Professions</td>
<td></td>
</tr>
<tr>
<td>ADMN 575</td>
<td>Internship (must have an international focus)</td>
<td></td>
</tr>
<tr>
<td>ADMN 590C-D</td>
<td>Seminar in Administration (must involve international travel)</td>
<td></td>
</tr>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
<td></td>
</tr>
<tr>
<td>FREN 409</td>
<td>Business French</td>
<td></td>
</tr>
<tr>
<td>GER 312</td>
<td>Business German</td>
<td></td>
</tr>
<tr>
<td>SPAN 316D</td>
<td>Spanish for the Professions: Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td></td>
</tr>
<tr>
<td>ANTH 341</td>
<td>Globalization and Culture</td>
<td></td>
</tr>
<tr>
<td>COMM 304</td>
<td>Intercultural Communication</td>
<td></td>
</tr>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
<td></td>
</tr>
<tr>
<td>ECON 450</td>
<td>Global Economy</td>
<td></td>
</tr>
<tr>
<td>HSCI 359</td>
<td>Global Health</td>
<td></td>
</tr>
<tr>
<td>PSCI 540</td>
<td>Seminar in Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>PSCI 590</td>
<td>Seminar in International Relations</td>
<td></td>
</tr>
<tr>
<td>SSCI 515</td>
<td>Model United Nations (application and entrance exam required)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 28
Minor in Management

Requirements (28 units)

Requirements for a minor in Management

<table>
<thead>
<tr>
<th>Lower-division requirements (8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 100 Introduction to Business and Public Administration</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 230 Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper-division requirements (20)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 302 Management and Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 330 Legal Environment of Business</td>
<td>4</td>
</tr>
<tr>
<td>Twelve units chosen from any MGMT 300-, 400- and 500-level courses.</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Units 28

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 410</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Sixteen units chosen from:</td>
<td>16</td>
</tr>
<tr>
<td>MKTG 415</td>
<td>Product Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 416</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>MKTG 420</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 430</td>
<td>Professional Selling and Sales Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 436</td>
<td>Marketing Decision-Making</td>
<td></td>
</tr>
<tr>
<td>MKTG 446</td>
<td>Advertising Campaign</td>
<td></td>
</tr>
<tr>
<td>MKTG 460</td>
<td>Retailing</td>
<td></td>
</tr>
<tr>
<td>MKTG 470</td>
<td>International Marketing Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 496</td>
<td>Marketing Planning and Strategy</td>
<td></td>
</tr>
<tr>
<td>MKTG 520</td>
<td>Integrated Marketing Communication</td>
<td></td>
</tr>
<tr>
<td>MKTG 525</td>
<td>Sports and Entertainment Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 550</td>
<td>Advanced Sports Marketing Planning and Strategy</td>
<td></td>
</tr>
<tr>
<td>MKTG 555</td>
<td>Advanced Entertainment Marketing Planning and Strategy</td>
<td></td>
</tr>
<tr>
<td>MKTG 560</td>
<td>Services Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 575B-D</td>
<td>Internship in Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 590</td>
<td>Seminar in Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 595A-E</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 24
Minor in Public Administration

Requirements (28 units)

Requirements for a minor in Public Administration

**Lower-division requirement (4)**
- ECON 200  Principles of Microeconomics 4

**Upper-division requirements (24)**
- ECON 475  Public Finance 4
- MGMT 302  Management and Organizational Behavior 4
  or PSYC 302  Management and Organizational Behavior
- PA 380  Introduction to Public Administration 4
  or PSCI 380  Introduction to Public Administration
- PA 462  Public Personnel Administration 4
- PA 463  Governmental Budgeting 4
- PA 472  Administrative Law 4

Total Units 28
## Minor in Real Estate

### Requirements (28 units)

#### Requirements for a minor in Real Estate

**Lower-division requirements (8)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper-division requirements (20)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 314</td>
<td>Corporate Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>FIN 380</td>
<td>Principles of Real Estate</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 355</td>
<td>Business and Asian Culture</td>
</tr>
<tr>
<td>FIN 432</td>
<td>Financial Institutions and Capital Formation</td>
</tr>
<tr>
<td>FIN 480</td>
<td>Real Estate Appraisal</td>
</tr>
<tr>
<td>FIN 481</td>
<td>Real Estate Practice</td>
</tr>
<tr>
<td>FIN 485</td>
<td>Legal Aspects of Real Estate</td>
</tr>
<tr>
<td>FIN 585</td>
<td>Real Estate Finance</td>
</tr>
</tbody>
</table>

**Total Units** 28
Minor in Sports and Entertainment Marketing

Requirements (24 units)

Requirements for a minor in Sports and Entertainment Marketing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 525</td>
<td>Sports and Entertainment Marketing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 550</td>
<td>Advanced Sports Marketing Planning and Strategy</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 555</td>
<td>Advanced Entertainment Marketing Planning and Strategy</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twelve units chosen from:</td>
<td>12</td>
</tr>
<tr>
<td>MGMT 455</td>
<td>Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 305</td>
<td>Marketing Principles</td>
<td></td>
</tr>
<tr>
<td>MKTG 410</td>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>MKTG 416</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>MKTG 420</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 430</td>
<td>Professional Selling and Sales Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 575B-D</td>
<td>Internship in Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 590</td>
<td>Seminar in Marketing</td>
<td></td>
</tr>
<tr>
<td>PA 540</td>
<td>Introduction to Tribal Management and Governance</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 24
Minor in Supply Chain Management

Requirements (28 units)

Requirements for a minor in Supply Chain Management

<table>
<thead>
<tr>
<th>Lower-division requirement (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN 210 Applied Business Statistics</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper-division requirements (24)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 304 Principles of Supply Chain Management</td>
</tr>
<tr>
<td>SCM 305 Enterprise Resource Planning</td>
</tr>
<tr>
<td>SCM 350 Decision Making in Supply Chain and Transportation Management</td>
</tr>
<tr>
<td>SCM 470 Supply Chain Management</td>
</tr>
<tr>
<td>SCM 480 Quality Management</td>
</tr>
<tr>
<td>SCM 490 Logistics Strategy</td>
</tr>
</tbody>
</table>

Total Units 28
College of Education

College of Education
Jay Fiene, Dean
Todd Jennings, Associate Dean
Michael Verdi, Associate Dean
College of Education Building, Room 182
(909) 537-5600 College of Education website (http://www.csusb.edu/coe)

Basic Teaching Credential Programs
• Accredited by the National Council for Accreditation of Teacher Education (NCATE)
• Multiple Subject
• Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD)
• Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track)
• Single Subject
• Single Subject (Intern Track)
• Designated Subjects (Vocational and Adult Education)
• Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
• Internship Education Specialist Credential: Mild/Moderate 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 Education Specialist Credential: Early Childhood Special Education with EL Authorization
• Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization

Master of Arts in Education
• with option 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 and Literacy
• Science Education
• Special Education
• Teaching English to Speakers of Other Languages

Master of Arts
• Educational Administration
• Rehabilitation Counseling

Master of Science
• Counseling and Guidance
• Science, Technology, Engineering and Mathematics Education

Doctor of Education
• Educational Leadership

Minor Education

Certificate
• Education
• School Business Management

Specialist and Services Credential Programs
• Administrative Services Preliminary
• Administrative Services Preliminary (Internship)
• Administrative Services Professional
• Education Specialist Clear Credential
• 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 and Literacy Leadership Specialist
• School Nurse
• Supervision and Coordination of Designated Subjects Programs

Certificate Programs
• Crosscultural, Language and Academic Development (CLAD)
• Education of the Gifted and Talented
• Educational Technology
• Environmental Education
• Holistic and Integrative Education
• Reading/Language Arts
• Rehabilitation Counseling
• School Business Management

Career and Technical Studies
• Bachelor of Arts in Career and Technical Studies
• Bachelor of Science

Division of Teacher Education

Credential Office
College of Education Building, Room 102, (909) 537-5609
Credential Office website (http://www.csusb.edu/coe/offices/student_services/credential_processing)
Masters Program Office and Advanced Credentials
College of Education Building, Room 102, (909) 537-5293
Masters Program and Advanced Credentials website (http://www.csusb.edu/coe/offices/student_services/grad_advanced_cred_prog)

Multiple Subject and Single Subject
College of Education Building, Room 102, (909) 537-5650
Multiple Subject and Single Subject website (http://www.csusb.edu/coe/offices/student_services/teacher_ed_office)

Special Education
College of Education Building, Room 102, (909) 537-7406
Special Education website (http://www.csusb.edu/coe/programs/special_ed)

Supervision Office
College of Education Building, Room 102, (909) 537-5698
Supervision Office website (http://www.csusb.edu/coe/offices/student_services/field_supervision)

Program Admissions
College of Education Building, Room 102, (909) 537-5609
Program Admissions website (http://coe.csusb.edu/studentServices/teacherEducation/teachingPrograms)

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 Education Specialist Credential: Mild to Moderate Disabilities with EL Authorization
- Internship Education Specialist Credential: Mild to Moderate 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

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.

Career and Technical Services
College of Education, Room 335
(909) 537-5290 Career and Technical Studies website (http://coe.csusb.edu/programs/careerTechnicalEd/graduateDegrees/MACTS.html)

Gender and Sexuality Studies Program
College of Education Building, Room 226
(909) 537-5655 Gender and Sexuality Studies Program website (http://gendersexuality.csusb.edu)
Social and Behavioral Sciences Building, Room 207
(909) 537-7502

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.

Master of Arts in Educational Administration
Masters Program Office
College of Education Building, Room 374
(909) 537-7404 CSUSB College of Education website (http://www.csusb.edu/coe)

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
Master of Science in Science, Technology, Engineering, and Mathematics Education

Department of Science, Mathematics and Technology Education

Science, Technology, Engineering, and Mathematics (STEM) Education addresses the interconnections in STEM teaching and learning. This approach makes use of problem-based learning modalities, which are currently used by all existing programs in the department. STEM Education is a synergistic approach for preparing learners in 21st century environments.

Doctor of Education in Educational Leadership

Office of Doctoral Studies

Current Faculty

Nancy Acevedo-Gil, Assistant Professor
B.A. 2006, University of California, Berkeley
M.A. 2009, San Jose State University

Lasisi Ajayi, Associate Professor
B.A. 1983, M.S. 1989, Obafemi Awolowo University, IFE
Ph.D. 1996, Literacy-University of Ibadan

Richard Ashcroft, Professor
B.S. Ed. 1966, East Stroudsburg State University
M.A. Ed. 1981, Sonoma State University
Ed.D. 1990, University of San Francisco

Laura Ashcroft, Lecturer
B.A. 1986, M.A. 1987, Sonoma State University
Ph.D. 2002, University of San Francisco

Eun-OK Baek, Professor
B.A. 1987, M.Ed. 1993, Chinja National University, Korea

Robert Bailey, Lecturer
B.A. 1975, M.A. 1982, California State University, San Bernardino
DED 1997, University of Laverne

Maria V. Balderrama, Professor
B.A. 1978, Wellesley College
M.A. 1988, San Jose State University

Diane K. Brantley, Professor
B.A. 1985, San Diego State University
M.A. 1997, California State University, San Bernardino
Ph.D. 2001, University of Nevada, Las Vegas

Sidney Burks, Lecturer

Marissa Congdon, Assistant Professor
Ph.D., 2013, University of Washington

Susan Daniels, Professor
B.A. 1980, Barat College
M.A. 1990, Northeastern Illinois University
Ph.D. 1995, University of Wisconsin-Madison

Lynn Díaz-Rico, Professor
B.A. 1968, University of Pittsburgh
M.A. Ed. 1977, Arizona State University
Ed.D. 1988, InterAmerican University of Puerto Rico

Carolyn R. Eggleston, Professor
Ph.D. 1989, Virginia Commonwealth University

Jay Fiene, Professor, Dean
Ph.D. 1995, University of Missouri-Columbia, Columbia

Barbara M. Flores, Professor
B.A. 1970, California State University, Hayward
M.A. 1976, California State University, Sacramento
Ph.D. 1982, University of Arizona

Sherri Franklin-Guy, Associate Professor

Thom G. Gehring, Professor
B.A. 1972, Trenton State College
M.Ed. 1975, Ph.D. 1987, Virginia Commonwealth University

Wilbert Greer, Assistant Professor
B.A. 2001, University of California, Riverside
M.A. 2007, California State University, San Bernardino
Ph.D. 2013, Claremont Graduate University

Mark Groen, Associate Professor
B.A. 1981, California State University, Northridge
M.A. 1992, University of Southern California
Ph.D. 2002, University of California, Riverside

Juan M. Gutierrez, Professor, Chair, Teacher Education and Foundations
B.A. 1972, California State University, San Bernardino

Lorraine Hedtke, Associate Professor
Ph.D., University of California, Los Angeles, 2003

Kathryn Howard, Associate Professor
Ph.D., University of California, Los Angeles, 2003

Young Suk Hwang, Professor
B.A. 1989, Chongshin University, Korea
M.Ed. 1993, Ph.D. 1998, Auburn University, Alabama

Todd E. Jennings, Professor, Associate Dean
B.A. 1983, Biola University
M.A. 1989, Ph.D. 1991, Claremont Graduate University

Joseph Jesunathadas, Professor
B.S. 1973, Kerala University
M.S. 1985, Ed.D. 1990, Utah State University

Susan Jindra, Lecturer
B.A. 1972, Columbia University
MILS, 1974, DED 2001, University of Southern California

Kurt Kowalski, Professor
B.A. 1990, Ph.D. 1995, Arizona State University

Amy S.C. Leh, Professor
B.A. 1981, Providence College, Taiwan

Brenda Littleton, Lecturer
B.A. 2001, M.A. 2005, California State University, San Bernardino

Robert H. London, Professor
B.A. 1969, M.S. 1971, University of Pennsylvania
Ed.D. 1975, University of Massachusetts, Amherst

Angela Louque, Professor, Chair, Educational Leadership and Technology
B.A. 1983, University of California, Los Angeles
M.A. 1986, Loyola Marymount
Ed.D. 1995, Pepperdine University

Edna Martinez, Assistant Professor
B.S. 2005, M.Ed. 2007, University of Texas, El Paso
Ph.D. 2014, Clemson University

Marjorie McCabe, Professor
B.S. 1976, M.Ed. 1977, Suffolk University
Ph.D. 1986, University of Southern California

Connie McReynolds, Professor
M.S. 1988, Emporia State University
Ph.D. 1998, University of Wisconsin-Madison

James M. Monaghan, Associate Professor, Assistant Vice President for Academic Technologies and Distributed Learning
B.A. 1985, St. Anselm College
Ed.D. 1996, University of Massachusetts

Thelma Moore-Steward, Professor
B.A. 1972, California State University, Dominguez Hills
M.S. 1975, Ed.D. 1990, University of Southern California

Sang Seok Nam, Professor
B.Ed. 1984, M.A. 1987, Taegu University
Ph.D. 1996, Arizona State University

Gary A. Negin, Professor
B.A. 1971, University of Notre Dame
M.Ed. 1974, Florida Atlantic University
M.A. 1988, Marquette University
Ph.D. 1977, University of Minnesota

Robert (Brett) Nelson, Professor
B.A. 1976, Appalachian State University
M.A. 1980, Georgia State University
Ph.D. 1992, University of Colorado-Boulder

Brian W. Newberry, Professor
B.A. 1985, Southern Illinois University of Edwardsville
M.S. 1993, Northern Arizona University
Ph.D. 2003, University of Kansas

Ronald K. Pendleton, Professor
B.A. 1964, California State College, Humboldt
M.A. 1978, California State University, Long Beach
Ph.D. 1981, Arizona State University

Kathleen M. Phillips, Lecturer
B.A. 1987, Michigan State University
M.A. 1994, California State University, San Bernardino

Louie Rodriguez, Associate Professor
B.A. 1998, California State University, San Bernardino
E.D.M. 1999, Ph.D. 2005, Harvard University

Joseph A. Scarcella, Professor
Ph.D. 1997, University of Missouri-Columbia

Donna L. Schnorr, Professor
B.A. 1984, Flagler College
M.A. 1986, Boston University
Ph.D. 1998, George Mason University

Donna Shea, Lecturer
B.A. 1998, M.A. 2000, California State University, San Bernardino

Catherine E. Spencer, Lecturer
B.A. 1983, California State University, Fullerton
M.A. 1998, California State University, San Bernardino
Ph.D. 2007, University of California, Riverside

Daniel Stewart, Lecturer
Ph.D., 2012, Universidad Central de Nicaragua

Deborah E. Stine, Professor
B.A. 1969, Lake Erie College
M.Ed. Lynchburg College
M.A. 1993, California State University, San Bernardino
Ph.D. 1999, University of California, Riverside

Stanley L. Swartz, Professor
A.B. 1970, Findlay College
M.Ed. 1972, Ph.D. 1976, Bowling Green State University

Dwight P. Sweeney, Professor
A.B. 1970, University of Notre Dame
M.A. 1971, Ph.D. 1981, University of Michigan

Judith Sylva, Professor, Chair, Special Education, Rehabilitation and Counseling
B.A. 1992, University of California, Irvine
Ph.D. 1999, University of California, Riverside

Nena M. Torrez, Professor
A.B. 1972, University of California, Berkeley
J.D. 1975, California Western School of Law
M.A. 1980, California State University, Dominguez Hills
Ph.D. 1988, Claremont College

Maiyoua Vang, Assistant Professor
B.A. 1995, M.A. 2004, California State University, Fresno
Michael Verdi, Professor, Associate Dean
B.S. 1985, University of Notre Dame
M.S. 1986, Northwestern University
Ph.D. 1994, Arizona State University

Dudley J. Wiest, Professor
B.S. 1979, Concordia College
M.A. 1983, California State University, Northridge
Ph.D. 1992, Claremont Graduate University

Doris Wilson, Associate Professor
B.S. 1964, Southwest Missouri State University
M.S. 1971, Azusa Pacific College
Ed.D. 1975, University of Southern California

John M. Winslade, Professor
B.A. 1973, M.A. 1990, University of Auckland
Ph.D. 2003, University of Maikato

Randall L. Wright, Professor
Ph.D. 2001, University of Calgary

Xinying Yin, Assistant Professor
Ph.D., 2013, Indiana University - Bloomington

Laura H. Young, Associate Professor

Emeriti
Susan J. Brotherton, Professor
Herbert K. Brunkhorst, Professor
Bonnie Brunkhorst, Professor
Katharine Busch, Associate Professor
Renate Caine, Professor
Margaret H. Cooney, Professor
Samuel M. Crowell, Professor
Esteban Diaz, Professor
G. Keith Dolan, Professor
Cheryl F. Fischer, Professor
Robert G. Fisk, Professor
Louise Fulton, Professor
Ernest Garcia, Professor
Rosalie Giacchino-Baker, Professor
Joseph W. Gray, Associate Professor
Richard Griffiths, Professor
Mildred M. Henry, Professor
Jose S. Hernandez, Professor
Irvin Howard, Professor
Sherry M. Howie, Professor
Kenneth Johns, Professor
Adria Klein, Professor
Nathan Kravetz, Professor
Ellen Kronowitz, Professor
Kenneth E. Lane, Professor
Barbara D. Larrivee, Professor
Camille Mayers, Assistant Professor
Richard Moss, Professor
T. Patrick Mullin, Professor
Ruth A. Norton, Professor
Bonnie J. Piller, Associate Professor
Judith M. Rymer, Professor
Ruth A. Sandlin, Professor
Rowena Santiago, Professor
Robert Senour, Professor
Gary Sherwin, Associate Professor
Mary Jo Skillings, Professor
Sue A. Spitzer, Associate Professor
Gordon E. Stanton, Professor
Helena Villacres Stanton, Associate Professor
David Sline, Professor
Darleen K. Stoner, Professor
Elton N. Thompson, Professor
Arthur J. Townley, Professor
Joseph Turpin, Professor
Steven R. Wagner, Associate Professor
Janet Woerner, Professor
Alvin Wolf, Professor

Graduate Degrees
Master of Arts in Education with option in
• Correctional and Alternative Education (p. 475)
• Kinesiology (p. 477)
• Mathematics and Science Education (p. 481)
• Teacher Leadership (p. 479)
Master of Science
- Counseling and Guidance (p. 483)

Doctor of Education
- Educational Leadership (p. 485)

Basic Teaching Credential Programs
Accredited by the National Council for Accreditation of Teacher Education (NCATE)

- Adapted Physical Education Added Authorization (p. 488)
- Autism Spectrum Disorder Added Authorization in Special Education (p. 489)
- Designated Subjects Career and Technical Education Teaching Credential (p. 490)
- Early Childhood Special Education Added Authorization (p. 491)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 492)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 494)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 496)
- Multiple Subject (p. 498)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) (p. 500)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) (p. 502)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 507)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 509)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 505)
- Single Subject (Student Teaching Track) (p. 511)
- Single Subject (Intern Track) (p. 514)

Specialist and Services Credential Programs
- Administrative Services Preliminary (p. 517)
- Administrative Services Preliminary (Internship) (p. 518)
- Administrative Services Professional (p. 519)
- Education Specialist Clear Credential (p. 520)
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 521)
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 522)
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 523)
- Pupil Personnel Services: School Counseling (p. 524)
- Pupil Personnel Services: School Psychology (p. 525)
- Reading and Literacy Leadership Specialist Credential (p. 527)
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- Education (p. 540)
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Coordinator: Todd Jennings

Certificates
- Education (p. 532)

Certificate Programs
- Crosscultural, Language and Academic Development (CLAD) (p. 530)
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- Education of the Gifted and Talented (p. 533)
- Educational Technology (p. 534)
- Environmental Education (p. 535)
- Gender and Sexuality Studies (p. 536)

Coordinator: Todd Jennings
- Holistic and Integrative Education (p. 537)
- Reading and Literacy (p. 538)
- School Business Management (p. 539)

Career and Technical Studies Courses

ECTS 335. Introduction to Career and Technical Studies. 4 Units.
Prerequisites: consent of instructor
Introduction to the history, philosophy, literature and organizations of comprehensive vocational, technical and occupational workforce development programs. Formerly EVOC 335.

ECTS 435. Trends and Issues in Career and Technical Programs. 4 Units.
Assessment of students 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) by qualified faculty for recommended credit toward BCTS degree. Formerly EVOC 435.

ECTS 501. Principles and Methods for Teaching Designated Subjects. 4 Units.
Principles and Methods for Teaching Designated Subjects Formerly EVOC 501.
ECTS 502. Instructional Support for Teaching Designated Subjects. 4 Units.
Prerequisites: ECTS 501 or consent of instructor
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.

ECTS 503. Contemporary Issues in Teaching Designated Subjects. 4 Units.
Prerequisites: ECTS 501 or consent of instructor
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.

ECTS 504. Principles of Career and Technical Education. 4 Units.
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.

ECTS 508. Organization and Structure of Career and Technical Programs. 4 Units.
Corequisites: ECTS 509 and 510
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.

ECTS 509. Personnel Management in Career and Technical Programs. 4 Units.
Corequisites: ECTS 508 and 510
Principles of personnel selection, evaluation, supervision, school law, and related topics as they apply to career and technical programs. Formerly EVOC 509.

ECTS 510. Field Work in Coordination and Supervision of Career and Technical Programs. 4 Units.
Corequisites: ECTS 508 and 509
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.

ECTS 518. Field Work in Designated Subjects. 4 Units.
Prerequisite/Corequisite: ECTS 501 and consent of instructor
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.

ECTS 519. Computer Applications for Career and Technical Educators. 4 Units.
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.

ECTS 520. Curriculum Development for Career and Technical Programs. 4 Units.
Prerequisites: ECTS 501 or its equivalent
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.

ECTS 521. Assessing Student Progress. 4 Units.
Prerequisites: ECTSC 520 or consent of instructor
The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Formerly EVOC 521.

ECTS 522. Directing and Managing Occupational Programs. 4 Units.
Prerequisites: ECTS 520 and MGMT 302 or PSYC 302
Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Formerly EVOC 522.

ECTS 523. Learning Theory and Instructional Research Applied to Adult Learners. 4 Units.
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.

ECTS 540. Topics in Career and technical Education. 2 Units.
Study of selected areas of education topics to be determined by the instructor. May be repeated for credit with consent of the instructor as topics change up to a maximum of 4 units.

ECTS 542A. Seminar in Vocational Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EVOC 542A.

ECTS 542B. Seminar in Vocational Education. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EVOC 542B.

ECTS 542C. Seminar in Vocational Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EVOC 542C.

ECTS 542D. Seminar in Vocational Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EVOC 542D.
ECTS 637. Foundations of Career and Technical Studies. 4 Units.
Prerequisites: graduate standing
Historical context, philosophy and development of vocational education. Formerly EVOC 637.

ECTS 638. Critical Issues for the Career and Technical Educator. 4 Units.
Prerequisites: ECTS 637 or consent of instructor
Current legislation, program planning, professional development and current issues in vocational education. Formerly EVOC 638.

ECTS 639. Professional Competencies in Career and Technical Studies. 4 Units.
Prerequisites: ECTS 638 or consent of instructor
Roles of professional organizations, research in vocational education, grant writing and strategies for project evaluation. Formerly EVOC 639.

ECTS 640B. Topics in Education. 2 Units.
Prerequisites: graduate standing and consent of instructor
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.

ECTS 640C. Topics in Education. 3 Units.
Prerequisites: graduate standing and consent of instructor
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 640C.

ECTS 640D. Topics in Education. 4 Units.
Prerequisites: graduate standing and consent of instructor
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 640D.

ECTS 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Formerly EVOC 999.

Correctional and Alternative Courses

EDCA 514. Foundations of Institutional Education: History and Literature. 4 Units.
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.

EDCA 516. Teaching the Institutional Student. 4 Units.
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.

EDCA 518. Social and Cultural Dynamics of Institutional Education. 4 Units.
Prerequisite/Corequisite: EDCA 514
Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include post-modernism 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.

EDCA 520. Educational Change in Institutional Setting. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 528. Special Education in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 530. Alternative and Correctional Education. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.
EDCA 532. Career and Vocational Education in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 534. Correctional Education Leadership. 4 Units.
Prerequisite/Corequisite: EDCA 514
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. (4 units.

EDCA 536. Pedagogy and Andragogy in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 538. Organization of Correctional and Alternative Education Service Delivery. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 540. Literacy in Adult Confinement Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 542. Library Services for Alternative and Correctional Students. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 544. Pre- and Post-Release Transitions for Correctional Students. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 546. Comparative Correctional Education. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 548. Special Topics in Correctional and Alternative Education. 4 Units.
Prerequisite/Corequisite: EDCA 514
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.

EDCA 614. Foundations of Institutional Education: History and Literature. 4 Units.
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.
EDCA 616. Teaching the Institutional Student. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 618. Social and Cultural Dynamics of Institutional Education. 4 Units.
Prerequisite/Corequisite: EDCA 614
Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include post-modernism 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.

EDCA 620. Educational Change in Institutional Settings. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 628. Special Education in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 614
Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphasis includes 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.

EDCA 630. Alternative and Correctional Education. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 632. Career and Vocational Education in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 634. Correctional Education Leadership. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 636. Pedagogy and Andragogy in Correctional Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 614
Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphasizes 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.

EDCA 638. Organization of Correctional and Alternative Education Service Delivery. 4 Units.
Prerequisite/Corequisite: EDCA 614
Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 538. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements.

EDCA 640. Literacy in Adult Confinement Institutions. 4 Units.
Prerequisite/Corequisite: EDCA 614
Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of third space alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 540. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements.
EDCA 642. Library Services for Alternative and Correctional Students. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 644. Pre- and Post-Release Transitions for Correctional Students. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 646. Comparative Correctional Education. 4 Units.
Prerequisite/Corequisite: EDCA 614
Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the normalization of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 546. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements.

EDCA 684. Special Topics in Correctional and Alternative Education. 4 Units.
Prerequisite/Corequisite: EDCA 614
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.

EDCA 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the Masters program and good academic standing
An assessment of the students ability to integrate the knowledge of Correctional and Alternative Education, show critical and independent thinking and demonstrate mastery of the subject matter. Graded credit/no credit.

Curriculum and Instruction Courses

EDCI 540. Differentiated Curriculum and Instruction
Creativity, Thinking and Problem Solving. 4 Units.
Methods of designing curriculum and instruction to accommodate differences and diversity in learners, with an emphasis on utilizing differentiated instructional methodologies to meet needs of all learners in the regular classroom.

EDCI 543. Creativity, Thinking and Problem Solving. 4 Units.
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.

EDCI 620. School Curriculum. 4 Units.
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.

EDCI 624. Advanced Teaching Methodology. 4 Units.
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.

EDCI 628. Educational Assessment in K-12 Schools. 4 Units.
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.

EDCI 630. Childrens Literature in the Classroom. 4 Units.
Prerequisites: EELB 345 or consent of instructor
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.

EDCI 632. Mathematics Clinic. 4 Units.
Prerequisites: MATH 301 and four additional quarter units in mathematics
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.

EDCI 633. History of Education in the United States. 4 Units.
History of education in the United States for educational professionals, including key events, policy changes and social movements that have shaped contemporary schooling, with an emphasis on social and cultural changes that transformed education.

EDCI 634. Contemporary Issues in Social Studies. 4 Units.
Advanced seminar exploring contemporary issues as well as current research, curriculum, and methods in K-12 social studies instruction.
EDCI 636. Advanced Science Methods. 4 Units.
Prerequisites: consent of instructor
Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Formerly EELB 636.

EDCI 638. Advanced Educational Psychology. 4 Units.
Prerequisites: an upper-division child development course
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.

EDCI 641. Curriculum and Policy. 4 Units.
History, organization and operation of American K-12 schools. Particular emphasis on curriculum trends, student assessment, educational policy, and current reform efforts.

EDCI 645. Academic Language Development Strategies K-12. 4 Units.
Presents core readings and an underlying rationale that emphasize the fundamental connection between academic/content area language development and overall academic achievement.

EDCI 650A. Professional Teacher Development: Seminar A. 4 Units.
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.

EDCI 650B. Professional Teacher Development: Seminar B. 4 Units.
Prerequisite/Corequisite: EDCI 650A
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.

EDCI 652. Service Learning in Public Schools. 4 Units.
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.

EDCI 653. Supervision and Mentoring of Classroom Teachers. 4 Units.
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.

EDCI 655. Early Adolescent Educational Psychology. 4 Units.
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.

EDCI 656. Curriculum for Early Adolescents. 4 Units.
Prerequisites: EDCI 620 and 628
Curriculum development and alignment to the state standards for grades 5-9, including assessment and accountability methods and measures. Formerly ESEC 521 and 621.

EDCI 657. Instructional Strategies for Early Adolescent Education. 4 Units.
Prerequisites: EDCI 624
Effective instructional methods and evaluation procedures that address the needs of early adolescents in grades 5-9. Formerly ESEC 521 and 621.

EDCI 658. Comprehensive Evaluation in Curriculum and Instruction. 2 Units.
Prerequisites: advancement to candidacy and permission of program coordinator
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.

EDCI 664. Thesis/Project Design in Curriculum and Instruction. 2 Units.
Prerequisites: completion of all core and required program courses in the M.A. in Education, Curriculum and Instruction Option
Steps and processes involved in the design and development of research proposals with emphasis on masters thesis/project. Formerly EELB 664, 698 and ESEC 664.

EDCI 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Grade credit/no credit.

Educ Eng Speakers other Lang Courses

EESL 500. Introduction to Teaching English to Speakers of Other Languages. 4 Units.
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.
EESL 501. Foundations of TESOL. 4 Units.
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.

EESL 505. Differentiated Curriculum in TESOL. 4 Units.
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.

EESL 514. Curriculum Design in TESOL. 4 Units.
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.

EESL 521. Computer-Assisted Language Learning. 4 Units.
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.

EESL 524. Supervised Observation/Participation in Teaching English to Speakers of Other Languages. 2 Units.
Observation/participation opportunities for candidates in English-as-a-second-language and English-as-a-foreign-language classrooms.

EESL 525. Tutoring Methods in Teaching English to Speakers of Other Languages. 2 Units.
Tutoring and small-group teaching of English to second-language learners, including strategies for tutoring in speaking, listening, reading, writing, and grammar.

EESL 533. TESOL Crosscultural Teaching Practicum. 2 Units.
Practicum in cultural practices in teaching English in English-as-a-foreign-language (EFL) settings.

EESL 536. Crosscultural Teaching. 4 Units.
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.

EESL 540. Teaching Adult English Learners. 4 Units.
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.

EESL 542D. Special Topics in ESL:. 4 Units.
Intensive study of selected topics in education. May be repeated for credit as topics change.

EESL 543. Listening and Speaking Methods in TESOL. 4 Units.
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.

EESL 544. Reading Methods for TESOL. 4 Units.
Reading methods for English language learners, featuring literacy transfer from the first language, explicit instructions in phonetics, and emergent literacy for adults.

EESL 545. Writing Methods in TESOL. 4 Units.
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.

EESL 613. Cognition and Language Acquisition. 4 Units.
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.

EESL 660. Second Language Acquisition Classroom Research. 4 Units.
Survey of historical and contemporary theories and methodologies for acquiring a second language, both in English-as-a-second-language (ESL) and English-as-a-foreign-language (EFL) classroom settings. Formerly EESL 515.

EESL 665. Creative Teaching in TESOL. 4 Units.
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.

EESL 670. Principles and Practice in TESOL. 4 Units.
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.

EESL 671. Survey of Methods in Teaching English as a Foreign Language. 4 Units.
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.
EESL 678. Studies in K-12 Classroom Discourse. 4 Units.
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.

EESL 679. Fieldwork: Teaching English to Speakers of Other Languages. 4 Units.
Prerequisites: consent of advisor
Supervised field work in selected teaching methods and materials development. Formerly EELB 679A and ESEC 679A.

EESL 680. Practicum in Teaching English to Speakers of Other Languages (TESOL). 4 Units.
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.

EESL 685. Research in TESOL. 4 Units.
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.

EESL 686. Advanced Research Methods in TESOL. 4 Units.
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.

EESL 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Educational Administration Courses

EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 514B. School Business Management and Service Functions: Risk Management. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 514D. School Business Management and Service Functions: Facilities Planning, Construction. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 514F. School Business Management and Service Functions: Employee Supervision. 2 Units.
A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

EADM 542A. Seminar in Educational Administration. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EADM 542B. Seminar in Educational Administration. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EADM 542C. Seminar in Educational Administration. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EADM 542D. Seminar in Educational Administration. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EADM 601. Educational Leadership and Ethics. 4 Units.
Prerequisites: admission to Educational Administration program or consent of program coordinator
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.
EADM 602. Research Methods in Educational Administration. 4 Units.
Prerequisite/Corequisite: EADM 601, EADM 603, and consent of program coordinator
Introduction to qualitative, quantitative and action research for school administrators using APA guidelines. Includes a proposal for an action research project.

EADM 603. Application of Leadership, Ethics and Organizational Theory. 1 Unit.
Prerequisites: admission to Educational Administration program or consent of program coordinator
Introduction to the assessment and fieldwork component of school administration including leadership, vision, and ethics. Initial assessment of candidate competence on the California Standards of Quality and Effectiveness for Preliminary Administrative Services Credentials. Candidates apply concepts of leadership, ethics and organization developed in EADM 601. Must be taken during the first quarter of the program concurrently with EADM 601.

EADM 607. Culture, Politics and Communication in Diverse Society. 4 Units.
Prerequisite/Corequisite: EADM 601 and EADM 603 or consent of program coordinator
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.

EADM 610. Supervision and Evaluation of Teachers. 4 Units.
Prerequisite/Corequisite: EADM 601 and EADM 603, or consent of program coordinator
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.

EADM 613. School Personnel Management. 4 Units.
Prerequisite/Corequisite: EADM 601 and EADM 603 or admission to the Educational Administration program
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.

EADM 617. Cultural and Political Experiences. 1 Unit.
Prerequisite/Corequisite: EADM 601, EADM 603 and EADM 607 or consent of program coordinator
Cultural and political experiences in diverse communities. Additional hours entailed.

EADM 619. Policy, Governance and Legal Aspects of Education. 4 Units.
Prerequisite/Corequisite: EADM 601 and EADM 603
Current laws and court decisions affecting public education with special emphasis on the laws of the State of California.

EADM 620. Practicum in Educational Administration. 1 Unit.
Prerequisite/Corequisite: EADM 601 and admission to Preliminary Administrative Services Credential or consent of program coordinator
Practicum for the Preliminary Administrative Services Credential is designed to fulfill the experiences required in the students induction plan. Students 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.

EADM 621A. Fieldwork in Educational Administration I. 2 Units.
Prerequisites: EADM 601, 603, 610, 620, advancement to candidacy and permission of the program coordinator
Administrative fieldwork at the elementary and 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.

EADM 621B. Fieldwork in Educational Administration II. 2 Units.
Prerequisites: EADM 601, EADM 617, EADM 621A and EADM 622
Administrative fieldwork at the elementary and 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.

EADM 622. Curriculum, Instruction and Assessment. 4 Units.
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/corequisites: EADM 601 and EADM 603 or consent of program coordinator.

EADM 625. School Finance and Business Management. 4 Units.
Prerequisite/Corequisite: EADM 601 and EADM 603 and admission to the Educational Administration program
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.

EADM 626. Issues and Trends in School Administration. 4 Units.
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.

EADM 626A. Issues and Trends in School Administration: School Reform. 1 Unit.
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.
EADM 626B. Issues and Trends in School Administration: Common Core Standards. 1 Unit.
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.

EADM 626C. Issues and Trends in School Administration: S.T.E.M. Programs. 1 Unit.
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.

EADM 626D. Issues and Trends in School Administration: Special Education. 1 Unit.
Current theories, research and program in school leadership with an emphasis in practice of social justice, access and student achievement.

EADM 630A. Internship Fieldwork in Educational Administration. 2 Units.
Prerequisites: consent of program coordinator
Field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option.

EADM 630B. Internship Fieldwork in Educational Administration. 2 Units.
Prerequisites: consent of program coordinator
Field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option. May be repeated to a maximum of 10 units. Formerly EADM 630.

EADM 660. Advanced Field Studies: Assessment. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program and permission of the program coordinator
The student, university faculty, and selected district personnel will complete a comprehensive assessment of the candidates utilizing multiple assessment measures and develop a plan for addressing identified needs and continued personal growth. This course is a requisite for or can be taken concurrently with EADM 664, 667, 670, 672, 675, and 678.

EADM 664. Principles of Leadership, Organizational Theory and Decision Making. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 667. Instructional Leadership for Program Development and Evaluation. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 670. School Law. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 672. Human Resource Management. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 675. School Business and Facility Management. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 678. Social Business and Facility Management. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator
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.

EADM 680. Advanced Field Studies: Evaluation. 3 Units.
Prerequisites: admission to Professional Administrative Services Credential program, EADM 660, 664, 667, 670, 672, 675 and 678 or permission of program coordinator
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.
EADM 681. Vision and Learning. 3 Units.
Prerequisites: admission to the Administrative Services Professional Credential program or consent of program coordinator. Development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community for current administrators.

EADM 682. Culture for Student Learning and Professional Growth. 3 Units.
Prerequisites: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite: EADM 681. Developing and sustaining a school culture and instructional program conducive to student learning and staff professional growth to nurture current administrators.

EADM 683. Organization and Resource Management. 3 Units.
Prerequisites: admission to the Administrative Services Professional Credential program or consent of program coordinator. Management of the organization, operations and resources for a safe, efficient and effective learning environment for current administrators.

EADM 684. Collaboration with Diverse Families and Communities. 3 Units.
Prerequisite/Corequisite: EADM 683. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. Collaboration with diverse families and community members, responding to community interests and needs, and mobilizing community resources for current administrators.

EADM 685. Leadership Capacity and Ethics. 3 Units.
Prerequisites: admission to the Administrative Services Professional Credential program or consent of program coordinator. Development of professional leadership capacity in decision-making, problem solving, change management, planning, conflict management, evaluation, and ethics for current administrators.

EADM 686. Factors of School Context. 3 Units.
Prerequisites: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite/Corequisite: EADM 685. Understanding, responding to, and influencing the political, social, economic, legal and cultural context of schools for current administrators.

EADM 692. Comprehensive Evaluation in Educational Administration. 4 Units.
Prerequisite/Corequisite: EADM 627; advancement to candidacy and permission of program coordinator. Corequisite: EADM 999. Review and preparation for the written comprehensive examination. Formerly EADM 633. Prerequisites: EADM 601, EADM 603, EADM 607, EADM 610, EADM 613, EADM 617, EADM 620, EADM 621A and EADM 621B (or EADM 630), EADM 622, and EADM 625.

EADM 699. Masters Thesis in Educational Administration. 4 Units.
Prerequisites: advancement to candidacy, EADM 601, EADM 602, EADM 604, EADM 607, EADM 610, EADM 613, EADM 616, EADM 619, EADM 622, EADM 625 and EADM 628 and permission of program coordinator. Independent graduate research conducted under the direction of two program faculty members.

EADM 730. Politics, Legislative Action and Educational Change. 4 Units.
Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. 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.

EADM 732. Fiscal Planning and Facilities Management. 5 Units.
Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. 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.

EADM 734. Advanced Human Resource Management. 5 Units.
Prerequisites: EADM 730 and EADM 732. 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.

EADM 736. Instructional Leadership and Learning Strategies. 4 Units.
Prerequisites: EADM 730 and 732. Covers standards, curriculum, instructional strategies, supervision, trends, and innovations.

EADM 738. Assessment and Evaluation. 5 Units.
Prerequisites: EADM 734 and EADM 736. Assessment and evaluation of student learning, tests and measurements, measurement theory and using data for improvement. Four hours lecture and two hours practicum.

EADM 760. Foundations and Introduction to Community College. 4 Units.
Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641. 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.
EADM 762. Trends and Issues in Community Colleges. 4 Units.
Prerequisites: admission to the Ed.D. program; COMM 522; and PA 662 or MGMT 641
Examines assessment, accountability, changing demographics, community outreach, legal issues, curricular issues, and transfer/ articulation issues. Emphasizes trends and issues, past and present.

EADM 764. Instructional Methodologies and Strategies in Community Colleges. 4 Units.
Prerequisites: EADM 760 and 762
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.

EADM 766. Community College Finances and Fiscal Resources. 5 Units.
Prerequisites: EADM 760 and 762
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.

EADM 768. Community College Leadership, Governance, Policy and Politics. 5 Units.
Prerequisites: EADM 764 and 766
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. (5 units.)

EADM 999. Comprehensive Examination in Education Administration. 0 Units.
Prerequisites: approval of prospectus by the students advisory committee, advancement to candidacy, completion of all other required courses for the M.A. or consent of department
Independent graduate research culminating in a written thesis.

Educational Counseling Courses

ECLG 222. College to Career. 4 Units.
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.

ECLG 531. Introduction to Counseling. 2 Units.
Prerequisites: approval of admission portfolio
Introduction to basic counseling practice, counseling ethics, and career pathways in counseling.

ECLG 536. Social-Emotional Development of the Gifted and Talented. 4 Units.
Social, emotional and related educational needs of gifted and talented children and youth.

ECLG 542A. Seminar in Educational Counseling. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ECLG 542B. Seminar in Educational Counseling. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ECLG 542C. Seminar in Educational Counseling. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ECLG 542D. Seminar in Educational Counseling. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ECLG 595C. Independent Study. 3 Units.
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
Special topics involving library and/or field research.

ECLG 619. Appraisal Procedures in Counseling. 4 Units.
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
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.

ECLG 632. Advanced Psychological Foundations of Education. 4 Units.
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.

ECLG 633. Human Development for Counseling. 4 Units.
Prerequisites: ECLG 531 and 632
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.
ECLG 647. Individual Testing and Case Study Techniques I. 5 Units.
Prerequisites: ECLG 619 or equivalent
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.

ECLG 648. Individual Testing and Case Study Techniques II. 5 Units.
Prerequisites: ECLG 647
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.

ECLG 649. Ecological Assessment and Case Study Techniques. 5 Units.
Prerequisites: ECLG 647 and ECLG 648
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.

ECLG 650. Career Counseling. 4 Units.
Overview of career development, career education and career counseling and guidance in schools, agencies and community settings.

ECLG 651. Professional School Counselor. 4 Units.
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.

ECLG 654. Legal and Ethical Issues in Counseling and Guidance. 4 Units.
Legal and ethical constraints and considerations in the school counseling profession.

ECLG 655. Multicultural Counseling. 4 Units.
Theory and practical applications of counseling to serve diverse groups of people in school and community settings. How counseling can contribute to social justice for people from various backgrounds such as different genders, ethnicities, races, social classes, sexual orientations, and religions.

ECLG 656. Counseling Theories. 4 Units.
Prerequisites: ECLG 531
Theories and practices of counseling; applications to educational settings and community settings.

ECLG 657A. Counseling Practicum I. 4 Units.
Prerequisites: ECLG 531, ECLG 631 or EREH 652
Supervised practice in the application of counseling skills, theories and techniques. Includes 30 hours of practica.

ECLG 657B. Advanced Counseling Practice. 4 Units.
Prerequisites: ECLG 657A with a grade of B or better
Supervised practice in counseling in a laboratory setting. Includes 30 hours of practice.

ECLG 658. Family Consultation. 4 Units.
Prerequisites: ECLG 657B
Family systems theory. Theory and methods of consultation with families. Inclusion of teachers and other professionals in the family system.

ECLG 660. Seminar in Child/Adolescent Psychopathology and Treatment. 4 Units.
Prerequisites: completion of introductory course in child development or equivalent
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.

ECLG 661. Diagnosis and Treatment Plan. 4 Units.

ECLG 662. Addictions Counseling. 4 Units.
Diagnosis of addictions and counseling of persons affected by addiction to legal and illegal substances.

ECLG 663. Gender and Sexuality. 4 Units.
Human sexuality and gender across the lifespan and counseling interventions addressing gender identity and sexual relationship issues.

ECLG 664. Crisis and Trauma Counseling. 4 Units.
Crisis and trauma theory and counseling practice for persons who have experienced trauma or crisis events.

ECLG 665. Family Violence. 4 Units.
Child abuse assessment and reporting. Spousal or partner abuse assessment and intervention strategies.

ECLG 667. Conflict Resolution. 4 Units.
Understanding and responding to conflict in relationships, schools and communities. Includes conflict coaching, mediation, and conferencing practices.

ECLG 668. Aging Death and Grief. 4 Units.
Theories and research about aging and dying. Counseling the dying and the bereaved. Includes understanding of relevant pharmacology.

ECLG 669. Psychopharmacology. 4 Units.
Understanding the purposes and effects of the main pharmaceuticals used in mental health settings.

ECLG 672. Leadership, Advocacy, and Preventive Education in Counseling. 4 Units.
Prerequisites: ECLG 657B
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.

ECLG 678. Group Counseling. 4 Units.
Prerequisites: ECLG 531, ECLG 656 and ECLG 657A or ECLG 657B
Theory and practice of group counseling in schools or community settings. Includes 30 hours of practice.
ECLG 679. Counseling Field Experience. 4 Units.
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.

ECLG 686A. School Psychology Practicum I. 4 Units.
Prerequisites: ECLG 531 or equivalent
Study and experience relative to the practice of school psychology; an emphasis is placed on assessment of students for disabilities, psycho-educational report writing, and the development of Individual Education Plans. Study of theories and techniques in interventions with parents and children. Emphasis on methodology and application of assessment, academic and social interventions, and counseling skills. Formerly ECLG 686D. Graded Credit/No Credit.

ECLG 686B. School Psychology Practicum II. 4 Units.
Prerequisites: ECLG 531 or equivalent
Study and experience relative to the practice of school psychology; an emphasis is placed on assessment of students for disabilities, psycho-educational report writing, and the development of Individual Education Plans. Study of theories and techniques in interventions with parents and children. Emphasis on methodology and application of assessment, academic and social interventions, and counseling skills. Formerly ECLG 686D. Graded Credit/No Credit.

ECLG 687. School Psychologists as Change Agents: Theory and Practice. 4 Units.
Prerequisites: pupil personnel services credential Organizational models, systems analysis, powers and change theories and strategies as applied to educational institutions. Includes 20 hours of practica.

ECLG 688. Advanced Behavioral Intervention and School Consultation. 4 Units.
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.

ECLG 689A. Seminar/Internship in School Psychology. 4 Units.
Prerequisites: ECLG 649, ECLG 660, and ECLG 687
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.

ECLG 689B. Seminar/Internship in School Psychology. 4 Units.
Prerequisites: ECLG 649, ECLG 660, and ECLG 687
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.

ECLG 689C. Seminar/Internship in School Psychology. 4 Units.
Prerequisites: ECLG 649, ECLG 660, and ECLG 687
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.

ECLG 689D. Seminar/Internship in School Psychology. 4 Units.
Prerequisites: ECLG 649, ECLG 660, and ECLG 687
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.

ECLG 693. Special Topics in School Psychology. 4 Units.
Prerequisites: ECLG 649, ECLG 660 and ECLG 687
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.

ECLG 696. Special Topics in Counselor Education. 2 Units.
Relevant issues in counselor education. May be repeated for credit as topics change.

ECLG 697. Master’s Degree Project. 0 Units.
Prerequisites: advancement to candidacy, EDUC 607, ECLG 657B, 679A, and permission of program coordinator
Research project related to counseling and guidance conducted under the direction of two program faculty members.

ECLG 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Education Courses

EDUC 201. Introduction to Tutorial Techniques. 2 Units.
Introductory course in individual and small group instruction with emphasis on lesson planning, teaching methods and evaluation for tutorial settings.

EDUC 250. Democracy and Education. 4 Units.
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.
EDUC 302. Education in American Society. 4 Units.
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.

EDUC 306. Expository Writing for Education. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit (GE=F1)
Writing related to education including documented research reports, evaluations, and analytical papers. Revision and rewriting will be required. Course fulfills the upper-division writing requirement. May not be counted for fulfilling major requirements for any degree program offered by the College of Education. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or the course requested will be cancelled. Formerly EDUC 495. Graded A, B, C/ no credit.

EDUC 310. Education and Contemporary Culture. 4 Units.
Prerequisite/Corequisite: EDUC 250
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.

EDUC 320. Diversity in Education. 4 Units.
Prerequisite/Corequisite: EDUC 250
How issues of race and ethnicity, gender, and sexual orientation have shaped American education and how they continue to do so.

EDUC 330. Education and Special Populations. 4 Units.
Prerequisite/Corequisite: EDUC 250
Special education (including landmark legislation), English language learners, correctional education, and inclusion of special populations.

EDUC 340. Social Class, Poverty, and Education. 4 Units.
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.

EDUC 350. History of Schooling. 4 Units.
Overview of the history of schooling. Includes key events and global and local social movements have shaped education in United States. Prerequisite or corequisite EDUC 250.

EDUC 360. Education for Peace and Nonviolence. 4 Units.
Exploration of the role of schooling in promoting human rights, resolving conflict, and producing safer schools and a more peaceful world. Prerequisite or corequisite EDUC 250.

EDUC 524A. Seminar in Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EDUC 524B. Seminar in Education. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EDUC 524C. Seminar in Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EDUC 524D. Seminar in Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EDUC 595A. Independent Study. 1 Unit.
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
Special topics involving library and/or field research.

EDUC 595B. Independent Study. 2 Units.
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
Special topics involving library and/or field research.

EDUC 595C. Independent Study. 3 Units.
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
Special topics involving library and/or field research.

EDUC 595D. Independent Study. 4 Units.
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
Special topics involving library and/or field research.

EDUC 600. Masters Degree. 4 Units.
Prerequisites: advancement to candidacy

EDUC 601A. Advanced Independent Study Topics in Education. 1 Unit.
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
Special topics involving application of educational procedures.
EDUC 601B. Advanced Independent Study Topics in Education. 2 Units.
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
Special topics involving application of educational procedures.

EDUC 601C. Advanced Independent Study Topics in Education. 3 Units.
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
Special topics involving application of educational procedures.

EDUC 601D. Advanced Independent Study Topics in Education. 4 Units.
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
Special topics involving application of educational procedures.

EDUC 603. Effective Communication in Education. 4 Units.
Prerequisites: EDUC 306 or equivalent
Varying theoretical approaches with an emphasis on identifying ones 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.

EDUC 605. Foundations of Education. 4 Units.
Prerequisite/Corequisite: EDUC 603
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.

EDUC 607. Introduction to Educational Research. 4 Units.
Prerequisites: EDUC 603 and 605
Introduction to the vocabulary, design, and sources of quantitative and qualitative methodologies, and program evaluation research in education. Ethical strategies for collecting, treating, and reporting data are emphasized; research reports and identifying, developing and critiquing trends in research communities. Formerly EDUC 663.

EDUC 611. Foundations of Integrative and Holistic Models of Education. 4 Units.
Prerequisites: consent of department
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.

EDUC 613. Integration and Meaning in Education. 4 Units.
Prerequisites: consent of department
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.

EDUC 615. Exploring Arts, Creativity and Sign Systems. 4 Units.
Prerequisites: consent of department
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.

EDUC 617. Exploring Integrative and Holistic Curriculum Theory. 4 Units.
Prerequisites: consent of department
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.

EDUC 619. Seminar Holistic Education. 4 Units.
Prerequisites: consent of department
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.

EDUC 620. Spiritual Perspectives in Public Education. 4 Units.
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.

EDUC 621. Assessment and Research: Holistic Perspectives. 4 Units.
Prerequisites: consent of department
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.

EDUC 630. Supportive Learning Environments for All Students. 4 Units.
Classroom and curricular differentiation strategies for diverse classroom and school learning environments. Emphasis on planning and implementing positive academic environments for all students.
EDUC 634. Motivation, Teaching and Learning. 4 Units.
Course focuses on theories, research, and concept of human motivation related to learning and teaching. Explores what motivates students to learn and examine strategies, techniques and interventions that promote and sustain learner motivation. Historical and contemporary research on motivation, teaching and learning will be reviewed, analyzed and discussed.

EDUC 694. Masters Project in Science Education. 4 Units.
Prerequisites: advancement to candidacy and consent of the graduate coordinator.

EDUC 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
EDUC 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 700. Scientific Inquiry. 4 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership
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.

EDUC 702. Foundations in Education and Leadership. 5 Units.
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.

EDUC 705. Organization and Administration of School Systems/Community Colleges. 4 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership
Examines educational institutions, leadership, organizational and administrative theory. Developing and sustaining positive relationships with boards and governance issues are emphasized.

EDUC 707. Quantitative Research Methods. 4 Units.
Prerequisites: EDUC 700 and EDUC 705
Guided practice in designing and conducting quantitative research in education. Analyzes quantitative methods, data collection and results.

EDUC 709. Diversity and Equity in Educational Administration: School Districts and Community Colleges. 4 Units.
Prerequisites: EDUC 700 and EDUC 705
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.

EDUC 712. Qualitative Research Methods. 4 Units.
Prerequisites: EDUC 707 and EDUC 709
Guided practice in designing and conducting qualitative research in education. Analyzes qualitative methods, data collection, and results.

EDUC 714. Educational Systems as Cultural and Social Systems. 4 Units.
Prerequisites: EDUC 707 and EDUC 709
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.

EDUC 718. Strategic Planning, Accountability and Change. 5 Units.
Prerequisites: EDUC 712 and EDUC 714
Principles of change, innovation, shared vision, mission and goals in accordance with the principles of strategic planning and accountability, to include the Educational and Facilities Master Plan. Four hours lecture and two hours practicum.

EDUC 720. Advanced Quantitative Research Methods. 4 Units.
Prerequisites: EDUC 707 and EDUC 716
Advanced designs and statistics commonly applied in educational research. Analysis and interpretation of data from designs using covariates (ANCOVA 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.

EDUC 722. Advanced Qualitative Research Methods. 4 Units.
Prerequisites: EDUC 707 and EDUC 716
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.
EDUC 726. Ethical Leadership and Decision Making in Education. 4 Units.
Prerequisites: EDUC 716
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.

EDUC 780A. Special Topics in Educational Leadership. 1 Unit.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 780B. Special Topics in Educational Leadership. 2 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 780C. Special Topics in Educational Leadership. 3 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 780D. Special Topics in Educational Leadership. 4 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 790. Research Seminar. 1 Unit.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
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.

EDUC 795B. Independent Study. 2 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 795C. Independent Study. 3 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 795D. Independent Study. 4 Units.
Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director
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.

EDUC 799B. Dissertation. 2 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit.

EDUC 799C. Dissertation. 3 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit.

EDUC 799D. Dissertation. 4 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit.

EDUC 799E. Dissertation. 5 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit.

EDUC 799F. Dissertation. 6 Units.
Prerequisites: admission to the Ed.D. in Educational Leadership and advancement to candidacy for the Doctoral Degree
Directed independent study. Candidates prepare their dissertations with faculty support. Must be repeated for a total of 16 units. Graded credit/no credit.

EDUC 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.
Elementary/Bilingual Education Courses

EELB 230. Introduction to Education. 4 Units.
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.

EELB 285A. Service Learning Experience I. 2 Units.
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.

EELB 285B. Service Learning Experience II. 2 Units.
Prerequisites: EELB 285A
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.

EELB 301. Growth and Development in Socio-Educational Contexts. 6 Units.
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.

EELB 310. Educational Psychology: Teaching and Learning in Diverse Classrooms. 3 Units.
Corequisites: HD 315
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.

EELB 311. Mathematics Curriculum and Methods in the Elementary School. 4 Units.
Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track Corequisites: MATH 301A
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.

EELB 312. Family, Culture and Schooling. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program
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, EELB 315 or EELB 316, EELB 317 and EELB 520B.

EELB 313. Pedagogical Foundations for English Language Learners. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program
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, EELB 315 or EELB 316, EELB 317 and EELB 520B.

EELB 315. Reading/Language Arts Curriculum and Pedagogy. 3 Units.
Prerequisites: admission to the Multiple Subject Credential Program
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, EELB 313, EELB 317, and EELB 520B.

EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy. 3 Units.
Prerequisites: admission to the Multiple Subject Credential Program
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, EELB 313, EELB 317, and EELB 520B.
EELB 317. Educational Psychology for a Diverse Society. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program
Overview of psychological principles applied to education using a variety
of theoretical perspectives from psychology to explore educational
practices, student development and characteristics, learning processes,
teaching strategies and assessment in the multicultural classroom.
Requires a minimum six-hour field component in an approved setting.
Formerly EELB 332. May be taken concurrently with EELB 312, EELB 313, EELB 315 or EELB 316, and EELB 520B.

EELB 334. Language Development and Schooling. 4 Units.
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.

EELB 335. Reading/Language Arts Curriculum and Methods in the Elementary School. 4 Units.
Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track
Corequisites: ENG 311
Emphasis on integration of linguistic concepts with appropriate strategies
for teaching emergent readers and writers of varied reading levels
and language backgrounds. Strategies include developing phonemic
awareness; systemic explicit phonics instruction; selection of appropriate
materials and assessment measures; making reading and writing
connections; supporting comprehension and vocabulary development;
and organizing classrooms for a balanced literacy program. Course
requires three hours lecture and two hours activity including observation
and participation in approved setting.

EELB 332. Curriculum and Methods for Early Childhood Education. 4 Units.
Prerequisites: EELB 301 and 312
Principles, methods and materials of instruction appropriate for young
children.

EELB 414. Science Curriculum and Methods in the Elementary School. 4 Units.
Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track
Corequisites: CHEM 304, GEOL 304 or PHYS 304
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.

EELB 422. Classroom Organization, Management and Discipline. 2 Units.
Prerequisites: admission to the Multiple Subject Credential Program and
completion of all Phase I courses
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, EELB 425 and EELB 520C and either EELB 540A or
EELB 560A. If not taken concurrently with EELB 520C and either EELB
540A or EELB 560A, then six hours of fieldwork will be required.

EELB 423. Mathematics Curriculum and Pedagogy. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program and
completion of all Phase I courses
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,
EELB 425 and EELB 520C and either EELB 540A or EELB 560A. If not
taken concurrently with EELB 520C and either EELB 540A or EELB 560A,
then six hours of fieldwork will be required.

EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond. 3 Units.
Prerequisites: admission to the Multiple Subject Credential Program and
completion of all Phase I courses
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 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, EELB 425 and EELB 520C and either
EELB 540A or EELB 560A. If not taken concurrently with EELB 520C and either EELB
540A or EELB 560A, then six hours of fieldwork will be required.

EELB 429. Reading, Writing and Literary Analysis in the Elementary. 4 Units.
Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track,
EELB 235, ENG 306, and 311
Corequisites: ENG 301, 302, 303, 304, 309 or 320
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.
EELB 430. Supervised Student Teaching in the Blended Program. 8 Units.
Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track and admission to student teaching
Corequisites: EELB 497
Teaching in elementary grades in the public schools. Graded credit/no credit.

EELB 480. Capstone Seminar. 2 Units.
Prerequisites: EELB 450A, 451 and 533 or 534
Corequisites: EELB 450B, 452 and 511
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.

EELB 512. Spanish Childrens Literature for the Bilingual Classroom. 4 Units.
Examines childrens 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.).

EELB 519. Assessment Seminar I. 2 Units.
Prerequisites: admission to the Multiple Subject Credential program
Prerequisite/Corequisite: all courses in Phase 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.

EELB 520A. Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1. 1 Unit.
Prerequisites: classified program admission, good standing in program, and EELB 313; EELB 315 or EELB 136; EELB 317 and EELB 423 with a grade of "B-" or better in each course
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit.

EELB 520B. Teaching Performance Assessment Seminar: Designing Instruction Task 2. 1 Unit.
Prerequisites: classified program admission, good standing in program, and EELB 312; EELB 313; EELB 315 or EELB 316; and EELB 317 with a grade of "B-" or better in each course
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit.

EELB 520C. Teaching Performance Assessment Seminar: Assessing Student Learning Task 3. 1 Unit.
Prerequisites: classified program admission and good standing in program, with grades "B-" or better
Corequisites: EELB 540A for student teachers and EELB 560B for intern teachers
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit.

EELB 520D. Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4. 1 Unit.
Prerequisites: classified program admission and good standing in program with grades "B-" or better
Corequisites: EELB 540B for student teachers and EELB 560C for intern teachers
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit.

EELB 529. Assessment Seminar II. 2 Units.
Prerequisite/Corequisite: 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
Corequisites: EELB 540A for student teachers or EELB 560B for intern teachers
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.

EELB 532. Science/Health Curriculum and Pedagogy. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I and II courses
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 EELB 534, EELB 520D and EELB 540B. Intern teachers may take concurrently with EELB 520C and EELB 560B. If not taken concurrently with EELB 540B or EELB 560B, then six hours of fieldwork will be required.

EELB 533. Social Studies and the Arts Curriculum Pedagogy. 4 Units.
Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I, II and III courses for intern teachers
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, EELB 520D and EELB 540B. Intern teachers may take concurrently with EELB 520D and EELB 560C. If not taken concurrently with EELB 540B or EELB 560C, then six hours of fieldwork will be required.
EELB 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy. 4 Units.
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.
Corequisites: EELB 540B or EELB 560C
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, EELB 520D and EELB 540B. Intern teachers may take concurrently with EELB 520D and EELB 560C.. If not taken concurrently with EELB 540B or EELB 560C, then six hours of fieldwork will be required.

EELB 539. Assessment Seminar III. 2 Units.
Prerequisite/Corequisite: EELB 532 and 533 or 534 for student teachers or EELB 533 or 534 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and Phase I and II for student teachers or Phase I, II and III for intern teachers.
Corequisites: EELB 540B for student teachers or EELB 560C for intern teachers
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.

EELB 540A. Supervised Student Teaching in Multiple Subject I. 6 Units.
Prerequisites: admission to supervision as a student teacher
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. Must be taken concurrently with EELB 520C. Should be taken concurrently with EELB 422, EELB 423, and EELB 425.

EELB 540B. Supervised Student Teaching in Multiple Subject II. 6 Units.
Prerequisites: EELB 422, EELB 423, EELB 425, EELB 520C and EELB 540A
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. Must be taken concurrently with EELB 520D. Should be taken concurrently with EELB 532 and EELB 533 or EELB 534.

EELB 540C. Supervised Student Teaching in Multiple Subject III. 6 Units.
Prerequisites: consent of program director
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.

EELB 540A. Seminar in Elementary/Bilingual Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EELB 542C. Seminar in Elementary/Bilingual Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EELB 542D. Seminar in Elementary/Bilingual Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

EELB 545. Teaching Science in Elementary School. 4 Units.
Prerequisites: consent of instructor
Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers.

EELB 560A. Supervised Intern Teaching in Multiple Subject I. 8 Units.
Prerequisites: admission to the intern program, completion of EELB 312, EELB 313, EELB 315 or EELB 316, and EELB 317 and admission to supervision.
Corequisites: EELB 422, EELB 423, and EELB 425
Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

EELB 560B. Supervised Intern Teaching in Multiple Subject II. 8 Units.
Prerequisites: EELB 312, EELB 313, EELB 315 or EELB 316, EELB 317, EELB 422, EELB 423, EELB 425, and EELB 560A
Corequisites: EELB 520C and EELB 532
Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

EELB 560C. Supervised Intern Teaching in Multiple Subject III. 8 Units.
Corequisites: EELB 533 or 534 and 520D
Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

EELB 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE). 2 Units.
Prerequisites: EELB 312, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and EELB 511 or ESEC 511
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.)
EELB 606. Theory and Practice in Teaching Bilingual Students I. 4 Units.
Prerequisites: consent of instructor
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.

EELB 608. Research in Bilingual/Cross-Cultural Education. 4 Units.
Survey of current measurements and research in bilingual/cross-cultural education and their applications in the classroom.

EELB 611. Spanish Childrens Literature for the Bilingual Classroom. 4 Units.
Examines childrens 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.

EELB 612. Social and Cultural Contexts for School Learning. 4 Units.
Examination of the relationship between the sociology of knowledge, social context, cultural norms and school practices with particular attention to language minority student populations.

EELB 616. Advanced Reading/Language Arts (Primary Language) Curriculum and Pedagogy. 4 Units.
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 writers literacy/biliteracy development across time. Fulfills credential requirement for EELB 316. Formerly EELB 646.

EELB 618. Social and Cultural Contexts for Bilingual Teaching and Learning. 4 Units.
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.

EELB 619. Cognition, Language Acquisition and Biliteracy. 4 Units.
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.

EELB 625. Curriculum and Materials for Bilingual and ESL Classrooms. 4 Units.
Provides participants with advanced knowledge of curricular and instructional approaches used in effective bilingual and English as a Second Language (ESL) programs.

EELB 626. Literacy and Bilingual Development. 4 Units.
Examines sociopsycholinguistic, sociocultural, psychogenetic and sociopolitical traditions and how they relate to the literacy development of students in bilingual and mainstream programs. C871.

EELB 627. Innovations in Bilingual Education. 4 Units.
Examines the theoretical bases of innovations in curriculum, instruction and school reform to meet the needs of students in bilingual education.

EELB 628. Bilingualism and the Social Construction of Mind. 4 Units.
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.

EELB 629A. Special Topics in Elementary Education: Primary Language Literacy. 4 Units.
Relevant issues, techniques, and topics in elementary education.

EELB 639. Advanced Pedagogical Foundations for English Language Learners. 4 Units.
Prerequisites: admission into the BCLAD Credential and M.A. in Education: Language, Literacy and Culture (Primary Language) Option Comprehensive study of various theories, principles, and instructional practices designed to develop the linguistic, social and academic proficiency of English language learners. Key issues and concepts to be implemented in dual language classrooms include: linguistic development, first and second language acquisition, and the relationship between first language literacy and second language development. Relevant state and federal laws pertaining to the education of English learners, the impact of these mandates on student placement and school site instructional programs, the importance of students families, cultural backgrounds and experiences and how these relate to successful school experiences for English learners are examined. Fulfills the credential requirement for EELB 313. Formerly EELB 654.

EELB 640. The Education of K-12 English Language Learners. 4 Units.
EELB 643. Advanced Social Studies and the Arts (Primary Language) Curriculum and Pedagogy. 4 Units.
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 intern teaching. Fulfills credential requirement for EELB 534. Formerly EELB 648.

EELB 649. Advanced Literacy and Second Language Acquisition for the Intermediate Reader and Beyond. 4 Units.
Prerequisites: EELB 616
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.

EELB 656. Internship Seminar IV: Ethics and Legal Aspects of Teaching-Capstone. 4 Units.
Prerequisites: admission to the Multiple Subject BCLAD Credential program
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.

EELB 680. Practicum in Teaching English as a Second Language. 4 Units.
Prerequisites: (for CLAD certificate program only) EELB 312, or EESL 536, or ESEC 321; EELB 333 and 511 or ESEC 313 and 511. May be taken concurrently with ESEC 605
Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Formerly EELB and ESEC 680A.

EELB 697. Implementing Educational Change. 4 Units.
Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units
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.)

EELB 999A. Comprehensive Examination: Bilingual. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

EELB 999C. Comprehensive Examination: ESL. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Graded credit/no credit.

Gender and Sexuality Studies Courses

GSS 100. Introduction to Women’s Studies. 4 Units.
(GE=D4)
An introduction to the growing body of women’s studies scholarship. Includes feminist theories of gender stratification and introduces women’s issues, experiences and achievements in a variety of fields. Formerly WSTD 100 and 200.

GSS 101. Introduction to Masculinity Studies. 4 Units.
(GE=D4)
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.

GSS 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies. 4 Units.
(GE=D4)
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.
GSS 300. Feminist Research Methods. 4 Units.
Development and implementation of research (quantitative or qualitative) informed by feminist theory.

GSS 336. Women Writers. 4 Units.
Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues of women’s lives. (Offered as ENG and GSS 336. Students may not receive credit for both.) GSS 336 was formerly WSTD 336.

GSS 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People. 4 Units.
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. (Offered as GSS and ECON 357, students may not receive credit for both.) GSS 357 was formerly WSTD 357.

GSS 390. Topics in Gender and Sexuality Studies. 4 Units.
Examination of selected topics of current interest in gender and sexuality studies. May be repeated for credit as topics change. Formerly WSTD 390.

GSS 420. Feminist Theory. 4 Units.
Survey of feminist theory. Formerly WSTD 420.

GSS 425. Women as Agents of Social Change. 4 Units.
Prerequisites: GSS 100 or consent of instructor. Formerly WSTD 425 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.

GSS 450. Queer Theory. 4 Units.
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.

GSS 575B. Internship in Gender and Sexuality Programs and Services. 2 Units.
Prerequisites: consent of the Gender and Sexuality Studies Program Committee coordinator. Formerly WSTD 575 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.

GSS 575C. Internship in Gender and Sexuality Programs and Services. 3 Units.
Prerequisites: consent of the Gender and Sexuality Studies Program Committee coordinator. Formerly WSTD 575 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.

GSS 575D. Internship in Gender and Sexuality Programs and Services. 4 Units.
Prerequisites: consent of the Gender and Sexuality Studies Program Committee coordinator. Formerly WSTD 575 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.

GSS 595B. Independent Study. 2 Units.
Prerequisites: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator. Formerly WSTD 595 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.

GSS 595C. Independent Study. 3 Units.
Prerequisites: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator. Formerly WSTD 595 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.

GSS 595D. Independent Study. 4 Units.
Prerequisites: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator. Formerly WSTD 595 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.

GSS 595E. Independent Study. 5 Units.
Prerequisites: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator. Formerly WSTD 595 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.

Instructional Technology Courses

ETEC 500. Foundations in Instructional Education. 4 Units.
Introduction to instructional technology and its foundations. Includes electronic media, operating systems, networks and multimedia in educational and corporate environments. This is a prerequisite for all other ETEC courses; an IT orientation with program faculty/advisors will be part of the first week of the course. Formerly ETEC 547.
ETEC 501. Foundations of e-Learning. 4 Units.
Introduction to theoretical and practical foundations of e-Learning. Explorations of history, trends, current issues, and practices of e-Learning.

ETEC 537. Computer Based Technology in Education I. 4 Units.
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 CSE140 or CSE 141 in lieu of ETEC 537. One hour lecture and two hours laboratory. Meets Level I competencies for the preliminary credential.

ETEC 541. E-Learning Design and Development. 4 Units.
Examination and application of e-Learning design and development principles and practices.

ETEC 542A. Seminar in Instructional Technology. 1 Unit.
Prerequisites: graduate standing or consent of instructor
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.

ETEC 542B. Seminar in Instructional Technology. 2 Units.
Prerequisites: graduate standing or consent of instructor
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.

ETEC 542C. Seminar in Instructional Technology. 3 Units.
Prerequisites: graduate standing or consent of instructor
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.

ETEC 542D. Seminar in Instructional Technology. 4 Units.
Prerequisites: graduate standing or consent of instructor
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.

ETEC 543. Technology and Learning I. 4 Units.
Prerequisites: ETEC 500
Explores connections between technology and the teaching and learning process through current research in instructional technology and learning theories.

ETEC 544. Design and Development of Instructional Materials I. 4 Units.
Prerequisites: ETEC 500
Examination of various models of instructional design and procedures used in the production of instructional materials.

ETEC 546. Computer Based Technology in Education II. 4 Units.
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.

ETEC 614. Needs Assessment: Issues and Techniques. 4 Units.
Prerequisites: ETEC 500, 543, and 544 or consent of instructor
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.

ETEC 617. Instructional Development and Change Process. 4 Units.
Prerequisites: ETEC 500, 544, and 614 or consent of instructor
Theories and methods for evaluating each stage of instructional product development processes and change theory relate to adoption of instructional products. Formerly ETEC 611.

ETEC 621. Reading/Language Arts with Technology Integrations. 4 Units.
Prerequisites: ETEC 546 or equivalent
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.

ETEC 623. Technology for Educational Leaders. 4 Units.
Prerequisites: ETEC 500 or consent of instructor
Assisting educational leaders in developing the knowledge and skills needed to apply computer technology to educational settings.

ETEC 624. Website Design and Development. 4 Units.
Prerequisites: ETEC 500. Formerly a topic under ETEC 676D
Planning, designing and developing dynamic websites for learning.

ETEC 625. Interactive Animation Design and Development. 4 Units.
Prerequisites: ETEC 500
Planning, designing, and developing vector graphics, animation and interactive multimedia for learning. Formerly a topic under ETEC 676D.

ETEC 634. Information Systems in Education. 4 Units.
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.

ETEC 643. Technology and Learning II. 4 Units.
Prerequisites: EDUC 607, ETEC 500 and 543
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.
ETEC 644. Design and Development of Instructional Materials II. 4 Units.
Prerequisites: ETEC 500 and ETEC 544
Advanced application of instructional design models and procedures to produce instructional materials for the M.A. project.

ETEC 648. E-Learning Delivery and Evaluation. 4 Units.
Examination of various models, strategies, and issues of e-Learning delivery. Exploration of assessment on student learning and e-Learning effectiveness.

ETEC 674. E-Learning Technology and Media. 4 Units.
Examination of current technology tools and instructional methods for effective instruction on e-Learning.

ETEC 676B. Advanced Topics in Instructional Technology. 2 Units.
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.

ETEC 676C. Advanced Topics in Instructional Technology. 3 Units.
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.

ETEC 676D. Advanced Topics in Instructional Technology. 4 Units.
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.

ETEC 676E. Advanced Topics in Instructional Technology. 5 Units.
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.

ETEC 676F. Advanced Topics in Instructional Technology. 6 Units.
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.

ETEC 676G. Advanced Topics in Instructional Technology. 7 Units.
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.

ETEC 692. Practicum in Educational Technology. 4 Units.
Prerequisites: ETEC 500 or consent of instructor
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.

ETEC 699. Masters Degree Project. 4 Units.
Assisting Instructional Technology Masters students in completing their M.A. project.

ETEC 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Reading Education Courses
ERDG 542A. Seminar in Reading Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ERDG 542B. Seminar in Reading Education. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ERDG 542C. Seminar in Reading Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ERDG 542D. Seminar in Reading Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ERDG 619. Literacy Assessment and Evaluation. 4 Units.
Investigation of literacy assessments, strategies for their use in literacy instruction and early intervention. Research and evaluation for literacy instruction. Formerly ERDG 640.

ERDG 626. Foundations of Literacy. 4 Units.
Survey of theories of literacy development and learning, methods of literacy instruction and assessment. Formerly ERDG 620.

ERDG 627. Literacy and Language Processes. 4 Units.
Methods for integrating the language development processes that underlie effective literacy curriculum. Formerly ERDG 658.
ERDG 629. Special Topics in Literacy. 2 Units.
Prerequisites: ERDG 626
Relevant issues, techniques and topics in literacy. May be repeated for credit as topics change.

ERDG 633. Multi-modal Meaning Systems in Literacy. 4 Units.
Prerequisites: ERDG 626
How various meaning systems, including the arts, affect literacy learning.

ERDG 636. Critical Approaches to a Culture of Literacy. 4 Units.
Prerequisites: ERDG 626
Exploration of concepts of diversity and culture as they affect literacy learning. Using multicultural literature in the literacy curriculum. Understanding multiple literacies, genres, and digital modalities as they affect the literacy curriculum. Formerly ERDG 642.

ERDG 637. Basic Materials and approaches to Literacy. 4 Units.
Prerequisites: ERDG 627
Investigating, creating and making critical judgments about curriculum approaches and materials, including software and digital resources, appropriate to different theoretical perspectives. Formerly ERDG 622.

ERDG 639. Practicum in Reading and Literacy. 4 Units.
Prerequisites: ERDG 619
Supervised experience applying reading and literacy instructional strategies; implementing, analyzing and interpreting diagnostic assessments; planning for and delivering tutorial and intervention. Formerly ERDG 625.

ERDG 641. Multicultural Perspectives and Issues of Literacy. 4 Units.
Prerequisites: ERDG 626
Understanding multicultural perspectives and issues within the contexts of literacy with diverse populations.

ERDG 646. Socio-psycholinguistics and Literacy. 4 Units.
Prerequisites: ERDG 626, 636, 637, 639, 647, 649
Social and linguistic processes of literacy learning and the implications for instruction. Formerly ERDG 624.

ERDG 647. Curriculum Perspectives in Literacy. 4 Units.
Prerequisites: ERDG 627
Examination of theoretical approaches that affect literacy curriculum. Formerly ERDG 631. Meets graduate entrance writing requirement for the M.A.

ERDG 649. Assessment and Intervention in PreK-12 Literacy. 4 Units.
Prerequisites: ERDG 619
Strategies for literacy assessment, assessment design, and intervention in Pre-K through 12th grade classrooms. Advanced clinical experience with assessment. Meeting the literacy needs of all learners. Formerly ERDG 632.

ERDG 656. Contemporary Issues in Literacy. 4 Units.
Prerequisites: ERDG 626
Advanced critical and contemporary perspectives affecting literacy and literacy education for grades PreK-12. Advanced professional competencies for the literacy leader and educator. Formerly ERDG 643.

ERDG 657. Leadership Roles in Reading and Literacy. 4 Units.
Prerequisites: ERDG 626, 627, 619, 636, 637, 647, and consent of coordinator
Investigation of leadership roles in schools and districts. Responsibilities of a reading and literacy specialist. Includes program planning and evaluation, leadership skills, knowledge of standards-based education, responding to state mandates, analyzing and applying research, meeting the needs of all students. Formerly ERDG 630.

ERDG 659. Field Work for the Reading and Literacy Specialists. 4 Units.
Prerequisites: ERDG 626, ERDG 627, ERDG 619, ERDG 636, ERDG 637, ERDG 639, ERDG 647, ERDG 649, ERDG 657 and consent of the coordinator
Field experiences including demonstration of leadership roles in curriculum planning, inservice presentations and professional development. Graded credit/no credit. Formerly ERDG 679.

ERDG 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Rehabilitation Counseling Courses
EREH 542A. Seminar in Rehabilitation Counseling. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with the consent of the instructor.

EREH 542B. Seminar in Rehabilitation Counseling. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with the consent of the instructor.

EREH 542C. Seminar in Rehabilitation Counseling. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with the consent of the instructor.

EREH 542D. Seminar in Rehabilitation Counseling. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with the consent of the instructor.
EREH 610. Research and Assessment in Rehabilitation. 4 Units.
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.

EREH 615. Introduction to Rehabilitation Counseling. 4 Units.
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.

EREH 616A. Multiple Aspects of Disability: Medical. 4 Units.
Orientation to community resources providing services to disabled persons. Multiple aspects of disabilities. Implications of disabilities for vocational adjustments and rehabilitation processes.

EREH 616B. Multiple Aspects of Disability: Vocational. 4 Units.
Orientation to community resources providing services to disabled persons. Multiple aspects of disabilities. Implications of disabilities for vocational adjustments and rehabilitation processes.

EREH 617. Vocational Assessment and Development. 4 Units.
Prerequisites: EREH 615, EREH 616A and EREH 616B or consent of instructor
Survey of methods of vocational assessment of disabled persons. Vocational development theories, occupational and career information systems and psychology of work.

EREH 618. Applied Job Placement. 4 Units.
Prerequisites: EREH 615, EREH 616A, EREH 616B and EREH 617 or consent of instructor
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.

EREH 649. Organizational Development of Rehabilitation Services. 4 Units.
Prerequisites: EREH 615, EREH 616A, EREH 616B, EREH 617 and EREH 618 or consent of instructor
Various types of training, administration, developmental and job placement programs used in industry, public and private rehabilitation agencies and insurance companies.

EREH 652. Dynamics of Human Behavior. 4 Units.
Theories of learning and human growth and development using lifespan approach from a rehabilitation counseling perspective. Includes effects of racial, lifestyle, and sex stereotyping in the community. Formerly ECLG 652.

EREH 655. Multicultural Counseling in Rehabilitation. 4 Units.
Theory 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.

EREH 656. Counseling Theories and Techniques in Rehabilitation. 4 Units.
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.

EREH 657. Counseling Practicum in Rehabilitation. 4 Units.
Prerequisites: EREH 615, 616A, and 656 or permission of the program coordinator
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.

EREH 666. Practicum in Rehabilitation Counseling. 4 Units.
Prerequisites: ECLG 678 or consent of instructor
Supervised practice in individual rehabilitation counseling in a laboratory setting.

EREH 672. Seminar Topics in Rehabilitation Counseling. 4 Units.
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.

EREH 678. Theory and Practice of Group Counseling in Rehabilitation. 4 Units.
Prerequisites: EREH 615, 616A, 656 and 657 or permission of program coordinator
Theories and techniques of group counseling in rehabilitation settings with individuals with disabilities. May not be taken for credit by students who have received credit for ECLG 678.

EREH 679. Fieldwork in Rehabilitation Counseling. 4 Units.
Prerequisites: consent of program coordinator
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.

EREH 695. Certified Rehabilitation Counselor Examination Preparation. 4 Units.
Prerequisites: completion of 48 units in the program and/or consent of the program coordinator
Preparation for the Certified Rehabilitation Counselor Examination. Graded credit/no credit.
EREH 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing.
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

School Business Management Courses
ESBM 311. School Business Management. 4 Units.
Analysis of various approaches to school business administration, current trends, use of technology 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. Formerly EADM 511.

ESBM 312. School Finance and Budgeting. 4 Units.
Legal considerations in finance and budgeting, evaluation of California school finance program, fiscal relationship to county, state and federal agencies, budget control, school revenues and expenditures and budgetary procedures and processes and risk management. Formerly EADM 512.

ESBM 313. School Accounting and Fiscal Operations. 4 Units.
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. Formerly EADM 513.

ESBM 314. Business Support and Service Operations; Purchasing Warehousing and Inventory. 2 Units.
Purchasing, warehousing, logistics and inventory in the educational setting.

ESBM 315. Facilities Planning, Construction and Risk Management. 2 Units.
School facility planning and construction in the educational setting.

ESBM 316. School Maintenance, Operations and Transportation. 2 Units.
Maintenance, operations and transportation in the educational setting.

ESBM 317. Legal Aspects of Classified Personnel Administration. 4 Units.
Current laws and court decisions affecting public school education with a focus on classified personnel administration and laws of California. Formerly EADM 519.

ESBM 318. Classified Personnel Administration and Supervision. 4 Units.
Recruitment, selection, induction, training, evaluation and contract negotiations involving classified employees under merit and non-merit systems. Formerly EADM 525.

ESBM 320. Fieldwork in School Business Management. 2 Units.
Prerequisites: ESBM 311, 312, 313, 314, 315, 316, 317, 318
Practicum experience at the district level that allows the candidate to observe and learn multiple responsibilities of the Chief Business Official.

Sci, Tech, Engin, Math Edu Courses
ESTM 510. Perspectives of STEM Education. 4 Units.
Overview of philosophy, perspectives, and standards of Science, Technology, Engineering, and Mathematics (STEM) education that contribute to an integrated view of STEM education.

ESTM 511. Technology and Engineering Design in STEM Education. 4 Units.
Prerequisites: ESTM 510 or consent of instructor
Examination of the technology and engineering design process models that result in effective Science, Technology, Engineering and Mathematics (STEM) Education.

ESTM 512. Foundations of Research in STEM Education. 4 Units.
Prerequisites: ESTM 510 and 511 or consent of program coordinator
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.

ESTM 514. STEM Education: Technology Tools. 4 Units.
Prerequisites: ESTM 510
Introduction to various technology tools useful for use in STEM education. (4 units.

ESTM 535. STEM Education: Exploration of Technology. 4 Units.
Prerequisites: ESTM 510 or consent of coordinator
Use of technology and technological systems for the understanding of the relationship between natural and human-made world.

ESTM 548. STEM Education: Green Technology. 4 Units.
Prerequisites: ESTM 510 or consent of instructor
Green technology with an emphasis in wind turbines, hydroelectric power, bio-fuels, environmental monitoring solar power, fuel cells, green construction, other related technologies and career paths.

ESTM 613. Assessment in Stem Education. 4 Units.
Prerequisites: ESTM 510 and 680 or consent of program coordinator
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.

ESTM 623. Teaching Physical Science in STEM Education. 4 Units.
Examine, develop, and apply physical science and learning reflected through STEM Education.
ESTM 624. Teaching Elementary Mathematics in STEM Education. 4 Units.
Prerequisites: ESTM 510, ESTM 511, MATH 115 or equivalent, MATH 301A, MATH 301B, MATH 301C, and MATH 308 or consent of program coordinator
Advanced models for mathematics teaching and learning in elementary schools, including how students learn mathematics, and technology and resources to facilitate mathematics learning.

ESTM 625. Teaching Algebra in STEM Education. 4 Units.
Prerequisites: ESTM 510, ESTM 511, and ESTM 624 or consent of program coordinator
Topics building on college algebra courses, methods of teaching algebraic skills, procedures and concepts, and technology and resources to facilitate algebra learning.

ESTM 626. Teaching Geometry in STEM Education. 4 Units.
Prerequisites: ESTM 510, ESTM 511, and ESTM 624 or consent of program coordinator
Topics in Euclidean and non-Euclidean geometry. Technology and resources to facilitate geometry learning and fostering geometric thinking among K-8 students.

ESTM 628. Integrating Mathematics and Science in the STEM Classroom. 4 Units.
Prerequisites: ESTM 510, ESTM 511, ESTM 624, ESTM 625, and ESTM 626 or consent of program coordinator
Integration of mathematics and science concepts using Science, Technology, Engineering, and Mathematics (STEM) education as a template for developing instruction and curriculum.

ESTM 634. Advanced Research in STEM Education. 4 Units.
Prerequisites: ESTM 510 or consent of the instructor
Focus on advanced research and implications on STEM Education.

ESTM 644. Inquiry in STEM Education. 4 Units.
Examine, develop and apply strategies for inquiry teaching and learning in STEM Education.

ESTM 647. Teaching Earth/Space Science in STEM Education. 4 Units.
Examine develop and apply earth science and space science teaching and learning reflected through STEM Education.

ESTM 648. Teaching Life Science in STEM Education. 4 Units.
Examine, develop and apply life science teaching and learning reflected through STEM Education.

ESTM 680. STEM Education: Integration Seminar I. 4 Units.
Prerequisites: ESTM 510 or consent of program coordinator
Interdisciplinary discussion of Science, Technology, Engineering, and Mathematics (STEM) education topics and issues, presentation of STEM projects.

ESTM 681. STEM Education: Integration Seminar II. 4 Units.
Prerequisites: ESTM 510 and ESTM 680 or consent of program coordinator
Leadership development, utilizing a cross-disciplinary approach in Science, Technology, Engineering, and Mathematics (STEM) education requiring presentations and leading discussions in STEM related projects.

ESTM 690. STEM Education: Advanced Research. 4 Units.
Prerequisites: ESTM 510, 511, and 512 or consent of program coordinator
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. (4 units).

ESTM 692. STEM Education: Service Learning Fieldwork. 4 Units.
Prerequisites: ESTM 613 or consent of program coordinator
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.

ESTM 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
ESTM 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 699. STEM Education: Master’s Thesis/Project. 4 Units.
Prerequisites: ESTM 690, advancement to candidacy, approval of thesis/project by the student’s advisory committee
Independent graduate research or projects conducted under the direction of thesis or project committee.

ESTM 999. STEM Education: Comprehensive Examination. 0 Units.
Prerequisites: ESTM 680, completion of course work in the master’s program, advanced to candidacy, approval of the department, and in good academic standing
Corequisites: ESTM 681
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.

Science Education Courses
EDSC 623. Teaching Physical Science in Stem Education. 4 Units.
Examine, develop and apply physical science learning in inquiry-based and problem-based activities that reflect perspectives of STEM Education.

EDSC 634. Research in Mathematics and Science Education. 4 Units.
Focus on current research in mathematics and science education.
EDSC 643. Assessment in the Science Classroom. 4 Units.
Assessment techniques in science education including the development of assessment tools to obtain reliable and useful information about student achievement in science.

EDSC 644. Inquiry in the Mathematics and Science Classroom. 4 Units.
Introduction to inquiry teaching and learning in mathematics and science. Focuses on the design of classroom learning experiences to support mathematical and scientific investigation, and the use of appropriate classroom teaching and learning strategies, materials and assessment to guide mathematics and scientific investigation.

EDSC 647. Teaching Earth/Space Science in Stem Education. 4 Units.
Examine, develop and apply earth science and space science learning in inquiry-based and problem-based activities that reflect perspectives of STEM Education.

EDSC 648. Teaching Life Science in Stem Education. 4 Units.
Examine, develop and apply life science learning in inquiry-based and problem-based activities that reflect perspectives of STEM Education.

EDSC 699. Masters Degree Project. 4 Units.
Prerequisites: advancement to candidacy Development and completion of masters thesis/project.

EDSC 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, completion of course work in the program and in good academic standing 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.

Secondary Education Courses

ESEC 200. Introduction to Careers in Secondary Education. 2 Units.
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.

ESEC 333. Curriculum and Instruction for a Diverse Society. 4 Units.
Prerequisite/Corequisite: ESEC 321. (For CLAD Certificate candidates only: EESL 536 may be substituted for ESEC 321
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.)

ESEC 405. Introduction to Secondary School Culture. 4 Units.
Prerequisites: admission to the program
Examines the importance of students as the center of school culture. Analyzes a broad range of issues and theories that serve as the foundation to the profession of teaching in a diverse society.

ESEC 407. Secondary School Teaching. 4 Units.
Prerequisites: admission to the program
Comprehensive and balanced view of teaching and all its complexities.

ESEC 410. Adolescent Development and Learning. 4 Units.
Prerequisites: admission to the program
In-depth understanding of the developmental characteristics of early, middle and late adolescence as applicable to teaching in the secondary school settings and teaching.

ESEC 413. Language Interaction in the Classroom. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director
Examines the philosophy, design, goals and characteristics of school-based organizational structures designed to meet needs of English language learners (ELLs).

ESEC 417. Educational Psychology: Instructional Theory, Assessment and Classroom Management. 4 Units.
Prerequisites: knowledge of the Single Subject Program or consent of program director
Examines psychological principles applied to instructional theory and practice. Develops skills and classroom management for the multicultural, single subject classroom.

ESEC 419. Literacy Across the Curriculum. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director
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.
ESEC 502. Special Topics for Undergraduates in Secondary Education. 2 Units.
Issues and techniques in selected topics current in secondary education. This course is designed for the Integrated Teaching Track students. Senior status in the degree program is required.

ESEC 506E. Curriculum and Instruction in the Content Areas: English. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 506F. Curriculum and Instruction in the Content Areas: Foreign Language. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 506L. Curriculum and Instruction in the Content Areas: Life and Physical Science. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 506M. Curriculum and Instruction in the Content Areas: Mathematics. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 506P. Curriculum and Instruction in the Content Areas: Physical Education. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 506S. Curriculum and Instruction in the Content Areas: Social Sciences. 4 Units.
Prerequisites: admission and good standing in the program or consent of program director. Formerly ESEC 505 and ESEC 508
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. Reviews and reflects on application of methodologies and strategies through micro-teaching.

ESEC 510. Teaching English as a Second Language in Secondary Schools. 4 Units.
Prerequisites: ESEC 321 and 333
Offers a broad overview of approaches and methods used in language teaching, but will focus specifically on practices that can support the development of English language proficiencies needed for success in secondary schools.

ESEC 511. Theory and Practice for English Language Development (ELD). 4 Units.
Prerequisites: EELB 312, EESL 536 or ESEC 321; and EELB 313 or ESEC 333
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.

ESEC 512. Assessment Seminar: Designing Instruction. 2 Units.
Prerequisites: admission and good standing in the program or consent of program director
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.

ESEC 513. Assessment Seminar: Assessment Learning. 2 Units.
Prerequisites: admission and good standing in the program as well as concurrent enrollment in Student Teaching or Internship Teaching Supervision
Teaching Performance Assessment Task 3 - Assessing Learning which consists of assessment of Teaching Performance Expectations 3, 5, 7, 8, 9, and 13. Graded Credit/no credit.

ESEC 514. Assessment Seminar: Culminating Teaching Experience. 2 Units.
Prerequisites: admission and good standing in the program
Corequisites: enrollment in Student Teaching or Internship Teaching Supervision
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.

ESEC 515. Issues and Trends in Secondary Education. 2 Units.
Prerequisites: consent of advisor
Examination of issues and trends in secondary education. May be repeated with consent of advisor.
ESEC 520A. Teaching Performance Assessment: Subject Specific Task 1. 1 Unit.
Prerequisites: admission, good standing in the program and have successfully completed ESEC 407, ESEC 410, and ESEC 413 with a grade of "B" or better
Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Graded credit/no credit.

ESEC 520B. Teaching Performance Assessments: Designing Instruction Task 2. 1 Unit.
Prerequisite/Corequisite: ESEC 417, ESEC 506, ESEC 550A or ESEC 555 with a "B" or better. Corequisite: ESEC 550B or ESEC 570B Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Graded credit/no credit.

ESEC 520C. Teacher Performance Assessments Assessing Learners Task 3. 1 Unit.
Prerequisite/Corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or ESEC 570C Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Graded credit/no credit.

ESEC 520D. Teacher Performance Assessment Culminating Teaching Experiences Task 4. 1 Unit.
Prerequisite/Corequisite: ESEC 419 with a "B" or better. Corequisite: ESEC 550C or ESEC 570C Seminar focused on candidate proficiency for Teaching Performance Expectations. Graded credit/no credit. Graded credit/no credit.

ESEC 523. Mainstreaming Exceptional Students in the Secondary Classroom. 2 Units.
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.

ESEC 542A. Seminar in Secondary Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESEC 542B. Seminar in Secondary Education. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESEC 542C. Seminar in Secondary Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESEC 542D. Seminar in Secondary Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESEC 545. Adolescents Literacy Tutoring. 4 Units.
Prerequisites: consent of instructor
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.

ESEC 550A. Student Teaching Experience. 2 Units.
Prerequisites: must be enrolled in a single subject program or consent of program director
Full-time teaching in a single subject setting at a public school. Graded credit/no credit. 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).

ESEC 550B. Student Teaching II. 4 Units.
Prerequisites: successful completion of ESEC 550A
Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

ESEC 550C. Student Teaching III. 8 Units.
Prerequisites: successful completion of ESEC 550B
Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

ESEC 555. Internship Seminar I. 2 Units.
Seminar for interns, focusing on knowledge, skills and attitudes required for a first year teacher. Graded credit/no credit.

ESEC 556. Internship Seminar II. 2 Units.
Seminar for Secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit.

ESEC 560. Study Skills for Secondary School. 4 Units.
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.

ESEC 570A. Intern Supervision I. 6 Units.
Prerequisites: enrollment in Single Subject Program
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

ESEC 570B. Intern Supervision II. 6 Units.
Prerequisites: satisfactory completion of ESEC 570A and consent of program coordinator
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.
ESEC 570C. Intern Supervision III. 6 Units.
Prerequisites: satisfactory completion of ESEC 570B
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

ESEC 570D. Intern Supervision IV. 6 Units.
Prerequisites: satisfactory completion of ESEC 570C
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

ESEC 570E. Intern Supervision V. 6 Units.
Prerequisites: satisfactory completion of ESEC 570D
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

ESEC 570F. Intern Supervision VI. 6 Units.
Prerequisites: satisfactory completion of ESEC 570E
Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

ESEC 602. Special Topics in Secondary Education. 2 Units.
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.

ESEC 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE). 2 Units.
Prerequisites: EELB 312, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and EELB 511 or ESEC 511
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.).

ESEC 622. Practicum in Middle Grade Education. 4 Units.
Prerequisites: ESEC 443, 617 and 621
Practicum for middle grade philosophies, objectives, and functions. Formerly ESEC 522.

ESEC 623. Foundations of Middle School Education. 4 Units.
History and philosophical foundations of middle school education; examination of theories and research related to middle school students, curriculum, programs and practices.

ESEC 666. Techniques and Applications of Mathematics Education. 4 Units.
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.

ESEC 672. Educational Assessment in Mathematics Teaching. 4 Units.
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.

ESEC 678. Mathematics Clinic for Secondary Education. 4 Units.
Administration of diagnostic instruments and assessment procedures to secondary school students followed by prescription and initiation of remedial instruction to strengthen mathematics skills.

ESEC 680. Practicum in Teaching English as a Second Language. 4 Units.
Prerequisites: (for M.A. in Education, Teaching English as a Second Language Option) consent of advisor; (for CLAD certificate program only) EELB 312, or EESL 536, or ESEC 321; EELB 313 and 511 or ESEC 333 and 511. May be taken concurrently with ESEC 605
Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies.

ESEC 697. Implementing Educational Change. 4 Units.
Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units
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.).

Special Education Courses
ESPE 350. Introduction to Special Populations for General Education Teachers. 4 Units.
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.

ESPE 530. Introduction to Special Education. 4 Units.
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.

ESPE 531. Methods and Procedures in Special Education. 4 Units.
Prerequisite/Corequisite: ESPE 530
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.
ESPE 538. Introduction to Teaching the Gifted and Talented. 4 Units.
Prerequisites: consent of instructor
Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Eight hours of class and activities weekly.

ESPE 539. Programs for Teaching the Gifted and Talented. 4 Units.
Prerequisites: ESPE 538 and consent of instructor
Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials and program assessment.

ESPE 542A. Seminar in Special Education. 1 Unit.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESPE 542B. Seminar in Special Education. 2 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESPE 542C. Seminar in Special Education. 3 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESPE 542D. Seminar in Special Education. 4 Units.
Prerequisites: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor.

ESPE 610. Introduction to Autism Spectrum Disorders. 4 Units.
Prerequisites: ESPE 530 and ESPE 531 and admission to the Special Education program; or admission to the Autism Added Authorization program and concurrent enrollment in ESPE 623A

ESPE 611. Assessment Methods in Special Education. 4 Units.
Prerequisites: ESPE 530 and ESPE 531 and admission to the Special Education Program
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.

ESPE 612. Supportive Learning Environments for Students with Disabilities. 4 Units.
Prerequisites: ESPE 530 and ESPE 531; admission to the Special Education Program
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 required. Formerly ESPE 624.

ESPE 613. Seminar in Literacy Learning for Students with Disabilities. 4 Units.
Prerequisites: ESPE 530, ESPE 531, and ESPE 611, and admission to the Special Education program
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.

ESPE 614. Curriculum and Methods for Diverse Learners with Disabilities. 4 Units.
Prerequisites: ESPE 530, ESPE 531, and ESPE 611, and admission to the Special Education program
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.

ESPE 615. Seminar on Language and Literacy in Early Childhood Special Education. 4 Units.
Prerequisites: ESPE 530, ESPE 531 and admission to the Special Education Program
An intensive study of early language and literacy skills including English language development, assessment, instruction, and curriculum guidelines as related to infants, toddlers, and preschool age children with disabilities. Formerly ESPE 515.

ESPE 620A. Supervised Student Teaching in Special Education I: Mild/Moderate Disabilities. 8 Units.
Prerequisites: classified admission to the Special Education credential program. Formerly ESPE 609A
Prerequisite/Corequisite: ESPE 642 (for Preliminary credential candidates); ESPE 530, ESPE 531, ESPE 611 and ESPE 612, EELB 315 or EELB 423 (for Level I credential candidates)
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.

ESPE 620B. Supervised Student Teaching in Special Education I: Moderate/Severe Disabilities. 8 Units.
Prerequisites: classified admission to the Special Education credential program. Formerly ESPE 609C
Prerequisite/Corequisite: ESPE 662 (for Preliminary credential candidates); ESPE 530, ESPE 531, ESPE 611 and ESPE 612, EELB 315 or EELB 423 (for Level I credential candidates)
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.
ESPE 620C. Supervised Student Teaching in Special Education I: Early Childhood Special Education. 8 Units.
Prerequisites: classified admission to the Special Education credential program. Formerly ESPE 609D
Prerequisite/Corequisite: ESPE 672
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.

ESPE 621A. Supervised Student Teaching in Special Education II: Mild/Moderate. 8 Units.
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)
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. Formerly ESPE 679A.

ESPE 621B. Supervised Student Teaching in Special Education II: Moderate/Severe Disabilities. 8 Units.
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)
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. Formerly ESPE 679C.

ESPE 621C. Supervised Student Teaching in Special Education II: Early Childhood Special Education. 8 Units.
Prerequisites: grade of credit in ESPE 620C; completion of required credential coursework in the same quarter
Prerequisite/Corequisite: ESPE 673
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. Formerly ESPE 679F.

ESPE 622A. Supervised Intern Teaching in Special Education: Mild/Moderate Disabilities. 8 Units.
Prerequisites: Education Specialist Intern Credential in Mild/Moderate Disabilities; consent of Intern Coordinator
Full time teaching on an Education Specialist Internship credential in a special education public school setting designated by credential authorization. Admission to the designated Education Specialist Internship Program required. Must be repeated with a grade of Credit during each quarter of the Internship program until completion of credential objective for a minimum of 24 units. Graded credit/no credit. Formerly ESPE 680A.

ESPE 622B. Supervised Intern Teaching in Special Education: Moderate/Severe Disabilities. 8 Units.
Prerequisites: Education Specialist Intern Credential in Moderate/Severe Disabilities; consent of Intern Coordinator
Full time teaching on an Education Specialist Internship credential in a special education public school setting designated by credential authorization. Admission to the designated Education Specialist Internship Program required. Must be repeated with a grade of Credit during each quarter of the Internship program until completion of credential objective for a minimum of 24 units. Graded credit/no credit. Formerly ESPE 680B.

ESPE 622C. Supervised Intern Teaching in Special Education: Early Childhood Special Education. 8 Units.
Prerequisites: Education Specialist Intern Credential in Early Childhood Special Education; consent of Intern Coordinator
Full time teaching on an Education Specialist Internship credential in a special education public school setting designated by credential authorization. Admission to the designated Education Specialist Internship Program required. Must be repeated with a grade of Credit during each quarter of the Internship program until completion of credential objective for a minimum of 24 units. Graded credit/no credit. Formerly ESPE 680C.
ESPE 623A. Education Specialist Added Authorization Practicum: Autism Spectrum Disorders I. 4 Units.
Prerequisites: admission to the designated Education Specialist Added Authorization program
Corequisites: ESPE 610
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.

ESPE 623B. Education Specialist Added Authorization Practicum: Autism Disorders II. 4 Units.
Prerequisites: admission to the designated Education Specialist Added Authorization program. Prerequisites: a grade of "B-" or better in ESPE 610 and ESPE 623A
Corequisites: ESPE 627
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.

ESPE 623C. Education Specialist Added Authorization Practicum: Early Childhood Special Education I. 4 Units.
Prerequisites: admission to the designated Education Specialist Added Authorization program
Corequisites: ESPE 672
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.

ESPE 623D. Education Specialist Added Authorization Practicum: Early Childhood Special Education II. 4 Units.
Prerequisites: admission to the designated Education Specialist Added Authorization program. Prerequisites: grade of "B-" or better in ESPE 672 and ESPE 623C
Corequisites: ESPE 673
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.

ESPE 625. Collaboration and Consultation in Special Education. 4 Units.
Prerequisites: ESPE 530, ESPE 531, ESPE 611, and ESPE 612, and admission to the Special Education program
Competencies and skills for collaborative and consultative roles to develop partnerships with students, professionals, paraprofessionals, families, and community service personnel.

ESPE 627. Education of Students with Autism Spectrum Disorders. 4 Units.
Prerequisites: ESPE 530, ESPE 531, ESPE 610, ESPE 611, and ESPE 612, and admission to the Special Education program; or ESPE 610 and ESPE 623A, admission to the Autism Added Authorization program, and concurrent enrollment in ESPE 623B
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.

ESPE 630A. Topics in Research in Teaching and Learning: Gifted and Talented. 4 Units.
Prerequisites: consent of instructor
Survey of current research in teaching and learning.

ESPE 630B. Topics in Research in Teaching and Learning: Special Education. 4 Units.
Prerequisites: consent of instructor
Survey of current research in teaching and learning.

ESPE 633. Reflective Inquiry Seminar and Induction Plan. 4 Units.
Prerequisites: completion of Level I requirements and consent of program coordinator
Initial professional Level II course for the special education credential. Designed to culminate the content completed in Level I courses and to establish the induction plan; the concluding activity is the Individualized Induction Plan (IIP). The IIP is completed in collaboration with student, university, and local education agency. Twenty hours of fieldwork required.

ESPE 634. Reflective Inquiry: Seminar for Clear Induction Planning. 4 Units.
Prerequisites: Education Specialist Preliminary Credential
Designed to extend and contextualize the content completed in the preliminary credential program and to establish the Individual Induction Plan (IIP). The IIP is the culminating activity in this course and is completed in collaboration with student, university, and local education agency.

ESPE 635. Effective Communication with Professionals and Families. 4 Units.
Prerequisites: Level I Preliminary Education Specialist Instruction Credential and ESPE 633
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.
ESPE 636. Assessment, Curriculum, Instruction: Culturally/Linguistically Diverse Students with Disabilities. 4 Units.
Prerequisites: Successful completion of ESPE 634 and ESPE 696A
Course provides instruction in the concepts of second-language acquisition, diversity, cultural transmission, and the acculturation process. Students will learn how to appropriately assess students and plan instructional programs for culturally and linguistically diverse students with special needs. Legal issues, IEPs and teaching responsibilities for English language learners (ELLs) with disabilities will be addressed. In addition, information regarding effective collaboration with paraprofessionals and parents of ELLs will be included.

ESPE 642. Methods in Mild/Moderate Disabilities I. 4 Units.
Prerequisites: ESPE 610, ESPE 611, ESPE 612, ESPE 613, and ESPE 614
Methods and differentiated instruction for students with mild to moderate disabilities including learning disabilities, language development, and data based decision-making.

ESPE 643. Methods in Mild/Moderate Disabilities II. 4 Units.
Prerequisites: ESPE 642
Strategies, methods, and materials as well as curriculum modification in subject matter content areas for students with mild to moderate disabilities.

ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation. 4 Units.
Prerequisites: Level I Preliminary Education Specialist Credential and ESPE 633
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.

ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities. 4 Units.
Prerequisites: Preliminary Level I Education Specialist Credential: Moderate/Severe and ESPE 633
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.

ESPE 656. Curriculum and Methods in Special Education: Core Subjects. 4 Units.
Prerequisites: Preliminary Level I Education Specialist Credential: Mild/Moderate
Methods, materials and strategies for designated subject areas with particular emphasis on adapting and modifying curriculum from general education frameworks for students with mild/moderate special needs. Formerly ESPE 684C.

ESPE 657. Seminar on Mild/Moderate Disabilities. 4 Units.
Prerequisites: ESPE 530, ESPE 531, ESPE 611, ESPE 612, ESPE 613 and ESPE 656
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.

ESPE 658. Seminar on Moderate/Severe Disabilities. 4 Units.
Prerequisites: ESPE 529, 530, 624, 637, 651, and 652
Advanced seminar designed to study current issues and empirical research findings relating to the education of students with moderate and severe disabilities.

ESPE 662. Methods for Students with Moderate/Severe Disabilities I. 4 Units.
Prerequisites: ESPE 610 and ESPE 611
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.

ESPE 663. Methods for Students with Moderate/Severe Disabilities II. 4 Units.
Prerequisites: ESPE 662
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.

ESPE 672. Methods in Early Childhood Special Education I. 4 Units.
Prerequisites: ESPE 610, ESPE 611, and ESPE 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
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.
ESPE 673. Methods in Early Childhood Special Education II. 4 Units.
Prerequisites: ESPE 610, ESPE 611, and ESPE 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
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.

ESPE 685. Advanced Behavior Management. 4 Units.
Prerequisites: ESPE 530, ESPE 611, ESPE 620, ESPE 635, ESPE 640, ESPE 679A, ESPE 679C, or consent of instructor
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.

ESPE 691A. Issues and Trends in Special Education: Current Issues. 4 Units.
Prerequisites: ESPE 530, 531, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691B. Issues and Trends in Special Education: Collaboration and Consultation. 4 Units.
Prerequisites: ESPE 530, 531, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691C. Issues and Trends in Special Education: Early Childhood. 4 Units.
Prerequisites: ESPE 530, 531, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691D. Issues and Trends in Special Education: Instructional Technologies. 4 Units.
Prerequisites: ESPE 530, 531, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691E. Issues and Trends in Special Education: Administration. 4 Units.
Prerequisites: ESPE 530, 531, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691F. Issues and Trends in Special Education: Historical. 4 Units.
Prerequisites: ESPE 529, 530, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691G. Issues and Trends in Special Education: Special Populations. 4 Units.
Prerequisites: ESPE 529, 530, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691H. Issues and Trends in Special Education: Transition. 4 Units.
Prerequisites: ESPE 529, 530, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 691J. Issues and Trends in Special Education: Post Secondary. 4 Units.
Prerequisites: ESPE 529, 530, 611, and 612
Specialized in-depth study of selected topics in special education. Field study experience included.

ESPE 694. Special Education Leadership Evaluation and Outcomes II. 4 Units.
Prerequisites: California Preliminary Specialist Credential in the same credential area, completion of Level II 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 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.

ESPE 695. Special Education Clear Induction Outcomes. 4 Units.
Prerequisites: Preliminary Education Specialist Credential, successful completion of ESPE 615, ESPE 634, ESPE 696A, and ESPE 696B
Assessment of Participating Teachers’ Education Specialist Clear Induction Program Professional Development Portfolio. Candidates will refine and update the approved Individual Induction Plan (IIP); apply conceptual knowledge into practice; build upon the foundation of the Preliminary Credential program; submit a professional portfolio, including evidence of the implementation of the IIP as well as meeting all Education Specialist Clear Induction Standards.

ESPE 696A. Induction Support I. 2 Units.
Course provides support to participating teachers (PTs) in the Education Specialist Clear Induction Program. PTs will learn how to gather information about their students, school, district, and community and determine its impact on teaching and learning. PTs will also assess their teaching practice as it relates to the California Standards for the Teaching Profession (CSTPs) and Induction Standards. Graded credit/no credit.
ESPE 696B. Induction Support II. 1 Unit.
Prerequisites: Grade of credit in ESPE 696A
Course provides support to participating teachers (PTs) in the Education Specialist Clear Induction Program. PTs will learn how to create an inquiry to assess their teaching practice and student academic achievement. PTs will also analyze and reflect on evidence from their inquiry and its impact on teaching practice and student academic achievement. Graded credit/no credit.

ESPE 696C. Induction Support III. 1 Unit.
Prerequisites: Grade of credit in ESPE 696A and ESPE 696B
Course provides support to participating teachers (PTs) in the Education Specialist Clear Induction Program. PTs extend their experience to create an inquiry to assess their teaching practice and student academic achievement. PTs will also analyze and reflect on evidence from their inquiry and its impact on teaching practice and student academic achievement. Graded credit/no credit.

ESPE 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.
Master of Arts in Education - Correctional and Alternative Education Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in curriculum and instruction 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 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 reading/language arts is a program for creative educators in a nontraditional format emphasizing educational innovation, integrative learning, and meaning-centered learning.

Requirements for Graduation

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;
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)**

a. EDUC 600. Master’s Degree Project  
b. 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**

a. EDCA 999. Comprehensive Examination  
b. 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 in Graduate Degree and Program Requirements (p. 60).

**Degree Requirements (48 units)**

<table>
<thead>
<tr>
<th>Education Core Courses (12)</th>
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<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
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<th>Correctional and Alternative Education Core (16)</th>
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<tbody>
<tr>
<td>EDCA 614</td>
<td>Foundations of Institutional Education: History and Literature</td>
</tr>
<tr>
<td>EDCA 616</td>
<td>Teaching the Institutional Student</td>
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<tr>
<td>EDCA 618</td>
<td>Social and Cultural Dynamics of Institutional Education</td>
</tr>
<tr>
<td>EDCA 620</td>
<td>Educational Change in Institutional Settings</td>
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<tr>
<th>Electives (12)</th>
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Twelve units in the student’s area of specialization, chosen in consultation with advisor.

**Culminating Experience (8)**

Student must take one of the following two tracks:  

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<tr>
<th>Total Units</th>
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<tr>
<td>48</td>
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**Track A. Master’s Thesis/Project option**

<table>
<thead>
<tr>
<th>EDUC 600</th>
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<tbody>
<tr>
<td>EDCA 628</td>
<td>Special Education in Correctional Institutions</td>
<td>4</td>
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<tr>
<td>EDCA 630</td>
<td>Alternative and Correctional Education</td>
<td>4</td>
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<tr>
<td>EDCA 632</td>
<td>Career and Vocational Education in Correctional Institutions</td>
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<tr>
<td>EDCA 634</td>
<td>Correctional Education Leadership</td>
<td>4</td>
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<td>EDCA 636</td>
<td>Pedagogy and Andragogy in Correctional Institutions</td>
<td>4</td>
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<tr>
<td>EDCA 638</td>
<td>Organization of Correctional and Alternative Education Service Delivery</td>
<td>4</td>
</tr>
<tr>
<td>EDCA 640</td>
<td>Literacy in Adult Confinement Institutions</td>
<td>4</td>
</tr>
<tr>
<td>EDCA 642</td>
<td>Library Services for Alternative and Correctional Students</td>
<td>4</td>
</tr>
<tr>
<td>EDCA 644</td>
<td>Pre- and Post-Release Transitions for Correctional Students</td>
<td>4</td>
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<tr>
<td>EDCA 646</td>
<td>Comparative Correctional Education</td>
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<tr>
<td>EDCA 684</td>
<td>Special Topics in Correctional and Alternative Education</td>
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<th>Total Units</th>
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<td>8</td>
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**Track B: Comprehensive Examination Option**

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<th>EDCA 999</th>
<th>Comprehensive Examination</th>
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<td>Eight units of electives chosen from the list above.</td>
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<th>Total Units</th>
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<td>8</td>
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Master of Arts in Education - Kinesiology Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 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 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.

Requirements (46 units)

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid teaching credential, teaching experience or related experience;
2. An undergraduate major in kinesiology and physical education or related discipline;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of Kinesiology. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B)
3. Satisfactorily completed EDUC 605 and EDUC 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.

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.

California State University, San Bernardino
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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 Masters Degree (4 s.h.)
   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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 506P</td>
<td>Curriculum and Instruction in the Content Areas: Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 600</td>
<td>Graduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>KINE 623</td>
<td>Sport and Social Issues</td>
<td>4</td>
</tr>
<tr>
<td>KINE 624</td>
<td>Sport Psychology</td>
<td>4</td>
</tr>
<tr>
<td>KINE 630</td>
<td>Physical Education for Special Populations</td>
<td>4</td>
</tr>
<tr>
<td>KINE 670</td>
<td>Leadership in Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 681</td>
<td>Exercise and Sport Science</td>
<td>4</td>
</tr>
<tr>
<td>KINE 685</td>
<td>Analysis of Human Movement</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Culminating Experience:</td>
<td></td>
</tr>
<tr>
<td>EDUC 600</td>
<td>Masters Degree</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>46</td>
</tr>
</tbody>
</table>
Master of Arts in Education -
Teacher Leadership Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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.

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, or related experience with coordinator approval;
2. A baccalaureate degree from an accredited college or university with a minimum undergraduate grade point average of at least 3.0 ("B") overall and 3.0 in the major;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, one from the institution 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 500 words including the applicant’s personal goals for the graduate education program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the program coordinator. 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 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 in this program and approved by the program coordinator;
   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 EDUC 603 and EDUC 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 34 quarter units of acceptable graduate level work 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. Comprehensive Examination EDCI 999. Students may take the examination twice;

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

Degree Requirements (48 units)

Education Core Courses (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 12

Emphasis Areas (36 units)

Organizational Leadership (8)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EADM 601</td>
<td>Educational Leadership and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>EADM 607</td>
<td>Culture, Politics and Communication in Diverse Society</td>
<td>4</td>
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</table>

Learning/Teaching (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDCI 638</td>
<td>Advanced Educational Psychology</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 634</td>
<td>Motivation, Teaching and Learning</td>
<td>4</td>
</tr>
<tr>
<td>EDCI 641</td>
<td>Curriculum and Policy</td>
<td>4</td>
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Technology Leadership (8)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ETEC 546</td>
<td>Computer Based Technology in Education II</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 623</td>
<td>Technology for Educational Leaders</td>
<td>4</td>
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Inclusive Education (8)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDUC 630</td>
<td>Supportive Learning Environments for All Students</td>
<td>4</td>
</tr>
<tr>
<td>EESL 670</td>
<td>Principles and Practice in TESOL</td>
<td>4</td>
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Culminating Experience (0)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDCI 999</td>
<td>Comprehensive Examination</td>
<td>0</td>
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</tbody>
</table>

Total Units 36
Master of Arts in Education  
- Mathematics and Science Education Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

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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.

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 California Teaching Credential or related teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education, science and mathematics;
3. Completion of the graduate entrance writing requirement;

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 8 units of mathematics education and at least 8 units of 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. 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 44 units of required coursework in education, mathematics education and science education;
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:
   Group A: Masters Degree Thesis/Project Option
   EDSC 699 Masters Degree Project 4
   Group B: Comprehensive Examination Option
   EDSC 999 Comprehensive Examination 0
### Degree Requirements (48 units)

**Education (8)**
- EDUC 605  Foundations of Education  4
- EDUC 607  Introduction to Educational Research  4

**Science Education (24)**
- EDSC 623  Teaching Physical Science in STEM Education  4
- EDSC 634  Research in Mathematics and Science Education  4
- EDSC 643  Assessment in the Science Classroom  4
- EDSC 644  Inquiry in the Mathematics and Science Classroom  4
- EDSC 647  Teaching Earth/Space Science in STEM Education  4
- EDSC 648  Teaching Life Science in STEM Education  4

**Mathematics Education (12)**
- ESTM 624  Teaching Elementary Mathematics in STEM Education  4
- ESTM 625  Teaching Algebra in STEM Education  4
- ESTM 626  Teaching Geometry in STEM Education  4

**Culminating Experience (4)**

Students must complete one of the following options:

- Thesis/Project Option:
  - EDSC 699  Masters Degree Project

- Comprehensive Examination Option:
  - EDSC 999  Comprehensive Examination
  - ESTM 628  and Integrating Mathematics and Science in the STEM Classroom

**Total Units**  48
Master of Science in Counseling and Guidance

Requirements (90 units)

The M.S. in Counseling and Guidance is a professional program preparing students to apply to the California Board of Behavioral Sciences to become Licensed Professional Clinical Counselors. It also prepares students to become educational counselors in grades K-12. Students who complete the requirements of the MS in Educational Counseling will concurrently be eligible to receive the M.S. and apply for the California Pupil Personnel Services Credential.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Attend a Counseling Program admission 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 meetings. Portfolios will be evaluated according to the Counseling program portfolio rubric. A completed portfolio contains:
   a. Application and current vitae/resume;
   b. Transcripts of all higher education coursework;
   c. Written Personal Statement;
   d. Three positive recommendations from persons having knowledge of applicant’s counseling potential (forms provided by program);
   e. Proof of successful completion of the CBEST;
   f. Evidence of current negative TB skin test;
   g. Evidence of possession of 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;
   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 Counseling faculty. Students will be notified about the result of their application and invited to enroll in ECLG 531
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 members of the Educational Counseling faculty. This committee will evaluate the admission folder and decide on the student’s admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

Advancement to Candidacy

In order to be formally advanced to candidacy a student must have:
1. Achieved classified graduate standing;
2. Completed 20 quarter units of coursework with a grade point average of 3.0 (“B”), to include ECLG 619, ECLG 654 and ECLG 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 90 quarter units of graduate-level work, with a minimum of 64 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, ECLG 657A, 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 in the requirements for a Master’s Degree listed in Graduate Degree and Program Requirements (p. 60).

The comprehensive examination is designed to test the student’s knowledge of the field of counseling and guidance. The examination is a standardized national exam, the Counselor Preparation Comprehensive Examination (CPCE). The student will take the examination during the fourth fieldwork experience course. The student must be advanced to candidacy one quarter before taking the comprehensive examination. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake the exam. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

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 26 quarter units in extension and transfer credit from other 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.

Degree Requirements (90 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 531</td>
<td>Introduction to Counseling</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 619</td>
<td>Appraisal Procedures in Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 633</td>
<td>Human Development for Counseling</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
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<tr>
<td>------------</td>
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</tr>
<tr>
<td>ECLG 650</td>
<td>Career Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 654</td>
<td>Legal and Ethical Issues in Counseling and Guidance</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 655</td>
<td>Multicultural Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 656</td>
<td>Counseling Theories</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 657A</td>
<td>Counseling Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 657B</td>
<td>Advanced Counseling Practice</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 658</td>
<td>Family Consultation</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 661</td>
<td>Diagnosis and Treatment Plan</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 662</td>
<td>Addictions Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 663</td>
<td>Gender and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 664</td>
<td>Crisis and Trauma Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 665</td>
<td>Family Violence</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 667</td>
<td>Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 668</td>
<td>Aging Death and Grief</td>
<td>4</td>
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<tr>
<td>ECLG 669</td>
<td>Psychopharmacology</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 678</td>
<td>Group Counseling</td>
<td>4</td>
</tr>
</tbody>
</table>

Twelve units of field experience made up by enrolling three times in:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECLG 679</td>
<td>Counseling Field Experience</td>
<td>12</td>
</tr>
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</table>

Culminating Experience. Students must choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 999</td>
<td>Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>or ECLG 697</td>
<td>Master's Degree Project</td>
<td></td>
</tr>
</tbody>
</table>

(ECLG 697 by permission of program coordinator)

Note: For students also seeking a PPS credential (see PPS credential program) in addition to the Masters degree, two extra Counseling Fieldwork ECLG 679 courses must be completed in schools. In addition the following two additional courses must be taken:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 632</td>
<td>Advanced Psychological Foundations of Education</td>
<td></td>
</tr>
<tr>
<td>ECLG 651</td>
<td>Professional School Counselor</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 90
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/institutions 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.
3. Dissertation Proposal and Dissertation Final Examination (Written)
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 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 700</td>
<td>Scientific Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 702</td>
<td>Foundations in Education and Leadership</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 705</td>
<td>Organization and Administration of School Systems/Community Colleges</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 707</td>
<td>Quantitative Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 709</td>
<td>Diversity and Equity in Educational Administration: School Districts and Community Colleges</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 712</td>
<td>Qualitative Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 714</td>
<td>Educational Systems as Cultural and Social Systems</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 718</td>
<td>Strategic Planning, Accountability and Change</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 720</td>
<td>Advanced Quantitative Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 722</td>
<td>Advanced Qualitative Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 726</td>
<td>Ethical Leadership and Decision Making in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 780A-D</td>
<td>Special Topics in Educational Leadership</td>
<td>1-4</td>
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<tr>
<td>EDUC 795C-D</td>
<td>Independent Study</td>
<td>3-4</td>
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<tr>
<td>EDUC 797D</td>
<td>Specialization. Students must take all courses within one of the following specializations.</td>
<td>23</td>
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<tr>
<td>EDUC 790</td>
<td>Research Seminar (for a total of 5)</td>
<td>5</td>
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<tr>
<td>EDUC 799B-F</td>
<td>Dissertation</td>
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Total Units 23

Specializations

P-12 Specialization (23 units)

<table>
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<tr>
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<tbody>
<tr>
<td>EADM 730</td>
<td>Politics, Legislative Action and Educational Change</td>
<td>4</td>
</tr>
<tr>
<td>EADM 732</td>
<td>Fiscal Planning and Facilities Management</td>
<td>5</td>
</tr>
<tr>
<td>EADM 734</td>
<td>Advanced Human Resource Management</td>
<td>5</td>
</tr>
<tr>
<td>EADM 736</td>
<td>Instructional Leadership and Learning Strategies</td>
<td>4</td>
</tr>
<tr>
<td>EADM 738</td>
<td>Assessment and Evaluation</td>
<td>5</td>
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<td></td>
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</tr>
</tbody>
</table>

Total Units 23

Community College Specialization (23 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EADM 760</td>
<td>Foundations and Introduction to Community College</td>
<td>4</td>
</tr>
<tr>
<td>EADM 762</td>
<td>Trends and Issues in Community Colleges</td>
<td>4</td>
</tr>
<tr>
<td>EADM 764</td>
<td>Instructional Methodologies and Strategies in Community Colleges</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
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</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>EADM 766</td>
<td>Community College Finances and Fiscal Resources</td>
<td>5</td>
</tr>
<tr>
<td>EADM 768</td>
<td>Community College Leadership, Governance, Policy and Politics</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
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<td><strong>23</strong></td>
</tr>
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</table>

**NOTE:** the Community College Track will not be offered during the 2012-14 academic year.
Adapted Physical Education
Added Authorization

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.

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 post baccalaureate 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>KINE 311</td>
<td>Introduction to Adapted Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 330</td>
<td>Movement Skill Assessment for Individuals with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>KINE 332</td>
<td>The Nature and Issues Concerning Individuals with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>KINE 333</td>
<td>Applied Behavior Management</td>
<td>4</td>
</tr>
<tr>
<td>KINE 334</td>
<td>Seminar in Adapted Physical Activity</td>
<td>4</td>
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<tr>
<td>Total Units</td>
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<td></td>
</tr>
</tbody>
</table>
Autism Spectrum Disorder Added Authorization in Special Education

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.

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: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ESPE 610</td>
<td>Introduction to Autism Spectrum Disorders</td>
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<tr>
<td>ESPE 623A</td>
<td>Education Specialist Added Authorization Practicum:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Autism Spectrum Disorders I (must be taken concurrently with ESPE 610)</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 623B</td>
<td>Education Specialist Added Authorization Practicum:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Autism Disorders II (must be taken concurrently with ESPE 627)</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 627</td>
<td>Education of Students with Autism Spectrum Disorders</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
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<td>16</td>
</tr>
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</table>
Designated Subjects Career and Technical Education Teaching Credential

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.

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. 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS 501</td>
<td>Principles and Methods for Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 502</td>
<td>Instructional Support for Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 503</td>
<td>Contemporary Issues in Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 504</td>
<td>Principles of Career and Technical Education</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 518</td>
<td>Field Work in Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 519</td>
<td>Computer Applications for Career and Technical Educators</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 24

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

2. Fulfill the health education requirement: HSCI 540.
4. Two (2) years of teaching experience.

The Preliminary Credential is used 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, and taught a minimum of two years under the Preliminary Credential.

Applicants having questions about Designated Subjects Credentials, the Bachelor of Arts in Career and Technical Studies, or the Bachelor of Science in Career and Technical Studies should contact the Program Coordinator of the specific program.
Early Childhood Special Education Added Authorization

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.

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: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 623C</td>
<td>Education Specialist Added Authorization Practicum: Early Childhood Special Education I (must be taken concurrently with ESPE 672)</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 623D</td>
<td>Education Specialist Added Authorization Practicum: Early Childhood Special Education II (must be taken concurrently with ESPE 673)</td>
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</tr>
<tr>
<td>ESPE 672</td>
<td>Methods in Early Childhood Special Education I</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 673</td>
<td>Methods in Early Childhood Special Education II</td>
<td>4</td>
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</table>

Total Units: 16
Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization

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.

Requirements (112 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 CSU Special Education Program website (http://www.csusb.edu/coe/programs/special_ed) 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 course work 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:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
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<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education</td>
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ONE of the following with a grade of "B-" or better:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td>4-6</td>
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</table>

HD 240 Introduction to Child Development

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 (16 units)

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: Early Childhood Special Education;
2. Satisfactory completion of program pre-requisite AND pre-service course work requirements with a grade of "B-" or better unless otherwise specified:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education (requires grade B or better)</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education (requires grade B or better)</td>
<td>4</td>
</tr>
</tbody>
</table>
ESPE 614  Curriculum and Methods for Diverse Learners with Disabilities  4
HD 240  Introduction to Child Development (or equivalent child development course)  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;
   d. 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:
   - HIST 146  American Civilization  4
   - HIST 200  United States History to 1877  4
   - HIST 540  Constitutional History of the United States  4
   - PSCI 203  American Government  4
   - PSCI 410  American Constitutional Law  4
   - PSCI 411  The Bill of Rights  4
   Successful completion of an examination administered through the College of Extended Learning;
   
   **Approved U.S. Constitution course substitution at another university.**

**Internship Program Requirements (80 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-."

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 610</td>
<td>Introduction to Autism Spectrum Disorders</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 611</td>
<td>Assessment Methods in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 612</td>
<td>Supportive Learning Environments for Students with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 615</td>
<td>Seminar on Language and Literacy in Early Childhood Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 622C</td>
<td>Supervised Intern Teaching in Special Education: Early Childhood Special Education (8 for a total of 48)</td>
<td>48</td>
</tr>
<tr>
<td>ESPE 625</td>
<td>Collaboration and Consultation in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 627</td>
<td>Education of Students with Autism Spectrum Disorders</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 672</td>
<td>Methods in Early Childhood Special Education I</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 673</td>
<td>Methods in Early Childhood Special Education II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units**  80

**Recommendation for the Preliminary Education Specialist Credential: Early Childhood Special Education**

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: Early Childhood Special Education:

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. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services.
Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

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.

Requirements (112 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 CSU Special Programs website (http://www.csusb.edu/coe/programs/special_ed) 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 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;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ONE of the following with a grade of &quot;B-&quot; or better:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td></td>
</tr>
<tr>
<td>HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
</tr>
</tbody>
</table>

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 (16 units)

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-requisite AND pre-service course work requirements with a grade of "B-" or better unless otherwise specified:

<table>
<thead>
<tr>
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<td>ESPE 530</td>
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</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education (requires grade B or better)</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 614</td>
<td>Curriculum and Methods for Diverse Learners with Disabilities</td>
<td>4</td>
</tr>
</tbody>
</table>
HD 240 Introduction to Child Development (or equivalent child development course) 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: 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:
   - HIST 146 American Civilization 4
   - HIST 200 United States History to 1877 4
   - HIST 540 Constitutional History of the United States 4
   - PSCI 203 American Government 4
   - PSCI 410 American Constitutional Law 4
   - PSCI 411 The Bill of Rights 4
   Successful completion of an examination administered through the College of Extended Learning;
   - Approved U.S. Constitution course substitution at another university.

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-:"  

Internship Program Requirements (80 units)

ESPE 610 Introduction to Autism Spectrum Disorders 4
ESPE 611 Assessment Methods in Special Education 4
ESPE 612 Supportive Learning Environments for Students with Disabilities 4
ESPE 613 Seminar in Literacy Learning for Students with Disabilities 4
ESPE 622A Supervised Intern Teaching in Special Education: Mild/Moderate Disabilities (8 for a total of 48) 48
ESPE 625 Collaboration and Consultation in Special Education 4
ESPE 627 Education of Students with Autism Spectrum Disorders 4
ESPE 642 Methods in Mild/Moderate Disabilities I 4
ESPE 643 Methods in Mild/Moderate Disabilities II 4

Total Units 80

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.

Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

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.

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 disabilities while earning the Preliminary Education Specialist Credential in Moderate/Severe 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 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.

Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Moderate/Severe Disabilities Intern Coordinator for program information, including the 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 Moderate/Severe 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 CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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 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;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   - ESPE 530 Introduction to Special Education 4
   - ESPE 531 Methods and Procedures in Special Education 4
   - ONE of the following with a grade of "B-" or better: 4-6
     - EELB 301 Growth and Development in Socio-Educational Contexts
     - HD 240 Introduction to Child Development

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 (16 units)

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-requisite AND pre-service course work requirements with a grade of "B-" or better unless otherwise specified:
   - ESPE 530 Introduction to Special Education (requires grade B or better) 4
   - ESPE 531 Methods and Procedures in Special Education (requires grade B or better) 4
   - ESPE 614 Curriculum and Methods for Diverse Learners with Disabilities 4

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 disabilities while earning the Preliminary Education Specialist Credential in Moderate/Severe 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 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.

Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Moderate/Severe Disabilities Intern Coordinator for program information, including the 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 Moderate/Severe 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 CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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 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;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:
   - ESPE 530 Introduction to Special Education 4
   - ESPE 531 Methods and Procedures in Special Education 4
   - ONE of the following with a grade of "B-" or better: 4-6
     - EELB 301 Growth and Development in Socio-Educational Contexts
     - HD 240 Introduction to Child Development

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 (16 units)

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-requisite AND pre-service course work requirements with a grade of "B-" or better unless otherwise specified:
   - ESPE 530 Introduction to Special Education (requires grade B or better) 4
   - ESPE 531 Methods and Procedures in Special Education (requires grade B or better) 4
   - ESPE 614 Curriculum and Methods for Diverse Learners with Disabilities 4
Introduction to Child Development (or equivalent child development course) 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 Processing in the College of Education Student Services;
3. Completion of the U.S. Constitution requirement by one of the following:
   HIST 146 American Civilization 4
   HIST 200 United States History to 1877 4
   HIST 540 Constitutional History of the United States 4
   PSCI 203 American Government 4
   PSCI 410 American Constitutional Law 4
   PSCI 411 The Bill of Rights 4
   Successful completion of an examination administered through the College of Extended Learning;
   Approved U.S. Constitution course substitution at another university.

Internship Program Requirements (80 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-”

ESPE 610 Introduction to Autism Spectrum Disorders 4
ESPE 611 Assessment Methods in Special Education 4
ESPE 612 Supportive Learning Environments for Students with Disabilities 4

ESPE 613 Seminar in Literacy Learning for Students with Disabilities 4
ESPE 622B Supervised Intern Teaching in Special Education: Moderate/Severe Disabilities (8 for a total of 48) 48
ESPE 625 Collaboration and Consultation in Special Education 4
ESPE 627 Education of Students with Autism Spectrum Disorders 4
ESPE 662 Methods for Students with Moderate/Severe Disabilities I 4
ESPE 663 Methods for Students with Moderate/Severe Disabilities II 4

Total Units 80

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.
Multiple Subject Credential
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.

Requirements (48 units)

Students must apply to the program via CSU Mentor (http://www.csumentor.edu). 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 academic 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 postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted,
   b. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-.

7. Documentation of 45 hours of experience in K-12 classrooms;
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:
   - ENG 311 The English Language 4
   - EELB 301 Growth and Development in Socio-Educational Contexts 4-6
   - or HD 240 Introduction to Child Development
12. Satisfactory completion of or current enrollment in:
   - HSCI 100 Concepts in Health 2
   - ESPE 350 Introduction to Special Populations for General Education Teachers 4
   - or PSYC 350 Development of Exceptional Children

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, EELB 313, EELB 315, EELB 317 and EELB 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;
5. Completion of the upper-division writing requirement at this university, or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST. (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)

All course work taken at another college more than seven years ago, is subject to approval by the director of the Multiple Subject Program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.

Each applicant is reviewed in terms of all of the above criteria and conditions and must be at least of senior standing. Student teaching for the credential is a full-time assignment for one quarter each of EELB 520A
Students who fail to complete the following courses will be denied continuation in the program. An appeal process is available. Consult the program director for details.

Program prerequisites (10)
Students entering the program must have successfully completed:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Contexts (and a concurrent observation course)</td>
<td></td>
</tr>
<tr>
<td>or HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
</tr>
</tbody>
</table>

Program prerequisites or corequisites (6)
Students entering the program must have successfully completed or be currently enrolled in:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 100</td>
<td>Concepts in Health</td>
<td>2</td>
</tr>
<tr>
<td>ESPE 350</td>
<td>Introduction to Special Populations for General</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Education Teachers</td>
<td></td>
</tr>
<tr>
<td>or PSYC 350</td>
<td>Development of Exceptional Children</td>
<td></td>
</tr>
</tbody>
</table>

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 (16)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 312</td>
<td>Family, Culture and Schooling</td>
<td>4</td>
</tr>
<tr>
<td>EELB 313</td>
<td>Pedagogical Foundations for English Language</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Learners</td>
<td></td>
</tr>
<tr>
<td>EELB 315</td>
<td>Reading/Language Arts Curriculum and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>EELB 317</td>
<td>Educational Psychology for a Diverse Society</td>
<td>4</td>
</tr>
<tr>
<td>EELB 520B</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Designing Instruction Task 2</td>
<td></td>
</tr>
</tbody>
</table>

Phase II (16)
First quarter of student teaching

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 422</td>
<td>Classroom Organization, Management and Discipline</td>
<td>2</td>
</tr>
<tr>
<td>EELB 423</td>
<td>Mathematics Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 425</td>
<td>Literacy and Second Language Acquisition for the</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Reader and Beyond</td>
<td></td>
</tr>
</tbody>
</table>

Second quarter of student teaching

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 520A</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Subject Specific Pedagogy Task 1</td>
<td></td>
</tr>
<tr>
<td>EELB 520D</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Culminating Teaching Experience Task 4</td>
<td></td>
</tr>
<tr>
<td>EELB 532</td>
<td>Science/Health Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 533</td>
<td>Social Studies and the Arts Curriculum Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 540B</td>
<td>Supervised Student Teaching in Multiple Subject II</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units 48

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

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.

Requirements (48 units)

Students must apply to the program via CSU Mentor (http://www.csumentor.edu). 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 California Educational Skills Test (CBEST). Students must submit a Program Admission File (PAF) to the Credentials 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 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 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 postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
   b. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-".
   No candidate may be recommended for the credential who has received a grade lower than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.
7. Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
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:
   - ENG 311 The English Language 4
   - EELB 301 Growth and Development in Socio-Educational Contexts 6
   or HD 240 Introduction to Child Development
12. Satisfactory completion of or current enrollment in:
   - HSCI 100 Concepts in Health 2
   - ESPE 350 Introduction to Special Populations for General Education Teachers 4
   or PSYC 350 Development of Exceptional Children

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 EELB 422, EELB 423, EELB 425, and EELB 520C) and EELB 540B (and EELB 532, EELB 534, and EELB 540). No concurrent course work should be taken beyond the elementary education courses without permission of the program director.

Students who fail to complete the following courses will be denied continuation in the program. An appeal process is available. Consult the program director for details.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 422</td>
<td>Classroom Organization, Management and Discipline</td>
<td>2</td>
</tr>
<tr>
<td>EELB 423</td>
<td>Mathematics Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 425</td>
<td>Literacy and Second Language Acquisition for the</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Reader and Beyond</td>
<td></td>
</tr>
<tr>
<td>EELB 520A</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Subject Specific Pedagogy Task 1</td>
<td></td>
</tr>
<tr>
<td>EELB 520C</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Assessing Student Learning Task 3</td>
<td></td>
</tr>
<tr>
<td>EELB 532</td>
<td>Science/Health Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 534</td>
<td>Social Studies and the Arts (Primary Language)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Curriculum and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>EELB 520D</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Culminating Teaching Experience Task 4</td>
<td></td>
</tr>
<tr>
<td>EELB 540A</td>
<td>Supervised Student Teaching in Multiple Subject I</td>
<td>6</td>
</tr>
<tr>
<td>EELB 540B</td>
<td>Supervised Student Teaching in Multiple Subject II</td>
<td>6</td>
</tr>
</tbody>
</table>

**Program prerequisites (10)**

Students entering the program must have successfully completed:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td>6</td>
</tr>
<tr>
<td>or HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
</tr>
</tbody>
</table>

**Program prerequisites or corequisites (6)**

Students entering the program must have successfully completed or be currently enrolled in:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 100</td>
<td>Concepts in Health</td>
<td>2</td>
</tr>
<tr>
<td>ESPE 350</td>
<td>Introduction to Special Populations for General</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Education Teachers</td>
<td></td>
</tr>
<tr>
<td>or PSYC 350</td>
<td>Development of Exceptional Children</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 16

**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 (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 312</td>
<td>Family, Culture and Schooling</td>
<td>4</td>
</tr>
<tr>
<td>EELB 313</td>
<td>Pedagogical Foundations for English Language Learners</td>
<td>4</td>
</tr>
<tr>
<td>EELB 316</td>
<td>Reading/Language Arts (Primary Language)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Curriculum and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>EELB 317</td>
<td>Educational Psychology for a Diverse Society</td>
<td>4</td>
</tr>
<tr>
<td>EELB 520B</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Designing Instruction Task 2</td>
<td></td>
</tr>
</tbody>
</table>

**Phase II (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 422</td>
<td>Classroom Organization, Management and Discipline</td>
<td>2</td>
</tr>
<tr>
<td>EELB 423</td>
<td>Mathematics Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 425</td>
<td>Literacy and Second Language Acquisition for the</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Reader and Beyond</td>
<td></td>
</tr>
<tr>
<td>EELB 520C</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Assessing Student Learning Task 3</td>
<td></td>
</tr>
<tr>
<td>EELB 540A</td>
<td>Supervised Student Teaching in Multiple Subject I</td>
<td>6</td>
</tr>
</tbody>
</table>

**Phase III (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 520A</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Subject Specific Pedagogy Task 1</td>
<td></td>
</tr>
<tr>
<td>EELB 520D</td>
<td>Teaching Performance Assessment Seminar:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Culminating Teaching Experience Task 4</td>
<td></td>
</tr>
<tr>
<td>EELB 532</td>
<td>Science/Health Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 533</td>
<td>Social Studies and the Arts Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 540B</td>
<td>Supervised Student Teaching in Multiple Subject II</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units**: 48

**Additional Requirements**

Students must successfully complete:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English (This course has prerequisites)</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 146</td>
<td>American Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 200</td>
<td>United States History to 1877</td>
<td></td>
</tr>
<tr>
<td>HIST 540</td>
<td>Constitutional History of the United States</td>
<td></td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td></td>
</tr>
<tr>
<td>PSCI 410</td>
<td>American Constitutional Law</td>
<td></td>
</tr>
<tr>
<td>PSCI 411</td>
<td>The Bill of Rights</td>
<td></td>
</tr>
</tbody>
</table>

The Reading Instruction Competence Assessment (RICA) exam with a passing score;

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 Teacher Education Office.
Multiple Subject Credential and Multiple Subject Credential with Bilingual, Cross-cultural Language and Academic Development Emphasis (BLCAD) (Intern Track)

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.

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 CSU Mentor (http://www.csumentor.edu). 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).

For admission to the program, students must have successfully completed the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

Admission to the Program
Students must submit a Program Admission File (PAF). The PAF is to be submitted to 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 course work, with no course grade in this area lower than "B."
   No candidate may be recommended for the credential who has received a grade of less than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement;
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 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
   - HIST 200 United States History to 1877
   - HIST 540 Constitutional History of the United States
   - PSCI 203 American Government
   - PSCI 410 American Constitutional Law
   - PSCI 411 The Bill of Rights
13. Completion of a bachelor’s degree;
14. Satisfactory completion of prerequisite courses:
   - ENG 311 The English Language
   - EELB 301 Growth and Development in Socio-Educational Contexts
   or HD 240 Introduction to Child Development
15. Satisfactory completion of or current enrollment in:
   - HSCI 100 Concepts in Health
   - ESPE 350 Introduction to Special Populations for General Education Teachers
   or PSYC 350 Development of Exceptional Children

Each applicant is reviewed in terms of all of the above criteria. The final step involves obtaining employment from one of the approved cooperating school districts. (A listing of these districts is in the Handbook for Multiple Subject Credential Programs.)
Candidates apply for an intern credential once they are admitted to the intern track and have secured a job. The intern is employed full time in a multiple subject teaching assignment in an approved cooperating school district while enrolled in program coursework.

The CSUSB Intern Track may begin in any quarter and continues for a maximum timeline of two years. If a candidate does not secure a job, he/she may pursue the basic credential program as a student teacher.

Program prerequisites (10)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 311</td>
<td>The English Language</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td>6</td>
</tr>
<tr>
<td>or HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
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</tbody>
</table>

Program prerequisites or corequisites (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 100</td>
<td>Concepts in Health</td>
<td>2</td>
</tr>
<tr>
<td>ESPE 350</td>
<td>Introduction to Special Populations for General Education Teachers</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 350</td>
<td>Development of Exceptional Children</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 16

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 (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EELB 422</td>
<td>Classroom Organization, Management and Discipline</td>
<td>2</td>
</tr>
<tr>
<td>EELB 313</td>
<td>Pedagogical Foundations for English Language Learners</td>
<td>4</td>
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</table>

Three units chosen from:

<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 315</td>
<td>Reading/Language Arts Curriculum and Pedagogy</td>
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<td>EELB 316</td>
<td>Reading/Language Arts (Primary Language) Curriculum and Pedagogy</td>
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</tr>
<tr>
<td>EELB 520B</td>
<td>Teaching Performance Assessment Seminar: Designing Instruction Task 2</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 16

Phase II (19)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 312</td>
<td>Family, Culture and Schooling</td>
<td>4</td>
</tr>
<tr>
<td>EELB 423</td>
<td>Mathematics Curriculum and Pedagogy</td>
<td>4</td>
</tr>
<tr>
<td>EELB 425</td>
<td>Literacy and Second Language Acquisition for the Intermediate Reader and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>EELB 560A</td>
<td>Supervised Intern Teaching in Multiple Subject I</td>
<td>8</td>
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Phase III (14)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>EELB 520A</td>
<td>Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1</td>
<td>1</td>
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<tr>
<td>EELB 520C</td>
<td>Teaching Performance Assessment Seminar: Assessing Student Learning Task 3</td>
<td>1</td>
</tr>
<tr>
<td>EELB 532</td>
<td>Science/Health Curriculum and Pedagogy</td>
<td>4</td>
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<tr>
<td>EELB 560B</td>
<td>Supervised Intern Teaching in Multiple Subject II</td>
<td>8</td>
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Phase IV (13)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EELB 520D</td>
<td>Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4</td>
<td>1</td>
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<tr>
<td>Four units chosen from:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>EELB 533</td>
<td>Social Studies and the Arts Curriculum Pedagogy</td>
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</tr>
<tr>
<td>EELB 534</td>
<td>Social Studies and the Arts (Primary Language) Curriculum and Pedagogy</td>
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</tr>
<tr>
<td>EELB 560C</td>
<td>Supervised Intern Teaching in Multiple Subject III</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units 46

Additional Requirements

Students must successfully complete:

For Multiple Subject BCLAD interns only:

Both of the following to meet language and culture requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Comparative Linguistics: Spanish/English (This course has prerequisites.)</td>
<td>4</td>
</tr>
</tbody>
</table>

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 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.
Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization

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.

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: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td>4-6</td>
</tr>
<tr>
<td>HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
</tr>
</tbody>
</table>

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 ESPE 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, ESPE 611, ESPE 612, ESPE 613 and ESPE 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 course work 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 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:
   HIST 146 American Civilization  4
   HIST 200 United States History to 1877  4
   HIST 540 Constitutional History of the United States  4
   PSCI 203 American Government  4
   PSCI 410 American Constitutional Law  4
   PSCI 411 The Bill of Rights  4
   Successful completion of an examination administered through the College of Extended Learning;
   Approved U.S. Constitution course substitution from another university;

3. 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 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 (52 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 610 Introduction to Autism Spectrum Disorders  4
ESPE 611 Assessment Methods in Special Education  4
ESPE 612 Supportive Learning Environments for Students with Disabilities  4
ESPE 613 Seminar in Literacy Learning for Students with Disabilities  4
ESPE 614 Curriculum and Methods for Diverse Learners with Disabilities  4
ESPE 620C Supervised Student Teaching in Special Education I: Early Childhood Special Education  8
ESPE 621C Supervised Student Teaching in Special Education II: Early Childhood Special Education  8
ESPE 625 Collaboration and Consultation in Special Education  4
ESPE 627 Education of Students with Autism Spectrum Disorders  4
ESPE 672 Methods in Early Childhood Special Education I  4
ESPE 673 Methods in Early Childhood Special Education II  4
Total Units  52
Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

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.

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 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.

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 Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed) 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;
11. Satisfactory completion of prerequisite courses with a grade of “B” or better:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
<td>Growth and Development in Socio-Educational Contexts</td>
<td>4-6</td>
</tr>
<tr>
<td>HD 240</td>
<td>Introduction to Child Development</td>
<td></td>
</tr>
</tbody>
</table>

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 ESPE 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, ESPE 611, ESPE 612, ESPE 613 and ESPE 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:
   HIST 146 American Civilization  
   HIST 200 United States History to 1877  
   HIST 540 Constitutional History of the United States  
   PSCI 203 American Government  
   PSCI 410 American Constitutional Law  
   PSCI 411 The Bill of Rights
   Successful completion of an examination administered through the College of Extended Learning;
   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-":

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 610</td>
<td>Introduction to Autism Spectrum Disorders</td>
<td>4</td>
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<tr>
<td>ESPE 611</td>
<td>Assessment Methods in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 612</td>
<td>Supportive Learning Environments for Students with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 613</td>
<td>Seminar in Literacy Learning for Students with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 614</td>
<td>Curriculum and Methods for Diverse Learners with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 625</td>
<td>Collaboration and Consultation in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 627</td>
<td>Education of Students with Autism Spectrum Disorders</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 642</td>
<td>Methods in Mild/Moderate Disabilities I</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 643</td>
<td>Methods in Mild/Moderate Disabilities II</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 620A</td>
<td>Supervised Student Teaching in Special Education I: Mild/Moderate Disabilities</td>
<td>8</td>
</tr>
<tr>
<td>ESPE 621A</td>
<td>Supervised Student Teaching in Special Education II: Mild/Moderate</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units: 44-52

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.
Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

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.

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 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

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 Moderate/Severe 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 Program website (http://www.csusb.edu/coe/special_ed) 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;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 531</td>
<td>Methods and Procedures in Special Education</td>
<td>4</td>
</tr>
<tr>
<td>EELB 301</td>
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</tbody>
</table>

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 ESPE 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, ESPE 611, ESPE 612, ESPE 613 and ESPE 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 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 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:
   - HIST 146 American Civilization 4
   - HIST 200 United States History to 1877 4
   - HIST 540 Constitutional History of the United States 4
   - PSCI 203 American Government 4
   - PSCI 410 American Constitutional Law 4
   - PSCI 411 The Bill of Rights 4
   Successful completion of an examination administered through the College of Extended Learning;
   Approved 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-”:

- ESPE 610 Introduction to Autism Spectrum Disorders 4
- ESPE 611 Assessment Methods in Special Education 4
- ESPE 612 Supportive Learning Environments for Students with Disabilities 4
- ESPE 613 Seminar in Literacy Learning for Students with Disabilities 4
- ESPE 614 Curriculum and Methods for Diverse Learners with Disabilities 4
- ESPE 620B Supervised Student Teaching in Special Education I: Moderate/Severe Disabilities 8
- ESPE 621B Supervised Student Teaching in Special Education II: Moderate/Severe Disabilities 8
- ESPE 625 Collaboration and Consultation in Special Education 4
- ESPE 627 Education of Students with Autism Spectrum Disorders 4
- ESPE 662 Methods for Students with Moderate/Severe Disabilities I 4
- ESPE 663 Methods for Students with Moderate/Severe Disabilities II 4

Total Units 44-52

**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.
Single Subject Teaching Credential - Student Teaching Track

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.

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:
      i. 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.
      ii. 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 any course work with no course grade in this area lower than "B-.") Students 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.

8. Complete A or B below:
   a. Completion of one of the following approved subject matter preparation programs or these majors at this university:

<table>
<thead>
<tr>
<th>Single Subject Credential</th>
<th>Degree Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>B.A. Art (Plan I)</td>
</tr>
<tr>
<td>English</td>
<td>B.A. English</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>B.A. Spanish or B.A. French</td>
</tr>
<tr>
<td>Health Science</td>
<td>B.S. Health Sciences</td>
</tr>
<tr>
<td>Foundational Mathematics</td>
<td>B.A. Mathematics</td>
</tr>
<tr>
<td>Mathematics</td>
<td>B.S. Mathematics</td>
</tr>
<tr>
<td>Music</td>
<td>B.A. Music (Music Education)</td>
</tr>
<tr>
<td>Physical Education</td>
<td>B.S. Kinesiology</td>
</tr>
<tr>
<td>Sciences</td>
<td>B.A. in the Sciences</td>
</tr>
<tr>
<td>Social Science</td>
<td>B.A. Social Sciences</td>
</tr>
</tbody>
</table>

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;

12. 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, ESEC 550B and ESEC 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.

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.
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.

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundational Theories of Secondary Education</td>
<td></td>
</tr>
<tr>
<td>ESEC 405</td>
<td>Introduction to Secondary School Culture</td>
</tr>
<tr>
<td>ESEC 407</td>
<td>Secondary School Teaching</td>
</tr>
<tr>
<td>ESEC 410</td>
<td>Adolescent Development and Learning</td>
</tr>
<tr>
<td>ESEC 550A</td>
<td>Student Teaching Experience</td>
</tr>
</tbody>
</table>

(These courses must be taken concurrently)

<table>
<thead>
<tr>
<th>Second Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Perspectives</td>
</tr>
<tr>
<td>ESEC 413</td>
</tr>
<tr>
<td>ESEC 417</td>
</tr>
</tbody>
</table>

Select one of the following ESEC 506 courses:

| ESEC 506E | Curriculum and Instruction in the Content Areas: English | 4 |
| ESEC 506F | Curriculum and Instruction in the Content Areas: Foreign Language | 4 |
| ESEC 506L | Curriculum and Instruction in the Content Areas: Life and Physical Science | 4 |

<table>
<thead>
<tr>
<th>Third Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of Reflection on Instruction</td>
</tr>
<tr>
<td>ESEC 419</td>
</tr>
<tr>
<td>ESEC 514</td>
</tr>
<tr>
<td>ESEC 550C</td>
</tr>
<tr>
<td>ESEC 602</td>
</tr>
</tbody>
</table>

Total Units: 48

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

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 405</td>
<td>Introduction to Secondary School Culture</td>
</tr>
<tr>
<td>ESEC 410</td>
<td>Adolescent Development and Learning</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>ESEC 407</td>
<td>Secondary School Teaching</td>
</tr>
<tr>
<td>ESEC 413</td>
<td>Language Interaction in the Classroom</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ESEC 506E</td>
<td>Curriculum and Instruction in the Content Areas: English</td>
</tr>
<tr>
<td>ESEC 506F</td>
<td>Curriculum and Instruction in the Content Areas: Foreign Language</td>
</tr>
<tr>
<td>ESEC 506L</td>
<td>Curriculum and Instruction in the Content Areas: Life and Physical Science</td>
</tr>
<tr>
<td>ESEC 506M</td>
<td>Curriculum and Instruction in the Content Areas: Mathematics</td>
</tr>
<tr>
<td>ESEC 506P</td>
<td>Curriculum and Instruction in the Content Areas: Physical Education</td>
</tr>
<tr>
<td>ESEC 506S</td>
<td>Curriculum and Instruction in the Content Areas: Social Sciences</td>
</tr>
</tbody>
</table>

**Total Units: 48**

### 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

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.

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 passing the California Subject Examination for Teachers (CSET) and/or the Single Subject Assessment for Teaching (SSAT) in the content area in which the candidate is planning to teach.
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.

Application of 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 tuberculin examination within the last 24 months;
4. Academic Achievement
   a. Applicants must possess the following minimum grade point averages:
      i. 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;
      ii. 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 CTC 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.

<table>
<thead>
<tr>
<th>Single Subject Credential</th>
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</tr>
<tr>
<td>Social Science</td>
<td>B.S. in the Sciences</td>
</tr>
</tbody>
</table>

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

Optional Criteria

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;
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

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 405</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 407</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 555</td>
<td>2</td>
</tr>
<tr>
<td>ESEC 410</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 413</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Second Quarter

Select one of the following ESEC 506 courses:

| ESEC 506E | 4 |
| ESEC 506F | 4 |
| ESEC 506L | 4 |
| ESEC 506M | 4 |
| ESEC 506P | 4 |

### Third Quarter

| ESEC 417 | 4 |
| ESEC 419 | 4 |
| ESEC 556 | 2 |

### Second Year

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 512</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 570B</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Second Quarter

Students must successfully pass ESEC 512 before enrolling in these second quarter classes.

| ESEC 513 | 2 |
| ESEC 514 | 2 |
| ESEC 570C | 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, ESEC 513 and ESEC 514. Candidates are required to complete the Subject Specific Pedagogy Task independently after successful completion of ESEC 405, ESEC 407 and ESEC 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.
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. Four years of full-time credentialed experience, school-related nursing and/or counseling experience. A valid Clear 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);
6. Submission of a 2-page essay from the provided prompt.

Recommendation for the Credential

To be eligible to be recommended for the credential, a candidate must:

1. Complete the California Commission on Teacher Credentialing competencies dealing with mainstreaming of special education students;
2. Successfully complete all program requirements;
3. Obtain a recommendation from the program committee.

Credential Requirements (37 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EADM 601</td>
<td>Educational Leadership and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>EADM 607</td>
<td>Culture, Politics and Communication in Diverse Society</td>
<td>4</td>
</tr>
<tr>
<td>EADM 610</td>
<td>Supervision and Evaluation of Teachers</td>
<td>4</td>
</tr>
<tr>
<td>EADM 613</td>
<td>School Personnel Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 619</td>
<td>Policy, Governance and Legal Aspects of Education</td>
<td>4</td>
</tr>
<tr>
<td>EADM 620</td>
<td>Practicum in Educational Administration</td>
<td>1</td>
</tr>
<tr>
<td>EADM 622</td>
<td>Curriculum, Instruction and Assessment</td>
<td>4</td>
</tr>
<tr>
<td>EADM 625</td>
<td>School Finance and Business Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 626A</td>
<td>Issues and Trends in School Administration: School Reform</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626B</td>
<td>Issues and Trends in School Administration: Common Core Standards</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626C</td>
<td>Issues and Trends in School Administration: S.T.E.M. Programs</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626D</td>
<td>Issues and Trends in School Administration: Special Education</td>
<td>1</td>
</tr>
<tr>
<td>EADM 621A</td>
<td>Fieldwork in Educational Administration I</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: Students must see program coordinator/advisor for recommended sequence of program.
Administrative Services
Preliminary (Internship) Credential

Requirements (37 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary (Internship) Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A 3.0 (“B”) grade point average in all coursework taken in education;
3. Completion of the graduate entrance writing requirement;
4. Verification of five years full-time years of teaching, counseling, or other certified work;
5. A valid clear teaching, pupil personnel or health services credential or full-time designated subject credential (with B.A.);
6. A contract between the student and the appropriate school board defining the administrative position;
7. Students must enroll in EADM 630 each quarter they remain in the program and complete the program within two years;
8. The internship credential from the Commission for Teacher Credentialing.

Recommendation for the Credential

Recommendation to be recommended for the administrative services preliminary credential, a candidate must:

1. Successfully complete the regular program for the Preliminary Administrative Services Credential.

Credential Requirements (37 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EADM 601</td>
<td>Educational Leadership and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>EADM 607</td>
<td>Culture, Politics and Communication in Diverse Society</td>
<td>4</td>
</tr>
<tr>
<td>EADM 610</td>
<td>Supervision and Evaluation of Teachers</td>
<td>4</td>
</tr>
<tr>
<td>EADM 613</td>
<td>School Personnel Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 619</td>
<td>Policy, Governance and Legal Aspects of Education</td>
<td>4</td>
</tr>
<tr>
<td>EADM 620</td>
<td>Practicum in Educational Administration</td>
<td>1</td>
</tr>
<tr>
<td>EADM 622</td>
<td>Curriculum, Instruction and Assessment</td>
<td>4</td>
</tr>
<tr>
<td>EADM 625</td>
<td>School Finance and Business Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 626A</td>
<td>Issues and Trends in School Administration: School Reform</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626B</td>
<td>Issues and Trends in School Administration: Common Core Standards</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626C</td>
<td>Issues and Trends in School Administration: S.T.E.M. Programs</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626D</td>
<td>Issues and Trends in School Administration: Special Education</td>
<td>1</td>
</tr>
<tr>
<td>EADM 630A</td>
<td>Internship Fieldwork in Educational Administration</td>
<td>2</td>
</tr>
<tr>
<td>EADM 630B</td>
<td>Internship Fieldwork in Educational Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 37

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 clear Preliminary Services Credential;
3. Verification of current employment in an administrative position;
4. A 3.0 (“B”) grade point average in all graduate work;
5. Verification of a Master’s Degree in a related field;

Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. Effective July 13, 2013, students must have five (5) years of full-time administrative experience in the public schools, or private schools or equivalent;
2. Completed all program requirements while employed in a full-time school administrative position.

Credential Requirements (8-18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EADM 681</td>
<td>Vision and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EADM 682</td>
<td>Culture for Student Learning and Professional</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Growth</td>
<td></td>
</tr>
<tr>
<td>EADM 683</td>
<td>Organization and Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>EADM 684</td>
<td>Collaboration with Diverse Families and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communities</td>
<td></td>
</tr>
<tr>
<td>EADM 685</td>
<td>Leadership Capacity and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>EADM 686</td>
<td>Factors of School Context</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

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 an independent study with a designated faculty member. This option is available only at the discretion of the program coordinator.
Education Specialist Clear Credential

Requirements (16 units)

Admission to the Program

The Education Specialist Clear Credential has been developed in compliance with the changes required by the Commission on Teacher Credentialing (CTC). In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Education Specialist Clear Credential Program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Education Specialist Credential;
3. Application to the Education Specialist Clear Credential Program.
   Applications can be obtained from the Special Education Student Services Office, CE-102. (909)-537-7406.

Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Education Specialist Clear Credential:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Education Specialist Clear Credential Courses (16 units). All courses will be offered online.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 634</td>
<td>Reflective Inquiry: Seminar for Clear Induction Planning</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 636</td>
<td>Assessment, Curriculum, Instruction: Culturally/Linguistically Diverse Students with Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 695</td>
<td>Special Education Clear Induction Outcomes</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 696A</td>
<td>Induction Support I</td>
<td>2</td>
</tr>
<tr>
<td>ESPE 696B</td>
<td>Induction Support II</td>
<td>1</td>
</tr>
<tr>
<td>ESPE 696C</td>
<td>Induction Support III</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units: 16
Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

Requirements (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: Mild/Moderate Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;
3. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications can be obtained from the Special Education Office, CE-102, (909) 537-7406.

Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):
   - HSCI 332 Health Education in the Elementary School 4
   - HSCI 540 School Health Programs and 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 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 640</td>
<td>The Education of K-12 English Language Learners</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 633</td>
<td>Reflective Inquiry Seminar and Induction Plan</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 635</td>
<td>Effective Communication with Professionals and Families</td>
<td>4</td>
</tr>
</tbody>
</table>
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;
3. Application to ESPE 633. Applications are available in the Special Education Office, CE-102, (909) 537-7406.

Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):
   - HSCI 332  Health Education in the Elementary School  4
   - HSCI 540  School Health Programs and 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-":

- EELB 640  The Education of K-12 English Language Learners  4
- ESPE 633  Reflective Inquiry Seminar and Induction Plan  4
- ESPE 635  Effective Communication with Professionals and Families  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 Programs and 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 640</td>
<td>The Education of K-12 English Language Learners</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 633</td>
<td>Reflective Inquiry Seminar and Induction Plan</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 635</td>
<td>Effective Communication with Professionals and Families</td>
<td>4</td>
</tr>
</tbody>
</table>
Pupil Personnel Services Credential: School Counseling

Requirements (74 units)
The program for the Pupil Personnel Services Credential is designed to fulfill all the requirements for the State of California to counsel in grades K-12. This 74-unit credential program is designed for students who do not wish to enroll in the M.S. in Counseling and Guidance program that prepares students to apply for the LPCC license but who do wish to obtain a credential to practice as a school counselor.

Admission to the Program
In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Attend a Counseling Program 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. A 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 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 the reasons.

Recommendation for the Credential
In order to be recommended for a credential, the student must have:

1. A minimum of 74 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 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 demonstrated by completion of the Student Outcome Assessment Professional Portfolio.

Credential requirements (68 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 531</td>
<td>Introduction to Counseling</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 619</td>
<td>Appraisal Procedures in Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 632</td>
<td>Advanced Psychological Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 633</td>
<td>Human Development for Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 650</td>
<td>Career Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 651</td>
<td>Professional School Counselor</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 654</td>
<td>Legal and Ethical Issues in Counseling and Guidance</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 655</td>
<td>Multicultural Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 656</td>
<td>Counseling Theories</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 657A</td>
<td>Counseling Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 657B</td>
<td>Advanced Counseling Practice</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 658</td>
<td>Family Consultation</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 667</td>
<td>Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 678</td>
<td>Group Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 679</td>
<td>Counseling Field Experience (four times for a total of 16)</td>
<td>16</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>74</td>
</tr>
</tbody>
</table>
Pupil Personnel Services Credential: School Psychology

Requirements (97 units)

The School Psychology program at California State University, San Bernardino provides professional preparation for the Pupil Personnel Services Credential with Specialization in School Psychology. This program is designed to meet the mandates for the Pupil Personnel Services Credential in School Psychology (PPS) established by the California Commission on Teacher Credentialing (CCTC). The program is also designed to meet the national accreditation standards of the National Association of School Psychologists (NASP) as adopted in 1984-1985 and revised in 2001.

The School Psychologist Credential program is a 51-quarter unit sequence of training designed for professionals who already possess a master's or doctoral degree in Educational Counseling, Psychology, Special Education, Education, Marriage/Family Therapy, and Social Work, or are in the final stages of training for such a discipline (e.g. final year of coursework, thesis to complete, etc.). Students must complete the common, standard courses (46 units) as well as the school psychology specialization standards courses (51 units). The sequence also includes a 1200-hour internship in a school setting.

Students who have graduated from CSU, San Bernardino with an M.S. in Counseling and Guidance degree will have already taken the common, standard coursework as part of their program. Candidates from other programs and universities will have transcripts individually evaluated to ascertain how thoroughly previous graduate work complies with the common and generic standards which are required by the state for certification. Previous course work will be substituted with appropriate verification using transcripts and course catalog descriptions from the college or university where this course work was completed. Students admitted to the School Psychology Credential Program will design a two-year schedule with their advisor to make up any course work needed to comply with the common and generic standards for the Pupil Personnel Services Credential as well as advanced coursework (51-unit sequence) which meets the state standards for school psychology specialization. Included in this sequence are 1200 hours of internship in a school setting (K-12) which are accrued year round. Students must have evidence of completing 450 clock hours of practica prior to beginning 1200 hours of internship. Supervision is provided on site a minimum of two hours per week by a credentialed school psychologist with at least three years of experience in the field. The student is also supervised on the university site two hours per week by a university faculty member during the internship. If a student intends to obtain a paid internship in school psychology, they must apply for the internship credential from the Credentials Office following the first year of study.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the PPS in School Psychology are:

1. Admission and acceptance to CSU, San Bernardino;
2. Current vitae resume;
3. Current sealed transcript which verifies an M.A., M.S. or Ph.D. in Counseling or a related field;
4. Writing sample (include an APA-style graduate level paper which indicates the applicant's competency in writing);
5. Application and personal statement;
6. 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 (97 units)

Common Standard Courses (46)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 619</td>
<td>Appraisal Procedures in Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 632</td>
<td>Advanced Psychological Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 633</td>
<td>Human Development for Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 654</td>
<td>Legal and Ethical Issues in Counseling and Guidance</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 655</td>
<td>Multicultural Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 656</td>
<td>Counseling Theories</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 657A</td>
<td>Counseling Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 658</td>
<td>Family Consultation</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 678</td>
<td>Group Counseling</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 679</td>
<td>Counseling Field Experience (150 hours)</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 696</td>
<td>Special Topics in Counselor Education</td>
<td>2</td>
</tr>
</tbody>
</table>

School Psychology Specialization Standards (51)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 647</td>
<td>Individual Testing and Case Study Techniques I</td>
<td>5</td>
</tr>
<tr>
<td>ECLG 648</td>
<td>Individual Testing and Case Study Techniques II</td>
<td>5</td>
</tr>
<tr>
<td>ECLG 649</td>
<td>Ecological Assessment and Case Study Techniques</td>
<td>5</td>
</tr>
<tr>
<td>ECLG 660</td>
<td>Seminar in Child/Adolescent Psychopathology and Treatment</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>ECLG 686</td>
<td>School Psychology Practicum (in consultation with credential coordinator)</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 687</td>
<td>School Psychologists as Change Agents: Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 688</td>
<td>Advanced Behavioral Intervention and School Consultation</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 689A</td>
<td>Seminar/Internship in School Psychology</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 689B</td>
<td>Seminar/Internship in School Psychology</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 689C</td>
<td>Seminar/Internship in School Psychology</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 689D</td>
<td>Seminar/Internship in School Psychology</td>
<td>4</td>
</tr>
<tr>
<td>ECLG 693</td>
<td>Special Topics in School Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 97
Reading and Literacy Leadership 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 and Literacy Leadership Specialist Credential program requires the following:

1. A valid California teaching credential with an English learner authorization; or a clear, full-time designated subjects teaching credential with an English learner authorization, and at least one year of full-time teaching experience;
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 the following:
   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 and Literacy 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;
4. Obtain a letter of recommendation from the coordinator of the program.

Credential Requirements (48 units)

<table>
<thead>
<tr>
<th>Level I: Reading and Literacy Certificate (24)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERDG 619</td>
</tr>
<tr>
<td>ERDG 626</td>
</tr>
<tr>
<td>ERDG 627</td>
</tr>
<tr>
<td>ERDG 636</td>
</tr>
<tr>
<td>ERDG 637</td>
</tr>
<tr>
<td>ERDG 639</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level I: to be taken upon completion of all courses in Level I (24)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERDG 646</td>
</tr>
<tr>
<td>ERDG 647</td>
</tr>
<tr>
<td>ERDG 649</td>
</tr>
<tr>
<td>ERDG 656</td>
</tr>
<tr>
<td>ERDG 657</td>
</tr>
</tbody>
</table>

| ERDG 659 | Field Work for the Reading and Literacy Specialists | 4 |
| Total Units | 48 |
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. A BSN or BS in a related field and CA PHN certification;
5. An Audiometry course, such as HSCI 374 (offered through the College of Extended Learning).

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 617</td>
<td>Epidemiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 502</td>
<td>Advanced Physical/Health Assessment of Children and Adolescents</td>
<td>4</td>
</tr>
<tr>
<td>NURS 503</td>
<td>Principles of School Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 600</td>
<td>Population Health Assessment</td>
<td>6</td>
</tr>
<tr>
<td>NURS 610</td>
<td>Program Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Health Policy Leadership</td>
<td>6</td>
</tr>
<tr>
<td>NURS 630</td>
<td>Advanced Nursing Roles</td>
<td>3</td>
</tr>
<tr>
<td>NURS 645</td>
<td>Advanced Nursing Research</td>
<td>4</td>
</tr>
<tr>
<td>NURS 655</td>
<td>Advanced Nursing Theory</td>
<td>4</td>
</tr>
<tr>
<td>NURS 658</td>
<td>Nursing Education: Curriculum and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>NURS 688</td>
<td>Advanced Role Practicum</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 51

Special Teaching Authorization in Health (STAH)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 659</td>
<td>Assessment and Evaluation in Nursing Education</td>
<td>4</td>
</tr>
<tr>
<td>NURS 660</td>
<td>Instructional Technology in Nursing Education</td>
<td>4</td>
</tr>
<tr>
<td>NURS 681</td>
<td>Advanced Public/Community Health Internship I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 682</td>
<td>Advanced Public/Community Health Internship II</td>
<td>3</td>
</tr>
</tbody>
</table>

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 Program

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS 508</td>
<td>Organization and Structure of Career and Technical Programs</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 509</td>
<td>Personnel Management in Career and Technical Programs</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 510</td>
<td>Field Work in Coordination and Supervision of Career and Technical Programs</td>
<td>4</td>
</tr>
</tbody>
</table>

Successful completion of the California Basic Educational Skills Test (CBEST).

Total Units 12
Certificate in Crosscultural, Language and Academic Development (CLAD)

Requirements (18 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Admission to the Program

1. Postbaccalaureate standing;
2. Completion of a single subject or multiple subject teaching credential or the equivalent.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELB 312</td>
<td>Family, Culture and Schooling</td>
<td>4</td>
</tr>
<tr>
<td>or EESL 536</td>
<td>Crosscultural Teaching</td>
<td></td>
</tr>
<tr>
<td>EELB 313</td>
<td>Pedagogical Foundations for English Language Learners</td>
<td>4</td>
</tr>
<tr>
<td>or ESEC 333</td>
<td>Curriculum and Instruction for a Diverse Society</td>
<td></td>
</tr>
<tr>
<td>ESEC 511</td>
<td>Theory and Practice for English Language Development (ELD)</td>
<td>4</td>
</tr>
<tr>
<td>EELB 605</td>
<td>Curriculum for Specially Designed Academic Instruction in English (SDAIE)</td>
<td>2</td>
</tr>
<tr>
<td>or ESEC 605</td>
<td>Curriculum for Specially Designed Academic Instruction in English (SDAIE)</td>
<td></td>
</tr>
<tr>
<td>EELB 680</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>4</td>
</tr>
<tr>
<td>or ESEC 680</td>
<td>Practicum in Teaching English as a Second Language</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 18
Certificate in E-Learning

Requirements (16 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 501</td>
<td>Foundations of e-Learning</td>
<td>1</td>
</tr>
<tr>
<td>ETEC 541</td>
<td>E-Learning Design and Development</td>
<td>1</td>
</tr>
<tr>
<td>ETEC 674</td>
<td>E-Learning Technology and Media</td>
<td>1</td>
</tr>
<tr>
<td>ETEC 648</td>
<td>E-Learning Delivery and Evaluation</td>
<td>1</td>
</tr>
<tr>
<td>ETEC 692</td>
<td>Practicum in Educational Technology</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units: 16
Certificate in Education

Requirements (24 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

<table>
<thead>
<tr>
<th>Lower division requirement (4)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 250 Democracy and Education</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper division requirements (20)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Twenty units chosen from:</td>
<td>20</td>
</tr>
<tr>
<td>EDUC 310 Education and Contemporary Culture</td>
<td></td>
</tr>
<tr>
<td>EDUC 320 Diversity in Education</td>
<td></td>
</tr>
<tr>
<td>EDUC 330 Education and Special Populations</td>
<td></td>
</tr>
<tr>
<td>EDUC 340 Social Class, Poverty, and Education</td>
<td></td>
</tr>
<tr>
<td>EDUC 350 History of Schooling</td>
<td></td>
</tr>
<tr>
<td>EDUC 360 Education for Peace and Nonviolence</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 24
Certificate in Education of the Gifted and Talented

Requirements (20 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 536</td>
<td>Social-Emotional Development of the Gifted and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Talented</td>
<td></td>
</tr>
<tr>
<td>EDCI 540</td>
<td>Differentiated Curriculum and Instruction</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Creativity, Thinking and Problem Solving</td>
<td></td>
</tr>
<tr>
<td>EDCI 543</td>
<td>Creativity, Thinking and Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 538</td>
<td>Introduction to Teaching the Gifted and Talented</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 539</td>
<td>Programs for Teaching the Gifted and Talented</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>
Certificate in Educational Technology

Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETEC 500</td>
<td>Foundations in Instructional Education</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 543</td>
<td>Technology and Learning I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 544</td>
<td>Design and Development of Instructional Materials I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 546</td>
<td>Computer Based Technology in Education II</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 676D</td>
<td>Advanced Topics in Instructional Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 125</td>
<td>Programming in Visual Basic</td>
</tr>
<tr>
<td>ETEC 644</td>
<td>Design and Development of Instructional Materials II</td>
</tr>
<tr>
<td>ETEC 676B-G</td>
<td>Advanced Topics in Instructional Technology</td>
</tr>
<tr>
<td>MUS 519</td>
<td>Audio Production</td>
</tr>
</tbody>
</table>

Total Units 28
Certificate in Environmental Education

Requirements (18 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Admission to the Program

1. Postbaccalaureate standing and regularly matriculated;
2. Valid teaching credential or teaching experience or related experience.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 635</td>
<td>Environmental Education in the Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>EENV 636</td>
<td>Teaching Current Environmental Issues</td>
<td>2</td>
</tr>
<tr>
<td>EENV 642</td>
<td>Developing the Curriculum through Outdoor Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 643</td>
<td>Community Resources for Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EENV 620</td>
<td>Using Children's Literature to Teach Environmentally</td>
<td></td>
</tr>
<tr>
<td>EENV 644D</td>
<td>Seminar in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 650</td>
<td>Selected Topics in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 651</td>
<td>Historical and Contemporary Readings in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 652</td>
<td>Nature Study in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 654</td>
<td>Fundraising Fundamentals in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 656</td>
<td>Water Education in Environmental Education</td>
<td></td>
</tr>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 18
Certificate in Gender and Sexuality Studies

Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate requirements

Twenty-eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 333</td>
<td>Sex and Gender in Cross-Cultural Perspective</td>
</tr>
<tr>
<td>ANTH 380</td>
<td>Gender and Language</td>
</tr>
<tr>
<td>ART 305</td>
<td>Women and Art</td>
</tr>
<tr>
<td>BIOL 314</td>
<td>Biology of Human Sexuality</td>
</tr>
<tr>
<td>COMM 364</td>
<td>Topics in Human and Organizational Communication</td>
</tr>
<tr>
<td>COMM 401</td>
<td>Gender, Race and Media</td>
</tr>
<tr>
<td>COMM 411</td>
<td>Gender and Communication</td>
</tr>
<tr>
<td>COMM 511</td>
<td>Feminist Contributions to Communication Theories</td>
</tr>
<tr>
<td>COMM 550</td>
<td>Muslim Women in Media and Society</td>
</tr>
<tr>
<td>CJUS 451</td>
<td>Women and Crime</td>
</tr>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
</tr>
<tr>
<td>ECON 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
</tr>
<tr>
<td>or GSS 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
</tr>
<tr>
<td>ENG 319</td>
<td>Studies in Literary Diversity (Gay Literature)</td>
</tr>
<tr>
<td>ENG 391</td>
<td>Studies in Literary Diversity (Lesbian Literature)</td>
</tr>
<tr>
<td>ENG 321</td>
<td>Studies in Language and Linguistics (Language and Gender)</td>
</tr>
<tr>
<td>ENG 336</td>
<td>Women Writers</td>
</tr>
<tr>
<td>or GSS 336</td>
<td>Women Writers</td>
</tr>
<tr>
<td>FLAN 320</td>
<td>Masterpieces of Literature</td>
</tr>
<tr>
<td>FREN 336</td>
<td>Francophone Women Writers</td>
</tr>
<tr>
<td>GSS 100</td>
<td>Introduction to Women’s Studies</td>
</tr>
<tr>
<td>GSS 101</td>
<td>Introduction to Masculinity Studies</td>
</tr>
<tr>
<td>GSS 103</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgendered Studies</td>
</tr>
<tr>
<td>GSS 300</td>
<td>Feminist Research Methods</td>
</tr>
<tr>
<td>GSS 390</td>
<td>Topics in Gender and Sexuality Studies</td>
</tr>
<tr>
<td>GSS 420</td>
<td>Feminist Theory</td>
</tr>
<tr>
<td>GSS 425</td>
<td>Women as Agents of Social Change</td>
</tr>
<tr>
<td>GSS 450</td>
<td>Queer Theory</td>
</tr>
<tr>
<td>GSS 575B-D</td>
<td>Internship in Gender and Sexuality Programs and Services (for a total of 4 units)</td>
</tr>
<tr>
<td>GSS 595B-E</td>
<td>Independent Study (for a total of 8 units)</td>
</tr>
<tr>
<td>HSCI 310</td>
<td>Health and Human Sexuality</td>
</tr>
<tr>
<td>HSCI 404</td>
<td>Womens Health Issues</td>
</tr>
<tr>
<td>HSCI 405</td>
<td>Health Issues of Men</td>
</tr>
<tr>
<td>HIST 344</td>
<td>Women in U.S. History, 1620-1865</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Women in U.S. History, 1865-Present</td>
</tr>
<tr>
<td>HUM 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>or NSCI 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>or SSCI 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>PHIL 367</td>
<td>Gender and Philosophy</td>
</tr>
<tr>
<td>PSCI 340</td>
<td>Sex and Politics</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Psychology of Human Sexuality</td>
</tr>
<tr>
<td>PSYC 331</td>
<td>The Psychology of Women</td>
</tr>
<tr>
<td>PSYC 341</td>
<td>Women and Violence</td>
</tr>
<tr>
<td>PSYC 349</td>
<td>The Psychology of Gays and Lesbians</td>
</tr>
<tr>
<td>SOC 336</td>
<td>Black Women and Feminism</td>
</tr>
<tr>
<td>SOC 444</td>
<td>Sociology of Gender</td>
</tr>
<tr>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
</tr>
<tr>
<td>TA 466</td>
<td>Issues in Gay, Lesbian, Bisexual, and Transgendered Theatre</td>
</tr>
</tbody>
</table>

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.

Total Units: 32
Certificate in Holistic and Integrative Education

Requirements (24 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Admission to the Program

1. Postbaccalaureate standing;
2. Interview with program coordinator of the M.A. in Education, Holistic and Integrative Education.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 611</td>
<td>Foundations of Integrative and Holistic Models of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 613</td>
<td>Integration and Meaning in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 615</td>
<td>Exploring Arts, Creativity and Sign Systems</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 617</td>
<td>Exploring Integrative and Holistic Curriculum Theory</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 619</td>
<td>Seminar Holistic Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 621</td>
<td>Assessment and Research: Holistic Perspectives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>
Certificate in Reading and Literacy

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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 teaching credential with an English learner authorization; or a clear, full-time designated subjects teaching credential with an English learner authorization, and at least one year of full-time teaching experience;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master’s Program Office) which includes information to complete:
   a. Program application;
   b. Letter of interest which includes experiences working with diverse populations;
   c. Three letters of recommendation: one from the candidate’s school principal, and two from other district professionals who can speak to the strengths of the applicant’s personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading and Literacy Coordinator to complete the program plan.

Recommendation for the Certificate

In order to be recommended for the certificate, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 (“B”) or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

Certificate Requirements (24 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERDG 619</td>
<td>Literacy Assessment and Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 626</td>
<td>Foundations of Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 627</td>
<td>Literacy and Language Processes</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 636</td>
<td>Critical Approaches to a Culture of Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 637</td>
<td>Basic Materials and approaches to Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 649</td>
<td>Assessment and Intervention in PreK-12 Literacy</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 24

* Note: This course is the prerequisite for all courses in the program.
Certificate in School Business Management

Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESBM 311</td>
<td>School Business Management</td>
<td>4</td>
</tr>
<tr>
<td>ESBM 312</td>
<td>School Finance and Budgeting</td>
<td>4</td>
</tr>
<tr>
<td>ESBM 313</td>
<td>School Accounting and Fiscal Operations</td>
<td>4</td>
</tr>
<tr>
<td>ESBM 314</td>
<td>Business Support and Service Operations; Purchasing Warehousing and Inventory</td>
<td>2</td>
</tr>
<tr>
<td>ESBM 315</td>
<td>Facilities Planning, Construction and Risk Management</td>
<td>2</td>
</tr>
<tr>
<td>ESBM 316</td>
<td>School Maintenance, Operations and Transportation</td>
<td>2</td>
</tr>
<tr>
<td>ESBM 317</td>
<td>Legal Aspects of Classified Personnel Administration</td>
<td>4</td>
</tr>
<tr>
<td>ESBM 318</td>
<td>Classified Personnel Administration and Supervision</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESBM 320</td>
<td>Fieldwork in School Business Management</td>
</tr>
</tbody>
</table>

Total Units 28
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)
EDUC 250  Democracy and Education  4

Upper division requirements (20)
Twenty units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 310</td>
<td>Education and Contemporary Culture</td>
</tr>
<tr>
<td>EDUC 320</td>
<td>Diversity in Education</td>
</tr>
<tr>
<td>EDUC 330</td>
<td>Education and Special Populations</td>
</tr>
<tr>
<td>EDUC 340</td>
<td>Social Class, Poverty, and Education</td>
</tr>
<tr>
<td>EDUC 350</td>
<td>History of Schooling</td>
</tr>
<tr>
<td>EDUC 360</td>
<td>Education for Peace and Nonviolence</td>
</tr>
</tbody>
</table>

Total Units 24
### Minor in Gender and Sexuality Studies

**Requirements (28 units)**

#### Requirements for a minor in Gender and Sexuality Studies

Eight units chosen from:  
- GSS 100 Introduction to Women's Studies  
- GSS 101 Introduction to Masculinity Studies  
- GSS 103 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Sixteen units chosen from:  
- ANTH 333 Sex and Gender in Cross-Cultural Perspective  
- ANTH 380 Gender and Language  
- ART 305 Women and Art  
- BIOL 314 Biology of Human Sexuality  
- COMM 364 Topics in Human and Organizational Communication (when the topic is Gay/Lesbian Relationships)  
- COMM 401 Gender, Race and Media  
- COMM 411 Gender and Communication  
- COMM 511 Feminist Contributions to Communication Theories  
- COMM 550 Muslim Women in Media and Society  
- CJUS 451 Women and Crime  
- CJUS 462 Domestic Violence and the Criminal Justice System  
- ECON 333 Political Economy of Women: Money, Sex, Race, and Power  
- ECON 357 Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People  
- ENG 319 Studies in Literary Diversity (Gay Literature)  
- ENG 319 Studies in Literary Diversity (Lesbian Literature)  
- ENG 321 Studies in Language and Linguistics  
- ENG 336 Women Writers  
- FREN 336 Francophone Women Writers  
- FLAN 320 Masterpieces of Literature  
- GSS 100 Introduction to Women's Studies (if not taken in category above)  
- GSS 101 Introduction to Masculinity Studies (if not taken in category above)  
- GSS 103 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (if not taken in category above)  
- GSS 300 Feminist Research Methods  
- GSS 390 Topics in Gender and Sexuality Studies  
- GSS 420 Feminist Theory  
- GSS 425 Women as Agents of Social Change  
- GSS 450 Queer Theory  
- GSS 575B-D Internship in Gender and Sexuality Programs and Services (for a total of 4 units)  
- GSS 595B-E Independent Study (for a total of 8 units)  
- HSCI 310 Health and Human Sexuality  
- HSCI 404 Women's Health Issues  
- HSCI 405 Health Issues of Men  
- HIST 344 Women in U.S. History, 1620-1865  
- HIST 345 Women in U.S. History, 1865-Present  
- PHIL 367 Gender and Philosophy  
- PSCI 340 Sex and Politics  
- PSYC 301 Psychology of Human Sexuality  
- PSYC 331 The Psychology of Women  
- PSYC 341 Women and Violence  
- PSYC 349 The Psychology of Gays and Lesbians  
- SOC 336 Black Women and Feminism  
- SOC 444 Sociology of Gender  
- SOC 590 Seminar in Sociology  
- TA 466 Issues in Gay, Lesbian, Bisexual, and Transgender Theatre

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.

Four units chosen from:  
- HUM 325 Perspectives on Gender  
- NSCI 325 Perspectives on Gender  
- SSCI 325 Perspectives on Gender

Total Units: 28
Department of Educational Leadership and Curriculum

Department of Educational Leadership and Curriculum

College of Education Building, Room 374, (909) 537-7404
Department of Educational Leadership and Curriculum website (http://www.csusb.edu/coe/departments/elc)

Masters

• Curriculum and Instruction
• Educational Administration

Graduate Degrees

Master of Arts

• Curriculum and Instruction (p. 542)
• Educational Administration (p. 543)

Master of Arts in Education - Curriculum and Instruction Option

The M.A. in education with an option in curriculum and instruction is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

Requirements (46 units)

Admission to the Program

In addition to the general requirements of the university specific requirements for admission to classified graduate status are:

1. A valid teaching credential or one year of teaching experience;
2. A 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 EDUC 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)
   EDCI 663 Comprehensive Evaluation in Curriculum and Instruction 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 EDCI 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 in Graduate Degree and Program Requirements (p. 60).

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)
EDUC 603 Effective Communication in Education 4
EDUC 605 Foundations of Education 4
EDUC 607 Introduction to Educational Research 4

Curriculum and Instruction Core (12)
EDCI 620 School Curriculum 4
EDCI 624 Advanced Teaching Methodology 4

EDCI 628 Educational Assessment in K-12 Schools 4

Emphasis Area (12)
Twelve units chosen from:
   EDCI 540 Differentiated Curriculum and Instruction Creativity, Thinking and Problem Solving
   EDCI 633 History of Education in the United States
   EDCI 634 Contemporary Issues in Social Studies
   EDCI 645 Academic Language Development Strategies K-12
   ERDG 649 Assessment and Intervention in PreK-12 Literacy

Electives (8)
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
   EDCI 633 History of Education in the United States
   EELB 532 Science/Health Curriculum and Pedagogy
   ERLB 533 Social Studies and the Arts Curriculum Pedagogy
   EECB 534 Social Studies and the Arts (Primary Language), Curriculum and Pedagogy
   ESEC 413 Language Interaction in the Classroom
   ESEC 419 Literacy Across the Curriculum
   ESEC 447 Curriculum and Instruction in the Content Areas:
   ESEC 450E,F,L,M,P,S

May choose only one of the following courses taken as post-baccalaureate as an appropriate single subject matter course chosen in consultation with an advisor:
   ART 499 Art Education: Methods and Materials
   MUS 411 Teaching Music in Secondary Schools

Culminating Experience (2)
EDCI 663 Comprehensive Evaluation in Curriculum and Instruction 2
EDCI 999 Comprehensive Examination 0

Total Units 46

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; substitute teaching does not apply;
5. Successful completion of the California Basic Educational Skills Test (CBEST);
6. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program. Normally, a student is expected to be working concurrently for a credential in administrative services.

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 in Graduate Degree and Program Requirements (p. 60).

**Degree Requirements (45 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EADM 601</td>
<td>Educational Leadership and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>EADM 602</td>
<td>Research Methods in Educational Administration</td>
<td>4</td>
</tr>
<tr>
<td>EADM 607</td>
<td>Culture, Politics and Communication in Diverse Society</td>
<td>4</td>
</tr>
<tr>
<td>EADM 610</td>
<td>Supervision and Evaluation of Teachers</td>
<td>4</td>
</tr>
<tr>
<td>EADM 613</td>
<td>School Personnel Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 619</td>
<td>Policy, Governance and Legal Aspects of Education</td>
<td>4</td>
</tr>
<tr>
<td>EADM 620</td>
<td>Practicum in Educational Administration</td>
<td>1</td>
</tr>
<tr>
<td>EADM 622</td>
<td>Curriculum, Instruction and Assessment</td>
<td>4</td>
</tr>
<tr>
<td>EADM 625</td>
<td>School Finance and Business Management</td>
<td>4</td>
</tr>
<tr>
<td>EADM 626A</td>
<td>Issues and Trends in School Administration: School Reform</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626B</td>
<td>Issues and Trends in School Administration: Common Core Standards</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626C</td>
<td>Issues and Trends in School Administration: S.T.E.M. Programs</td>
<td>1</td>
</tr>
<tr>
<td>EADM 626D</td>
<td>Issues and Trends in School Administration: Special Education</td>
<td>1</td>
</tr>
</tbody>
</table>

Four units chosen from:

- EADM 621A | Fieldwork in Educational Administration I |
- EADM 621B | Fieldwork in Educational Administration I |
- EADM 630A | Internship Fieldwork in Educational Administration |
- EADM 630B | Internship Fieldwork in Educational Administration |

Culminating Experience. Students must choose either Comprehensive Examination or Thesis:

- Comprehensive Examination:
  - EADM 692 | Comprehensive Evaluation in Educational Administration |
  - EADM 999 | Comprehensive Examination in Education Administration |

- Thesis:
  - EADM 699 | Masters Thesis in Educational Administration |

Total Units: 45
Department of Educational Psychology and Counseling

Department of Educational Psychology and Counseling

College of Education Building, Room 243, (909) 537-5606

Department of Educational Psychology and Counseling website (http://coe.csusb.edu/programs/rehabCounseling)

Masters

• Educational Counseling
• Holistic and Integrative Education
• Rehabilitation Counseling
• Special Education

Certificate

Rehabilitation Counseling

Graduate Degrees

Masters

• Master of Arts in Education - Holistic and Integrative Education Option (p. 545)
• Master of Arts in Rehabilitation Counseling (p. 548)
• Master of Arts in Education - Special Education Option (p. 546)

Certificate

• Counseling (p. 550)
• Rehabilitation Counseling (http://bulletin.csusb.edu/colleges-schools-departments/education/educational-psychology-counseling/rehabilitation-counseling-certificate)

Master of Arts in Education - Holistic and Integrative Education Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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.

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 project proposal and the project must be approved by the student’s advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Degree Requirements (48 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>Cohort courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC 611</td>
<td>Foundations of Integrative and Holistic Models of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 613</td>
<td>Integration and Meaning in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 615</td>
<td>Exploring Arts, Creativity and Sign Systems</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 617</td>
<td>Exploring Integrative and Holistic Curriculum Theory</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 619</td>
<td>Seminar Holistic Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 621</td>
<td>Assessment and Research: Holistic Perspectives</td>
<td>4</td>
</tr>
</tbody>
</table>

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. Students must complete one of the categories below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 600</td>
<td>Masters Degree</td>
</tr>
<tr>
<td></td>
<td>Eight units of individually selected coursework, approved by the program coordinator.</td>
</tr>
<tr>
<td>EDUC 999</td>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td></td>
<td>Twelve units of individually selected coursework, approved by the program coordinator.</td>
</tr>
</tbody>
</table>

Total Units 48

Master of Arts in Education - Special Education Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 holist 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency
Based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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 her/his 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.

### Requirements (48 units)

The Special Education Program recommends that all students pursuing the M.A. in Education, Special Education Option be enrolled concurrently in an Educational Specialist Credential program. Students pursuing only the M.A. degree must have permission from their faculty advisor.

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified status are:

1. Application and official admission to the university for the M.A. in Education, Special Education Option;
2. Completion of prerequisite courses ESPE 530 and ESPE 531 with grades of “B” or better;
3. Two 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;
4. Personal Academic Statement describing candidate’s purpose for graduate education program and preparation for graduate study in special education;
5. Applicants must meet 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;
6. Applicants must possess a minimum grade point average of at least 2.75 from all baccalaureate and post baccalaureate course work or at least 3.0 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/Moderate/Severe, or Autism Spectrum Disorders);
2. Secured approval of candidacy from the College of Education;
3. 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 coursework. Students will not be permitted to take the comprehensive examination in the same quarter they are advanced to candidacy.

### Requirements for Graduation

In addition to requirements listed in Graduate Degree and Program Requirements (p. 60), candidates must meet the following requirements for graduation:

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;

   **Note:** The program may not include more than 13 quarter units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution which will not accept that work towards its own advanced degree program.

2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;

3. Successful completion of the project/thesis and/or comprehensive examination to meet the university graduation writing requirement.

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. The project proposal and the project must be approved by the student’s project advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

The comprehensive examination is of an integrative nature and is designed to test the student’s knowledge of a specific field, rather than subject matter of courses taken. The examination is offered once each quarter. The student may enroll in the examination no earlier than the
last quarter in which course work is taken. The student must complete a
graduation check with the Office of Records, Registration and Evaluations
before permission to take the examination can be granted. Students who
do not receive a passing score may petition the College of Education
to retake the examination or any part of it. Students who do not receive
a passing score the second time must petition the Dean of Graduate
Studies to take it again. Approval to retake the examination may be, at
any time, contingent upon completion of additional designated courses.

Prerequisite courses to be completed with a grade of “B” or better:
ESPE 530  Introduction to Special Education  4
ESPE 531  Methods and Procedures in Special Education  4

Degree Requirements (48 units)

M.A. Core (12)
EDUC 603  Effective Communication in Education  4
EDUC 605  Foundations of Education  4
EDUC 607  Introduction to Educational Research  4

Special Education Core (20)
ESPE 611  Assessment Methods in Special Education  4
ESPE 612  Supportive Learning Environments for Students
with Disabilities  4

Choose ONE of the following:  4
ESPE 613  Seminar in Literacy Learning for Students with
Disabilities (required for candidates in Mild/
Moderate or Moderate/Severe emphasis)
ESPE 615  Seminar on Language and Literacy in Early
Childhood Special Education (required for
candidates in the ECSE emphasis)
ESPE 614  Curriculum and Methods for Diverse Learners with
Disabilities  4
ESPE 625  Collaboration and Consultation in Special
Education  4

Emphasis (12)
Candidates must choose one of the following emphasis areas:  12
Early Childhood Special Educations (ECSE)
ESPE 672  Methods in Early Childhood Special Education I
(not an elective for ECSE)
ESPE 673  Methods in Early Childhood Special Education II
(not an elective for ECSE)
ESPE 653  Seminar on Moderate/Severe Disabilities
Moderate/Moderate Disabilities
ESPE 642  Methods in Mild/Moderate Disabilities I
ESPE 643  Methods in Mild/Moderate Disabilities II
ESPE 657  Seminar on Mild/Moderate Disabilities
Moderate/Severe Disabilities
ESPE 662  Methods for Students with Moderate/Severe
Disabilities I
ESPE 663  Methods for Students with Moderate/Severe
Disabilities II
ESPE 653  Seminar on Moderate/Severe Disabilities
Autism Spectrum Disorders (ASD)
ESPE 610  Introduction to Autism Spectrum Disorders
ESPE 627  Education of Students with Autism Spectrum
Disorders

Culminating Experience (4)
Candidates must choose one of the following options:  4
A. Thesis or Project
EDUC 600  Masters Degree
B. Written Comprehensive Exam
ESPE 999  Comprehensive Examination

Four units chosen in consultation with an advisor which may include
one of the following:

ESPE 610  Introduction to Autism Spectrum Disorders (Note:
not an elective for ASD Emphasis)
ESPE 627  Education of Students with Autism Spectrum
Disorders (Note: not an elective for ASD
Emphasis)
ESPE 642  Methods in Mild/Moderate Disabilities I (Note: not
an elective for Mild/Moderate)
ESPE 643  Methods in Mild/Moderate Disabilities II (Note: not
an elective for Mild/Moderate)
ESPE 662  Methods for Students with Moderate/Severe
Disabilities I (Note: not an elective for Moderate/
Severe)
ESPE 663  Methods for Students with Moderate/Severe
Disabilities II (Note: not an elective for Moderate/
Severe)
ESPE 672  Methods in Early Childhood Special Education I
(Note: not an elective for ECSE)
ESPE 673  Methods in Early Childhood Special Education II
(Note: not an elective for ECSE)
ESPE 691A  Issues and Trends in Special Education: Current
Issues
ESPE 691B  Issues and Trends in Special Education:
Collaboration and Consultation
ESPE 691D  Issues and Trends in Special Education:
Instructional Technologies
ESPE 691E  Issues and Trends in Special Education:
Administration
ESPE 691F  Issues and Trends in Special Education: Historical
ESPE 691G  Issues and Trends in Special Education: Special
Populations
ESPE 691H  Issues and Trends in Special Education: Transition
ESPE 691J  Issues and Trends in Special Education: Post
Secondary

Total Units  48

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 three-year course of study,
will train students in rehabilitation counseling, vocational evaluation and

job placement of persons with disabilities. Graduates of the program will be prepared to take the certified rehabilitation counselor examination.

Rehabilitation counseling is a growing field in the mental health and allied health professions. A rehabilitation counselor helps persons with disabilities achieve their optimal social, psychological and vocational potential. Whenever possible, the final goal of rehabilitation is job placement. The rehabilitation counselor works with people who have different disabilities. The handicaps may be physical, intellectual, emotional or sociocultural.

Students will be encouraged to develop areas of specialization by completing research of individual interest and field work experiences in specialization areas. The rehabilitation counseling program also may 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 EREH 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 and EREH 616A with a grade of "B" (3.0) or better in each;
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 College and the Dean of Graduate Studies.

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 EREH 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 Shaumburg, Illinois, and of the university graduation writing requirement.

Degree Requirements (72 units)

Rehabilitation counseling courses (68)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EREH 610</td>
<td>Research and Assessment in Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td>EREH 615</td>
<td>Introduction to Rehabilitation Counseling</td>
<td>4</td>
</tr>
<tr>
<td>EREH 616A</td>
<td>Multiple Aspects of Disability: Medical</td>
<td>4</td>
</tr>
<tr>
<td>EREH 616B</td>
<td>Multiple Aspects of Disability: Vocational</td>
<td>4</td>
</tr>
<tr>
<td>EREH 617</td>
<td>Vocational Assessment and Development</td>
<td>4</td>
</tr>
<tr>
<td>EREH 618</td>
<td>Applied Job Placement</td>
<td>4</td>
</tr>
<tr>
<td>EREH 649</td>
<td>Organizational Development of Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Services</td>
<td></td>
</tr>
<tr>
<td>EREH 655</td>
<td>Multicultural Counseling in Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td>EREH 652</td>
<td>Dynamics of Human Behavior</td>
<td>4</td>
</tr>
<tr>
<td>EREH 656</td>
<td>Counseling Theories and Techniques in Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td>EREH 657</td>
<td>Counseling Practicum in Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td>EREH 667</td>
<td>Practicum in Rehabilitation Counseling</td>
<td>4</td>
</tr>
<tr>
<td>EREH 672</td>
<td>Seminar Topics in Rehabilitation Counseling</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(Topic examples: Casework Management, Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in Rehabilitation, Current Issues in Rehabilitation, and Multicultural Issues)</td>
<td></td>
</tr>
<tr>
<td>EREH 678</td>
<td>Theory and Practice of Group Counseling in</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rehabilitation</td>
<td></td>
</tr>
<tr>
<td>EREH 679</td>
<td>Fieldwork in Rehabilitation Counseling (for a total of 12)</td>
<td>12</td>
</tr>
</tbody>
</table>

Culminating Experience (4)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EREH 695</td>
<td>Certified Rehabilitation Counselor Examination</td>
<td>4</td>
</tr>
<tr>
<td>EREH 999</td>
<td>Comprehensive Examination</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Units 72
A grade of CR will be awarded upon 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, 60173. The exam is given in March, July and October with usual available sites in California. Students need to apply on an individual basis and pay a fee to take the Certified Rehabilitation Counselor (CRC) Examination. Students need to provide evidence of registration for the CRC Exam no later than the second quarter of their third year in the program. Students must take the CRC Exam no later than one year after the completion of all required coursework for the master’s degree in Rehabilitation Counseling. Student’s scores will be sent to the Coordinator of the Rehabilitation Counseling Master’s Program, and will be credited to EREH 999. If a student does not pass the CRC on the first attempt, they need to retake the exam the next time the CRC exam is given. If after the second attempt they do not pass the examination, the student needs to petition both the Dean of Graduate Studies and the Coordinator of the Rehabilitation Counseling Program, for permission to develop a plan of remediation in order to retake the CRC exam.

Certificate in Counseling

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

The Certificate in Counseling is designed only for those who a) already have a masters degree in Counseling and b) need to make up for deficiencies in their academic record in order to apply to the Board of Behavioral Sciences in California for a Licensed Professional Clinical Counselor (LPCC) license. Certificates may be earned by regularly matriculated students or by extended learning students and denote successful completion of a program of study. All units of coursework for this certificate must be completed at CSUSB. Entry to any of the courses may occur only with the consent of the program coordinator.

Admission to the Certificate in Counseling

Admission to the Certificate in Counseling depends upon the same academic standards required by the university for admission to graduate status. In addition to these general requirements, the following specific requirements for admission apply:

1. Submission to the program of transcripts from a master’s degree in Counseling or Marriage and Family Therapy (MFT) with a cumulative GPA of 3.0 or higher.
2. Submission of an application portfolio as specified by the program, including a resume, statement of professional intent, proof of successful completion of the CBEST, evidence of a current negative TB test, evidence of a Certificate of Clearance, three letters of recommendation from persons having knowledge of the applicant’s counseling potential, and a proposed program of study.

Applicants’ files will be reviewed by a committee of the Counseling Program faculty which will decide whether the applicant will be admitted. The admission committee will also approve the proposed program of study and may stipulate further coursework if required.

Certificate in Counseling Requirements (20 units)

Completion of at least five courses (20 units) from the following list. Students may take more than the required number of units up to a maximum of 48 units if these are required by the proposed program of study to meet requirements from the State of California. No guarantee of the decision of the decision that might be made by the Board of Behavioral Sciences in any individual application for a license is implied by completion of this certificate program.

A grade point average of 3.0 (“B”) in course work taken to satisfy the certificate requirements must be maintained, including a minimum of a “B” in ECLG 657A and ECLG 657B, and no grade below a “C” (2.0) in all other courses in the program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLG 619</td>
<td>Appraisal Procedures in Counseling</td>
</tr>
<tr>
<td>ECLG 633</td>
<td>Human Development for Counseling</td>
</tr>
<tr>
<td>ECLG 650</td>
<td>Career Counseling</td>
</tr>
<tr>
<td>ECLG 656</td>
<td>Counseling Theories</td>
</tr>
<tr>
<td>ECLG 654</td>
<td>Legal and Ethical Issues in Counseling and Guidance</td>
</tr>
<tr>
<td>ECLG 655</td>
<td>Multicultural Counseling</td>
</tr>
<tr>
<td>ECLG 657A</td>
<td>Counseling Practicum I</td>
</tr>
<tr>
<td>ECLG 657B</td>
<td>Advanced Counseling Practice</td>
</tr>
<tr>
<td>ECLG 658</td>
<td>Family Consultation</td>
</tr>
<tr>
<td>ECLG 678</td>
<td>Group Counseling</td>
</tr>
<tr>
<td>ECLG 661</td>
<td>Diagnosis and Treatment Plan</td>
</tr>
<tr>
<td>ECLG 669</td>
<td>Psychopharmacology</td>
</tr>
<tr>
<td>ECLG 662</td>
<td>Addictions Counseling</td>
</tr>
<tr>
<td>ECLG 663</td>
<td>Gender and Sexuality</td>
</tr>
<tr>
<td>ECLG 664</td>
<td>Crisis and Trauma Counseling</td>
</tr>
<tr>
<td>ECLG 668</td>
<td>Aging Death and Grief</td>
</tr>
<tr>
<td>ECLG 665</td>
<td>Family Violence</td>
</tr>
<tr>
<td>ECLG 667</td>
<td>Conflict Resolution</td>
</tr>
<tr>
<td>ECLG 679</td>
<td>Counseling Field Experience</td>
</tr>
</tbody>
</table>

Total Units: 20

Department of Language, Literacy and Culture

Department of Language, Literacy and Culture

College of Education Building, Room 261, (909) 537-7405
Masters

- Bilingual/Cross-Cultural
- Reading/Language Arts
- Teaching English to Speakers of Other Languages

Graduate Degrees

Masters

- Master of Arts in Education - Bilingual/Cross-Cultural (p. 551)
- Master of Arts in Education - Reading and Literacy (p. 552)
- Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) (p. 554)

Master of Arts in Education - Bilingual/Cross-Cultural Option

The M.A. in education with an option in bilingual/crosscultural education is designed to provide advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in curriculum and instruction 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 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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.

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;
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College
A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students must register for EDUC 600 and these units must be part of the required 48 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work extension and transfer courses from other colleges.

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The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work extension and transfer courses from other colleges.

Degree Requirements (48)

EDUC 603 Effective Communication in Education 4
EDUC 605 Foundations of Education 4
EDUC 607 Introduction to Educational Research 4
EELB 606 Theory and Practice in Teaching Bilingual Students 4
EELB 608 Research in Bilingual/Cross-Cultural Education 4
EELB 612 Social and Cultural Contexts for School Learning 4
EESL 613 Cognition and Language Acquisition 4
Four units chosen from: 4
  EELB 611 Spanish Children's Literature for the Bilingual Classroom
  EELB 625 Curriculum and Materials for Bilingual and ESL Classrooms
  EELB 626 Literacy and Bilingual Development
  EELB 627 Innovations in Bilingual Education 4
  or EELB 628 Bilingualism and the Social Construction of Mind
Eight units of electives chosen from: 8
  ECLG 655 Multicultural Counseling

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 Masters Degree, 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 in Graduate Degree and Program Requirements (p. 60).

The program requires teaching experience, but not a teaching credential.

The program enables graduates to assume leadership in environmental education in indoor and outdoor settings and to all grade/age levels and other interpretative situations. Admission to the program requires teaching experience, but not a teaching credential.

The program is designed to provide advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The program is designed to provide advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The program provides opportunities for teachers to gain expertise and knowledge in subject matter content and pedagogy or to teach gifted and talented students.

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 program requires teaching experience, but not a teaching credential.

The program meets the requirements for leadership positions in these facilities.

The program meets the requirements for leadership positions in these facilities.

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 program provides opportunities for teachers to gain expertise and knowledge in subject matter content and pedagogy or to teach gifted and talented students.

The program requires teaching experience, but not a teaching credential.

The program requires teaching experience, but not a teaching credential.

Master of Arts in Education - Reading and Literacy Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in environmental education is designed to prepare individuals to teach environmental education effectively in indoor and outdoor settings and to all grade/age levels and enables graduates to assume leadership in environmental education in schools, nature centers, and other interpretative situations. Admission to the program requires teaching experience, but not a teaching credential.

The M.A. in education with an option in 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.
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.

Requirements (48 units)

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid basic California teaching credential or teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
3. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 16 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), 12 quarter units of course work at least 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 to retake the examination or any part of it. Students who do not receive a passing score may petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be met upon successful completion of ERDG 647.

5. The graduation writing requirement is met upon successful completion of ERDG 647.
6. Any additional University requirements for a Master’s Degree Program.

A satisfactory Master’s Degree Project is one that is 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 have advanced to candidacy and completed 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 transfer credit course work from any institution which that does not accept that work in its own advanced degree program.

Degree Requirements (48 units)

Core Courses (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
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</tbody>
</table>

Reading/Language Arts Core (32)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ERDG 619</td>
<td>Literacy Assessment and Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 626</td>
<td>Foundations of Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 627</td>
<td>Literacy and Language Processes</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 636</td>
<td>Critical Approaches to a Culture of Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 637</td>
<td>Basic Materials and approaches to Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 639</td>
<td>Practicum in Reading and Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 647</td>
<td>Curriculum Perspectives in Literacy</td>
<td>4</td>
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</tbody>
</table>
Master of Arts in Education -
Teaching English to Speakers of Other Languages (TESOL) Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in curriculum and instruction is designed to give advanced training to personnel involved in curriculum and instruction in grades K-12 and at other levels. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in environmental education is designed to prepare individuals to teach environmental education effectively in indoor and outdoor settings and to all grade/age levels and develop the candidate’s content knowledge in science.

The M.A. in education with an option in instructional technology is designed to provide advanced and specialized education to personnel working in a variety of settings related to educational innovation, integrative learning, and meaning-centered learning.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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 her/his 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.

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");
2. Completion of the graduate entrance writing requirement;
3. EESL 521 Computer-Assisted Language Learning (4 s.h.)
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, EDUC 605 and EDUC 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;

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ERDG 649</td>
<td>Assessment and Intervention in PreK-12 Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CULMINATING EXPERIENCE (4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group A. Comprehensive Examination Option:</td>
<td></td>
<td></td>
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<tr>
<td>ERDG 656</td>
<td>Contemporary Issues in Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ERDG 999</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 600</td>
<td>Masters Degree</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 48
2. A grade point average of 3.0 (“B”) in all course work taken to satisfy the Master of Arts degree requirements, and grades of “C” (2.0) or better in all courses in the program;

3. Successful completion of one of the following:
   a. EDUC 600
      A successful project is one which can be reported in the form of a paper and/or other media. The project proposal and the project must be approved by the student’s advisor and one other professor in the College of Education and submitted in the approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.
   OR
   b. Written comprehensive exam.
      The written comprehensive examination is designed to test the student’s knowledge of the field of ESL/EFL instruction. The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

4. The graduation writing requirement is met upon successful completion of 4A or 4B above;

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.

Note: Enrollment in any course in the program is subject to approval of the program coordinator.

Degree Requirements (48 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>EESL 514</td>
<td>Curriculum Design in TESOL</td>
<td>4</td>
</tr>
<tr>
<td>EESL 536</td>
<td>Crosscultural Teaching</td>
<td>4</td>
</tr>
<tr>
<td>EESL 543</td>
<td>Listening and Speaking Methods in TESOL</td>
<td>4</td>
</tr>
<tr>
<td>EESL 544</td>
<td>Reading Methods for TESOL</td>
<td>4</td>
</tr>
<tr>
<td>EESL 545</td>
<td>Writing Methods in TESOL</td>
<td>4</td>
</tr>
<tr>
<td>EESL 685</td>
<td>Research in TESOL</td>
<td>4</td>
</tr>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EESL 670</td>
<td>Principles and Practice in TESOL</td>
<td>4</td>
</tr>
<tr>
<td>EESL 671</td>
<td>Survey of Methods in Teaching English as a Foreign Language</td>
<td>4</td>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EESL 524</td>
<td>Supervised Observation/Participation in Teaching English to Speakers of Other Languages</td>
<td>4</td>
</tr>
<tr>
<td>EESL 525</td>
<td>Tutoring Methods in Teaching English to Speakers of Other Languages</td>
<td>4</td>
</tr>
<tr>
<td>EESL 678</td>
<td>Studies in K-12 Classroom Discourse</td>
<td>4</td>
</tr>
</tbody>
</table>

EESL 679 Fieldwork: Teaching English to Speakers of Other Languages 4 units

EESL 680 Practicum in Teaching English to Speakers of Other Languages (TESOL) 4 units

Electives:

- ECTS 504 Principles of Career and Technical Education
- EDCI 624 Advanced Teaching Methodology
- EESL 500 Introduction to Teaching English to Speakers of Other Languages
- EESL 501 Foundations of TESOL
- EESL 505 Differentiated Curriculum in TESOL
- EESL 524 Supervised Observation/Participation in Teaching English to Speakers of Other Languages
- EESL 525 Tutoring Methods in Teaching English to Speakers of Other Languages
- EESL 533 TESOL Crosscultural Teaching Practicum
- EESL 540 Teaching Adult English Learners
- EESL 660 Second Language Acquisition Classroom Research
- EESL 665 Creative Teaching in TESOL
- EESL 671 Survey of Methods in Teaching English as a Foreign Language
- EESL 678 Studies in K-12 Classroom Discourse
- EESL 686 Advanced Research Methods in TESOL
- ERDG 626 Foundations of Literacy
- ETEC 500 Foundations in Instructional Education
- ETEC 501 Foundations of e-Learning
- ETEC 541 E-Learning Design and Development
- ETEC 544 Design and Development of Instructional Materials

or other upper-division graduate courses appropriate to this concentration, subject to advance approval by the Education Graduate Committee and TESOL coordinator.

Total Units 48
Department of Science, Mathematics and Technology Education

Bachelor of Arts 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;
      Note: Up to 105 quarter units of lower-division course work may be accepted as transfer credit from an accredited community college or other accredited postsecondary educational institutions.
   b. At least 60 of these units must be in upper-division course work;
   c. Eighty-two of these units must be in the area of general education as specified in the general education requirements, Page 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)
ECTS 335 Introduction to Career and Technical Studies
ECTS 435  Trends and Issues in Career and Technical Programs  4
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 518  Field Work in Designated Subjects  4
ECTS 519  Computer Applications for Career and Technical Educators  4
ECTS 520  Curriculum Development for Career and Technical Programs  4
ECTS 521  Assessing Student Progress  4

Career and Technical Evaluation of Competency (CTEC) (34-45)
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.

Total Units  74-85

Bachelor of Science in Career and Technical Studies

Requirements (74 units)

Total units required for graduation: 180

Admission to the Program

As prerequisites for acceptance into the B.S. in Career and Technical Studies, students must complete the following as a "Pre-Career and Technical Studies major." Upon acceptance into the program, a student’s major will be changed from "Pre-CTS" to "Career and Technical Studies" status.

Requirements to enter the B.S. in Career and Technical Studies:

1. An earned AA or AS degree in a technical field or consent of the department advisor;
2. Completed CSU GE-Breadth Certification from a California Community College, including the American Institutions requirements (U.S. History, U.S. Constitution, and California State and Local Government);
3. A minimum of 80 earned quarter units;
4. A minimum GPA of 2.0;
5. A formal application submitted to the program advisor. Please see the Department of Science, Math, and Technology Education for forms.

Requirements for the B.S. in Career and Technical Studies:

Career and Technical Studies (26)
Students must complete 18 required units and 8 elective units from this area as specified in a program plan developed with a program advisor.

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 540  Topics in Career and technical Education  2

Eight 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 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 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)
Students will complete 12 required units and 12 elective units from this area as specified in a program plan developed with a program advisor.

ETEC 501  Foundations of e-Learning  4
ETEC 541  E-Learning Design and Development  4
ETEC 542D  Seminar in Instructional Technology  4

Twelve units chosen from:

ETEC 500  Foundations in Instructional Education  4
ETEC 537  Computer Based Technology in Education I  4
ETEC 543  Technology and Learning I  4
ETEC 544  Design and Development of Instructional Materials I  4
ETEC 546  Computer Based Technology in Education II

Entrepreneurship (24)
Students will complete 16 required units and 8 elective units from this area as specified in a program plan developed with a program advisor.

MGMT 543  New Venture Opportunity Analysis  4
MGMT 544  New Venture Development  4
MGMT 545  New Venture Resource Requirements  4
MGMT 549  Launching the Entrepreneurial Venture  4

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  4
Developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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.

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, ECTS 638 and ECTS 639, students should start with the EDUC 306 writing requirement, then complete Emphasis areas and the Education core courses, EDUC 603, EDUC 605 and EDUC 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 in Graduate Degree and Program Requirements (p. 60).

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 519</td>
<td>Computer Applications for Career and Technical Educators</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 637</td>
<td>Foundations of Career and Technical Studies</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 638</td>
<td>Critical Issues for the Career and Technical Educator</td>
<td>4</td>
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<tr>
<td>ECTS 639</td>
<td>Professional Competencies in Career and Technical Studies</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 640B-D</td>
<td>Topics in Education</td>
<td></td>
</tr>
</tbody>
</table>

Successful completion of Track A or Track B: 15 units

Track A:
EDUC 600 Masters Degree

Eleven units from one of the following emphasis areas.

Track B:
ECTS 999 Comprehensive Examination

15 units from one of the following emphasis areas.

Total Units 43

Counseling

ECLG 650 Career Counseling

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

EDCI 620 School Curriculum

Remaining units of electives approved by the candidate’s advisor.

Educational Computing

ECTE 546 Computer Based Technology in Education II 4

Remaining units of electives approved by the candidate’s advisor.

This course work may also be applied (where appropriate) toward the Certificate in Educational Computing.

Educational Technology

ECTE 544 Design and Development of Instructional Materials 4

Remaining units of electives approved by the candidate’s advisor.

This course work may also be applied (where appropriate) toward the Certificate in Educational Technology.

School Administration

EADM 601 Educational Leadership and Ethics 4

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

ESPE 530 Introduction to Special Education 4

Remaining units of electives approved by the candidate’s advisor.

Supervision and Coordination

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 of Career and Technical Programs 4

Remaining units of electives approved by the candidate’s advisor.

This course work may also be applied (where appropriate) toward the Supervision and Coordination of Designated Subjects Program credential.

Master of Arts in Education - Environmental Education Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

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.

Requirements (48 units)

NOTE: This program is not admitting students for 2012-14.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are as follows:

1. Either A or B as follows:
   a. Possession of a valid teaching credential.
   b. Teaching experience or related experience. One letter of recommendation from a person in a position to make relevant comments on the student’s teaching experience and potential for success in the graduate education program must be submitted;

2. Submission of a one-page typewritten statement of the student’s preparation for graduate study in environmental education and personal goals for the graduate education program;
3. A cumulative undergraduate grade point average of 3.0 (“B”) overall;
4. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
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;
   Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education.

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 697</td>
<td>Masters Degree Project</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Track B: Master’s Thesis (8)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 699</td>
<td>Thesis</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Track C: Comprehensive Examination (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 651</td>
<td>Historical and Contemporary Readings in Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 999</td>
<td>Comprehensive Examination</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

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 999 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 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 EENV 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 courses (14)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 635</td>
<td>Environmental Education in the Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>EENV 636</td>
<td>Teaching Current Environmental Issues</td>
<td>2</td>
</tr>
<tr>
<td>EENV 642</td>
<td>Developing the Curriculum through Outdoor Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 643</td>
<td>Community Resources for Environmental Education</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Other required courses (18)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>EENV 650</td>
<td>Selected Topics in Environmental Education</td>
<td>4</td>
</tr>
<tr>
<td>EENV 679B</td>
<td>Fieldwork: Environmental Education</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Electives (8)

Eight units of electives of which at least four must come from group A:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 601B</td>
<td>Graduate Independent Study</td>
<td>4</td>
</tr>
</tbody>
</table>

### Culminating Experience (8)

Students must take one of the following three tracks:

<table>
<thead>
<tr>
<th>Track A: Master’s Project</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EENV 697</td>
<td>Masters Degree Project</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Track B: Master’s Thesis</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EENV 699</td>
<td>Thesis</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Track C: Comprehensive Examination</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENV 651</td>
<td>Historical and Contemporary Readings in Environmental Education</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EENV 664</td>
<td>Research in Environmental Education</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EENV 999</td>
<td>Comprehensive Examination</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 48

Total Units 8

Total Units 8

Total Units 8
Master of Arts in Education - Instructional Technology Option

Master of Arts in Education

The M.A. in education with an option in bilingual/crosscultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. 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 reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in teacher leadership has been developed in collaboration with Academic Partnerships, an entity that has a proven track record of marketing innovative online education programs with established institutions of higher learning.

The M.A. in education with an option in science education meets the needs of the candidate who is interested in developing 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.

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. 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;
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. A cumulative grade point average of 3.0 ("B") in all upper-division courses;
2. Completion of the graduate entrance writing requirement;
3. Successful completion of a master’s degree project or comprehensive examination. The project must be approved by the instructor and the applicant’s work history or educational background.
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 in
Graduate Degree and Program Requirements (p. 60).

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 603</td>
<td>Effective Communication in Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 605</td>
<td>Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 607</td>
<td>Introduction to Educational Research</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 500</td>
<td>Foundations in Instructional Education</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 543</td>
<td>Technology and Learning I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 544</td>
<td>Design and Development of Instructional Materials I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 692</td>
<td>Practicum in Educational Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following: 4

Research
- ETEC 643 Technology and Learning II
- ETEC 644 Design and Development of Instructional Materials II

Electives:

Twelve units chosen from: 12
- ETEC 501 Foundations of e-Learning
- ETEC 541 E-Learning Design and Development
- ETEC 546 Computer Based Technology in Education II
- ETEC 614 Needs Assessment: Issues and Techniques
- ETEC 617 Instructional Development and Change Process
- ETEC 623 Technology for Educational Leaders
- ETEC 624 Website Design and Development
- ETEC 625 Interactive Animation Design and Development
- ETEC 634 Information Systems in Education
- ETEC 648 E-Learning Delivery and Evaluation

ETEC 674 E-Learning Technology and Media
ETEC 676B-G Advanced Topics in Instructional Technology

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.

Culminating Experience. Students must complete one of the following options:

- Master’s Project:
  - ETEC 699 Masters Degree Project

- Comprehensive Examination:
  - ETEC 999 Comprehensive Examination

Four units of ETEC courses.

Total Units 48

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, ESTM 511, ESTM 512 and ESTM 680, with a grade of
   "B" or better in each course;
3. Secured approval of candidacy from the College of Education;
4. Completed a 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. Satisfactory completion of graduation 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 690</td>
<td>STEM Education: Advanced Research</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 699</td>
<td>STEM Education: Master’s Thesis/Project</td>
<td>4</td>
</tr>
</tbody>
</table>

A satisfactory thesis 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 999</td>
<td>STEM Education: Comprehensive Examination</td>
<td>0</td>
</tr>
</tbody>
</table>

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)**

<table>
<thead>
<tr>
<th>Core Courses (24)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 510</td>
<td>Perspectives of STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 511</td>
<td>Technology and Engineering Design in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 512</td>
<td>Foundations of Research in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 514</td>
<td>STEM Education: Technology Tools</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 681</td>
<td>STEM Education: Integration Seminar II</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 692</td>
<td>STEM Education: Service Learning Fieldwork</td>
<td>4</td>
</tr>
</tbody>
</table>

**Concentration (16)**

Students must take one concentration.

**Culminating Experience (8)**

Students must take one track.

**Total Units**

48
Concentration Options

Career and Technical Studies Concentration (16 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS 637</td>
<td>Foundations of Career and Technical Studies</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 638</td>
<td>Critical Issues for the Career and Technical Educator</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 535</td>
<td>STEM Education: Exploration of Technology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units of electives chosen in consultation with an advisor.</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>16</td>
</tr>
</tbody>
</table>

Instructional Technology Concentration (16 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 535</td>
<td>STEM Education: Exploration of Technology</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 543</td>
<td>Technology and Learning I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 644</td>
<td>Design and Development of Instructional Materials II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units of electives chosen in consultation with an advisor.</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>16</td>
</tr>
</tbody>
</table>

K-8 Mathematics Education Concentration (16 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 625</td>
<td>Teaching Algebra in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 626</td>
<td>Teaching Geometry in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 628</td>
<td>Integrating Mathematics and Science in the STEM Classroom</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 644</td>
<td>Inquiry in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>16</td>
</tr>
</tbody>
</table>

K-8 STEM Integration Concentration (16 units)

One course from each concentration. A student needs a consultation with the faculty advisor or the program coordinator.

- Science and Environmental Education
  - a. Science and Environmental Education
  - b. K-8 Mathematics Education
  - c. Career and Technical Studies
  - d. Instructional Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 623</td>
<td>Teaching Physical Science in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 628</td>
<td>Integrating Mathematics and Science in the STEM Classroom</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 644</td>
<td>Inquiry in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 647</td>
<td>Teaching Earth/Space Science in STEM Education</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>16</td>
</tr>
</tbody>
</table>

Culminating Experience Track Options

Master’s Thesis option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 690</td>
<td>STEM Education: Advanced Research</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 699</td>
<td>STEM Education: Master’s Thesis/Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>8</td>
</tr>
</tbody>
</table>

Master’s Project option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 690</td>
<td>STEM Education: Advanced Research</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 699</td>
<td>STEM Education: Master’s Thesis/Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>8</td>
</tr>
</tbody>
</table>

Comprehensive Examination Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 999</td>
<td>STEM Education: Comprehensive Examination</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Eight units of electives from the list below, chosen in consultation with advisor.</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>8</td>
</tr>
</tbody>
</table>

Electives for the Comprehensive Examination Option

Career Technical Studies Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS 501</td>
<td>Principles and Methods for Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 502</td>
<td>Instructional Support for Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 503</td>
<td>Contemporary Issues in Teaching Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 504</td>
<td>Principles of Career and Technical Education</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 508</td>
<td>Organization and Structure of Career and Technical Programs</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 509</td>
<td>Personnel Management in Career and Technical Programs</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 510</td>
<td>Field Work in Coordination and Supervision of Career and Technical Programs</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 518</td>
<td>Field Work in Designated Subjects</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 519</td>
<td>Computer Applications for Career and Technical Educators</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 639</td>
<td>Professional Competencies in Career and Technical Studies</td>
<td>4</td>
</tr>
<tr>
<td>ECTS 640B-D</td>
<td>Topics in Education</td>
<td>2-4</td>
</tr>
<tr>
<td>ESTM 548</td>
<td>STEM Education: Green Technology</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 613</td>
<td>Assessment in Stem Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 680</td>
<td>STEM Education: Integration Seminar I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 676D</td>
<td>Advanced Topics in Instructional Technology</td>
<td>2-8</td>
</tr>
</tbody>
</table>

Instructional Technology Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTM 613</td>
<td>Assessment in Stem Education</td>
<td>4</td>
</tr>
<tr>
<td>ESTM 680</td>
<td>STEM Education: Integration Seminar I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 500</td>
<td>Foundations in Instructional Education</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 501</td>
<td>Foundations of e-Learning</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 537</td>
<td>Computer Based Technology in Education I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 541</td>
<td>E-Learning Design and Development</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 544</td>
<td>Design and Development of Instructional Materials I</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 546</td>
<td>Computer Based Technology in Education II</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 623</td>
<td>Technology for Educational Leaders</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 634</td>
<td>Information Systems in Education</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 643</td>
<td>Technology and Learning II</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 648</td>
<td>E-Learning Delivery and Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 674</td>
<td>E-Learning Technology and Media</td>
<td>4</td>
</tr>
<tr>
<td>ETEC 676D</td>
<td>Advanced Topics in Instructional Technology</td>
<td>2-8</td>
</tr>
</tbody>
</table>
K-8 Mathematics Education Concentration

EDCI 632  Mathematics Clinic  4
ESTM 613  Assessment in STEM Education  4
ESTM 624  Teaching Elementary Mathematics in STEM Education  4
ESTM 680  STEM Education: Integration Seminar I  4

K-8 STEM Integration Concentration

Eight units elective courses from any of the STEM concentrations. A student needs a consultation with the faculty advisor or the program coordinator.

Science and Environmental Education Concentration

EDCI 636  Advanced Science Methods  4
EENV 652  Nature Study in Environmental Education  4
ESTM 613  Assessment in STEM Education  4
ESTM 680  STEM Education: Integration Seminar I  4
NSCI 604  The Nature and History of Science  4

Minor in Career and Technical Studies

Requirements (28 units)

Candidates seeking the Designated Subjects Teaching credential will also need to complete: ECTS 518, HSCI 540, Adult/child/infant CPR, U.S. Constitution, and teaching experience requirements.

Requirements for a minor in Career and Technical Studies

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 519  Computer Applications for Career and Technical Educators  4

Total Units  28

Certificate in Career and Technical Education

Requirements (24 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or

3. 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.

This certificate constitutes recognition of teacher preparation in the area of Career and Technical Education. Although it partially satisfies the Commission on Teacher Credentialing, it is not a teaching credential.

Certificate Requirements

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 518  Field Work in Designated Subjects  4
ECTS 519  Computer Applications for Career and Technical Educators  4

Total Units  24
College of Natural Sciences

Kirsty Fleming, Dean
Peter Williams, Associate Dean
Christopher Lindfelt, Assistant Dean

生物 sciences building, room 107
(909) 537-5300 College of natural sciences website (http://nsi.csusb.edu)

The university offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

Departments/Schools

- Biology (http://biology.csusb.edu)
- Chemistry and Biochemistry (http://chem.csusb.edu)
- Computer Science and Engineering (http://cse.csusb.edu)
- Geological Sciences (http://geology.csusb.edu)
- Health science and Human ecology (http://health.csusb.edu)
- Kinesiology (http://kine.csusb.edu)
- Mathematics (http://www.math.csusb.edu)
- Nursing (http://nursing.csusb.edu)
- Physics (http://physics.csusb.edu)

Courses

NSCI 295A. Special Projects in Natural Science. 1 Unit.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected problems.

NSCI 295B. Special Projects in Natural Science. 2 Units.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected problems.

NSCI 296A. Special Projects in Natural Science. 1 Unit.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected laboratory problems.

NSCI 296B. Special Projects in Natural Science. 2 Units.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected laboratory problems.

NSCI 300. Science and Technology. 4 Units.
Prerequisites: junior or senior standing
(GE=B5)
Relationship between science and technology-past, present and future with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues.

NSCI 306. Expository Writing for the Natural Sciences. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit
(GE=F1)
Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly NSCI 495. Graded A, B, C/no credit.

NSCI 310. The Environment and Human Survival. 4 Units.
Prerequisites: junior or senior standing
(GE=B5)
Consideration of the environment and environmental problems generated by the interactive effects of our biological heritage, the impact of science and technology, and our cultural attitudes.

NSCI 314. Life in the Cosmos. 4 Units.
Prerequisites: junior or senior standing
(GE=B5)
Life in the cosmos is discussed using the findings of astronomy, biology, chemistry and physics. Topics include the development of life and its environment, the search for life, interstellar communications and travel and the effects of contact.

NSCI 315. Natural Disasters. 4 Units.
Prerequisites: junior or senior standing
(GE=B5)
A consideration of natural processes such as volcanic eruptions, earthquakes, global sea level rise, slope failures, floods, wildland fires, meteoric impacts and severe forms of weather, that have had or may have disastrous consequences on both humans and the environment.

NSCI 320. Energy. 4 Units.
Prerequisites: junior or senior standing
(GE=B5)
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.

NSCI 325. Perspectives on Gender. 4 Units.
Prerequisites: junior or senior standing
(GE=B5, G1)
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.).
NSCI 351. Health and Human Ecology. 4 Units.
Prerequisites: junior or senior standing (GE=B5)
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.

NSCI 360. Legacy of Life. 4 Units.
Prerequisites: junior or senior standing (GE=B5)
History of life on earth and the processes that govern its genesis, evolution, extinction, ecology, and preservation.

NSCI 368. MARC Seminar I. 2 Units.
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 368, 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.

NSCI 395A. Directed Study. 1 Unit.
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
Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member.

NSCI 395B. Directed Study. 2 Units.
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
Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member.

NSCI 395C. Directed Study. 3 Units.
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
Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member.

NSCI 395D. Directed Study. 4 Units.
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
Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member.

NSCI 468. MARC Seminar II. 2 Units.
Prerequisites: NSCI 368, PSYC 368 or SSCI 368
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. Offered as NSCI 468, PSYC 368, 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.

NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subject. 4 Units.
Prerequisites: ESEC 332 (or 330), senior or graduate standing and admission to the single subject credential program or consent of College of Natural Sciences
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.

NSCI 595A. Independent Study. 1 Unit.
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
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.

NSCI 595B. Independent Study. 2 Units.
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
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.

NSCI 595C. Independent Study. 3 Units.
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
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.

NSCI 595D. Independent Study. 4 Units.
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
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.

NSCI 604. The Nature and History of Science. 4 Units.
Brief survey of the development of science from myth through Greek thought to selected topics in contemporary sciences.

NSCI 612. Developing Elementary Science Laboratories. 2 Units.
Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for the elementary grades.
NSCI 633. Developing Chemistry Laboratories. 1 Unit.
Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for chemistry.

NSCI 634. Developing Geoscience Laboratories. 1 Unit.
Hands-on laboratory activities which involve the design and implementation of science demonstrations for the geosciences.

NSCI 635. Developing Life Science Laboratories. 1 Unit.
Hands-on laboratory activities which involve the design and implementation of science demonstrations for the life sciences.

NSCI 636. Developing Physics Laboratories. 1 Unit.
Hands-on laboratory activities which involve the design and implementation of science demonstrations for physics.

NSCI 645. Issues in Science, Technology and Society. 2 Units.
Seminar in scientific topics of current social interest.

NSCI 694. Masters Project. 4 Units.
Prerequisites: advancement to candidacy and consent of the graduate coordinator.

NSCI 695A. Directed Graduate Studies. 1 Unit.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.

NSCI 695B. Directed Graduate Studies. 2 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.

NSCI 695C. Directed Graduate Studies. 3 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.

NSCI 695D. Directed Graduate Studies. 4 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.

NSCI 695E. Directed Graduate Studies. 5 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.

NSCI 695F. Directed Graduate Studies. 6 Units.
Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies.
Department of Biology

Bachelor of Arts
- Biology
- Biology - Integrated Teaching Track
- Biology - Pre-Med Option

Bachelor of Science
- Bioinformatics
- Biology
  - Ecology and Evolution Option
  - Pre-Med Option
  - Doctor of Osteopathic Medicine Articulation

Minor
Biology

Certificate Program
Biotechnology

Master of Science
- Biology
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.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 103</td>
<td>Descriptive Astronomy</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
<td>5</td>
</tr>
</tbody>
</table>

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.

Bioinformatics

Department of Biology
Biological Sciences Building, Room 329
(909) 537-5305 Department of Biology website (http://biology.csusb.edu)

Department of Chemistry and Biochemistry
Chemical Science Building, Room CS-204
(909) 537-5318 Department of Chemistry and Biochemistry website (http://chem.csusb.edu)

School of Computer Science and Engineering
Jack Brown Hall, Room 307
(909) 537-5326 School of Computer Science and Engineering website (http://cse.csusb.edu)

Bachelor of Science
Bioinformatics
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 gnomes, 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.

**Current Faculty**

Colleen R. Bonney, Professor  
B.S. 1985, M.S. 1988, California State Polytechnic University, Pomona  
Ph.D. 1993, University of Chicago

Nicole Bournias-Vardiabasis, Professor  
B.S. 1975, University of California, Irvine  
Ph.D. 1978, University of Essex, United Kingdom

Michael Y. Chao, Professor, Chair  
Ph.D. 2001, University of Texas Southwestern Medical Center

Jeremy Dodsworth, Assistant Professor  
B.S. 2000, University of Wisconsin, Madison  
Ph.D. 2006, University of Washington

James A. Ferrari, Professor  
B.A. 1975, Queens College, City University of New York  
M.S. 1979, Ph.D. 1985, University of California, Riverside

Angela Horner, Assistant Professor  
Ph.D., 2010, Ohio University - Main Campus

Anthony E. Metcalf, Professor  
B.A. 1977, Simon Fraser University  
B.S. 1988, Ph.D. 1998, University of California, Riverside

Laura Newcomb, Associate Professor  
B.S. 1995, University of Wisconsin, Milwaukee  
Ph.D. 2001, University of Wisconsin, Madison

Paul M. Orwin, Professor  
B.S. 1991 Harvey Mudd College  
Ph.D. 2001, University of Minnesota

Tomasz Owerkowicz, Assistant Professor  

David Polcyn, Professor  
B.A. 1981, California State University, Fullerton  
M.A. 1983, Ph.D. 1988, University of California, Riverside

David Rhoads, Assistant Professor  
Ph.D., 1992, Michigan State University

John Skillman, Professor  
B.S. 1988, Oregon State University  
Ph.D. 1994, Duke University

Stuart S. Sumida, Professor  

Kimberlyn Williams, Professor  
B.A. 1979, University of California, Davis  
Ph.D. 1987, Stanford University

**Emeriti**

Klaus Brach, Professor

Dalton Harrington, Professor

Sarojam Mankau, Professor

Alexander Sokoloff, Professor

Ruth Wilson, Professor

**Undergraduate Degrees**

**Bachelor of Arts**

- Biology (p. 582)
- Biology - Integrated Teaching Track (p. 582)
- Biology - Pre-Med Option (p. 583)

**Bachelor of Science**

- Bioinformatics (p. 584)
- Biology (p. 585)
  - Ecology and Evolution Option (p. 585)
  - Pre-Med Option (p. 586)
  - Doctor of Osteopathic Medicine Articulation (p. 587)

**Graduate Degree**

- Master of Science in Biology (p. 588)

**Minor**

- Biology (p. 590)

**Certificate Program**

- Biotechnology (p. 590)
Courses

BIOL 100. Topics in Biology. 5 Units.  
(GE=B2)  
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.

BIOL 200. Biology of the Cell. 5 Units.  
Prerequisites: satisfactory score on the Entry Level Mathematics examination  
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.

BIOL 201. Biology of Organisms. 5 Units.  
Prerequisites: BIOL 200 with a grade of C or better  
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.

BIOL 202. Biology of Populations. 5 Units.  
Prerequisites: BIOL 201 with a grade of C or better  
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.

BIOL 216. Genetics and Society. 2 Units.  
(GE=B4)  
Technological advances in human genetics and their impact on society. Biological and ethical perspectives of the application of genetic research. Two hours lecture.

BIOL 217. Biology of Sexually Transmitted Diseases. 2 Units.  
(GE=B4)  
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.

BIOL 220. Principles of Microbiology. 5 Units.  
Prerequisites: one lower-division biology course. (BIOL 100 strongly recommended)  
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.

BIOL 223. Human Physiology and Anatomy I. 5 Units.  
Prerequisites: BIOL 100  
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.

BIOL 224. Human Physiology and Anatomy II. 5 Units.  
Prerequisites: BIOL 223  
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.

BIOL 251. Readings in Ecosystem Biology. 1 Unit.  
Prerequisite/Corequisite: BIOL 349. Must be completed within two quarters of having completed BIOL 349  
Selected assigned readings in ecosystem biology. For students formally enrolled in the University Honors Program and in BIOL 349. One hour of discussion.

BIOL 295A. Special Projects in Biology. 1 Unit.  
Prerequisites: consent of instructor  
Individual investigation, research, study or survey of selected problems.

BIOL 295B. Special Projects in Biology. 2 Units.  
Prerequisites: consent of instructor  
Individual investigation, research, study or survey of selected problems.

BIOL 300. Cell Physiology. 5 Units.  
Prerequisites: BIOL 200, BIOL 201 and BIOL 202 with grades of C or better; CHEM 215 and CHEM 216  
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.

BIOL 301. Biology in the Classroom. 4 Units.  
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.

BIOL 304. Biology of Cancer. 4 Units.  
Prerequisites: BIOL 100  
A comprehensive survey of the biological principles underlying the causes and treatment of cancer. Topics include the genetics of cancer, factors affecting tumor growth, host defense against cancer cells, and modern therapeutic protocols. Four hours lecture. This course does not satisfy requirements for the B.A. and B.S. majors in biology.

BIOL 305. Biology of the Dinosauria. 4 Units.  
Prerequisites: one lower-division biology course  
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.
BIOL 306. Human Heredity and Development. 4 Units.
Prerequisites: one lower-division biology course
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.

BIOL 314. Biology of Human Sexuality. 4 Units.
Prerequisites: one lower-division biology course
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.

BIOL 319. Local Flora. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better or consent of instructor
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.

BIOL 320. Microorganisms. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 321. Evolution. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better
Darwin, views of evolution and their implications in various disciplines. Four hours lecture.

BIOL 323. Human Anatomy for Biology Majors. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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, and endocrine and special senses. Four hours lecture and six hours laboratory. Materials fee required.

BIOL 324. Human Physiology for Biology Majors. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 331. Biology of Invertebrates. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 335. Entomology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 340. Comparative Embryology. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better. BIOL 342 strongly recommended
Descriptive survey of developmental patterns of tissue and organ formation to include studies of insects, echinoderms, and amphibian, avian, reptilian, marsupial plus placental mammalian vertebrate embryology. Three hours lecture and three hours laboratory. Materials fee required.

BIOL 342. Biology of Chordates. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 349. Biology of Ecosystems. 5 Units.
Prerequisites: one lower division course in biology
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.

BIOL 354. Biology of Higher Plants. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 371. Parasitology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 380. Medical and Economic Botany. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 390. Biology Seminar. 1 Unit.
Prerequisites: BIOL 300 with a grade of C or better
Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the major. May be taken three times for credit toward elective units in the Master of Science in Biology. Lecture only. Formerly BIOL 390. Graded credit/no credit.
BIOL 391. Seminar in Biology. 2 Units.
Prerequisites: BIOL 200, 201, 202 and 300
Topics of current biological interest, presented by guest speakers, current faculty, and students are analyzed with associated primary literature and written summaries. May be taken once for credit toward the major. One hour lecture and three hours activity. Materials fee required. Concurrent enrollment in BIOL 390 and 391 is not allowed. Graded credit/no credit.

BIOL 396A. Directed Study. 1 Unit.
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
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.

BIOL 396B. Directed Study. 2 Units.
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
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.

BIOL 400. Molecular Biology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better and CHEM 223 or CHEM 323
A basic course in molecular biology with emphasis on informational macromolecules and how they direct molecular processes in both eukaryotic and prokaryotic cells. Four hours lecture and six hours laboratory. Materials fee required.

BIOL 413. Biology of Stem Cells. 3 Units.
Prerequisites: BIOL 300 with a grade of C or better
Examination of fundamental concepts and themes in stem cell-based regenerative medicine: pluripotency and reprogramming, cell types, organ systems, stem cells and therapeutics analytics. Experimental approaches and emerging areas in stem cell research addressed in seminars from visiting scholars/scientists and with readings from the primary literature. Three hours lecture.

BIOL 420. Medical Microbiology. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better, and BIOL 320 or consent of instructor
An overview of topics and lab techniques in medical microbiology, emphasizing the biology of medically relevant bacteria, viruses, fungi and protozoa. The course will focus on the host-pathogen interaction, including the actions of the pathogenic microorganism and the immune response, as well as the overall host microbiome as an ecosystem perturbed by infection. Four hours of lecture and six hours laboratory. Materials fee required.

BIOL 423. Genetics. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better
Principles of classical and modern genetics including an introduction to population genetics. Four hours lecture and three hours laboratory. Materials fee required. Formerly BIOL 421 and BIOL 422.

BIOL 424. Comparative Animal Physiology. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better
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.

BIOL 431. Comparative Plant Physiology. 6 Units.
Prerequisites: BIOL 300 with a grade of C or better, and CHEM 223 or CHEM 323
Analysis of physiological activity at the various levels of cells, tissues, organs and organisms. Four hours lecture and six hours laboratory. Materials fee required.

BIOL 440. Principles of Development. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better, and CHEM 223 or 323
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.

BIOL 450. Ecology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better; and MATH 120, MATH 192 or MATH 211; or consent of instructor
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.

BIOL 455. Marine Biology and Ecology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better or consent of instructor
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.

BIOL 490A. Special Topics. 1 Unit.
Prerequisites: BIOL 300 with a grade of C or better and consent of instructor
Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change.

BIOL 490B. Special Topics. 2 Units.
Prerequisites: BIOL 300 with a grade of C or better and consent of instructor
Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change.

BIOL 490C. Special Topics. 3 Units.
Prerequisites: BIOL 300 with a grade of C or better and consent of instructor
Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change.
BIOL 490D. Special Topics. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better and consent of instructor
Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change.

BIOL 491A. Special Laboratory Topics. 1 Unit.
Prerequisites: BIOL 300 with a grade of C or better and 15 units of upper-division biology course work
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.

BIOL 491B. Special Laboratory Topics. 2 Units.
Prerequisites: BIOL 300 with a grade of C or better and 15 units of upper-division biology course work
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.

BIOL 491C. Special Laboratory Topics. 3 Units.
Prerequisites: BIOL 300 with a grade of C or better and 15 units of upper-division biology course work
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.

BIOL 502. Genetic Engineering. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better, BIOL 400, and CHEM 223 or 323
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.

BIOL 503. Plant Biology for Teachers. 4 Units.
Prerequisites: one college-level biology course and graduate or post-baccalaureate standing, or consent of instructor
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.

BIOL 505. Biostatistics. 5 Units.
Prerequisites: BIOL 300 with a grade of "C" or better, MATH 192 or 211, and consent of instructor
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.

BIOL 513. Animal Tissue Culture. 3 Units.
Prerequisites: BIOL 300
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.

BIOL 514. Conservation Biology. 4 Units.
Prerequisites: BIOL 300 with a grade of "C" or better, and BIOL 321 or 450
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.

BIOL 515. Global Change Biology. 4 Units.
Prerequisites: BIOL 300 with a grade of "C" or better, and an upper-division lab course in ecology (BIOL 349, BIOL 450, or BIOL 455) or consent of instructor
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.

BIOL 522. Population Genetics. 4 Units.
Prerequisites: BIOL 423 and MATH 192 or 211
Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture.

BIOL 524. Advanced Vertebrate Morphology. 3 Units.
Prerequisites: BIOL 342, BIOL 424 and consent of instructor
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.

BIOL 525. Vertebrate Field Biology. 5 Units.
Prerequisites: BIOL 300 with a grade of C or better, BIOL 450, and consent of instructor. Three hours lecture and six hours laboratory
Field study of the ecology and natural history of the vertebrate fauna of southern California.

BIOL 528. Concepts of Molecular Genetics. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better, BIOL 400, 423, and CHEM 223 or 323
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.
BIOL 530. Scanning Electron Microscopy. 5 Units.
Prerequisites: senior standing and consent of instructor
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.)

5 Units.
Prerequisites: senior standing and consent of instructor
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.)

BIOL 532. Techniques in Ultrastructure Analysis. 5 Units.
Prerequisites: BIOL 530 or 531 or GEOL 530 or 531 and consent of
instructor
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.)

BIOL 555. Comparative Biomechanics. 5 Units.
Prerequisites: BIOL 300 with grade of C or better, PHYS 121, PHYS 122,
or consent of instructor
Examination and quantitative analysis of structure and function of
animals and plants using physical principles. Application of fluid and solid
mechanics to understanding the design and behavior of biologic materials.
Four hours lecture and three hours laboratory. Materials fee required.

BIOL 565. Physiological Ecology. 6 Units.
Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450
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.

BIOL 572. Virology. 4 Units.
Prerequisites: BIOL 400 with a grade of "C" or better
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.

BIOL 573. Immunology. 5 Units.
Prerequisites: BIOL 400 with a grade of "C" or better
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.

BIOL 575A. Internship in Biology: General. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575B. Internship in Biology: Pre-Health.
2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575C. Internship in Biology; Biotechnology. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575D. Internship in Biology: Wildlife Biology. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575E. Internship in Biology: Botany. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575F. Internship in Biology: Science Education. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.

BIOL 575G. Internship in Biology: Museum Science. 2 Units.
Prerequisites: department approval in the quarter prior to registration
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.
BIOL 576. Endocrinology. 4 Units.  
Prerequisites: BIOL 300 with a grade of C or better  
Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. Formerly BIOL 486.

BIOL 580. Neurobiology. 4 Units.  
Prerequisites: BIOL 300 with a grade of C or better  
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.

BIOL 590A. Senior Seminar: Molecular. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590B. Senior Seminar: Biosystematics. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590C. Senior Seminar: Cellular. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590D. Senior Seminar: Physiology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590E. Senior Seminar: Ecology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590F. Senior Seminar: Bioethics. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590G. Senior Seminar: Genetics. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590H. Senior Seminar: Evolution. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590I. Senior Seminar: Microbiology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590J. Senior Seminar: Zoology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590K. Senior Seminar: Botany. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590L. Senior Seminar: Integrative Approach to Biology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 590M. Senior Seminar: Conservation Biology. 2 Units.  
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  
Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change.

BIOL 591. Biology Seminar. 1 Unit.  
Prerequisites: BIOL 300 with a grade of C or better  
Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the major. May be taken three times for credit toward elective units in the Master of Science in Biology. Lecture only. Formerly BIOL 390. Graded credit/no credit.
BIOL 592. Recombinant DNA Techniques. 4 Units.
Prerequisites: BIOL 300 with a grade of C or better and BIOL 400 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.

BIOL 595D. Independent Study. 4 Units.
Prerequisites: a minimum overall grade point average of 3.0, 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. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair each quarter until their projects are completed. Laboratory and/or library research in selected areas of biology conducted under the direction of a faculty member in the Department of Biology. A total of six units in BIOL 596 may be applied toward graduation. Graded credit/no credit.

BIOL 596A. Independent Research. 1 Unit.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.

BIOL 596B. Independent Research. 2 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.

BIOL 596C. Independent Research. 3 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.

BIOL 596D. Independent Research. 4 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.

BIOL 596E. Independent Research. 5 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.

BIOL 596F. Independent Research. 6 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. 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.
BIOL 597. Directed Study in Science Education. 1 Unit.
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.
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.

BIOL 600. Advanced Topics in Molecular Biology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change.

BIOL 601. Teaching Assistant Training in Biology. 2 Units.
Prerequisites: classified standing in Masters Degree Program.
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.

BIOL 605. Advanced Topics in Cell Biology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in cell biology. May be repeated for credit as topics change.

BIOL 620. Advanced Topics in Plant Biology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change.

BIOL 622. Advanced Topics in Zoology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in zoology. May be repeated for credit as topics change.

BIOL 624. Advanced Topics in Physiology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change.

BIOL 650. Advanced Topics in Genetics. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change.

BIOL 651. Advanced Topics in Molecular Genetics. 2 Units.
Prerequisites: consent of instructor.
An in-depth examination of current research in molecular genetics. May be repeated as topics change.

BIOL 660. Advanced Topics in Development. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in developmental biology. May be repeated for credit as topics change.

BIOL 664. Biosystematics. 2 Units.
Prerequisites: BIOL 423 and one taxonomy-based course; e.g. BIOL 319, 331, 335, 342, 353, or 354. Recommended: MATH 305.
Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used.

BIOL 670. Advanced Topics in Ecology. 2 Units.
Prerequisites: BIOL 450 or equivalent.
Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change.

BIOL 675. Advanced Topics in Parasitology. 2 Units.
Prerequisites: consent of instructor.
An in-depth consideration of selected research areas in parasitology. May be repeated for credit as topics change.

BIOL 677. Advanced Topics in Immunology. 2 Units.
Prerequisites: consent of instructor.
An in-depth examination of current research in cellular and molecular immunology. May be repeated for credit as topics change.

BIOL 678. Advanced Topics in Microbiology. 2 Units.
Prerequisites: BIOL 220 or BIOL 320.
An in-depth examination of current research in microbiology. May be repeated for credit as topics change.

BIOL 680. Advanced Topics in Evolution. 2 Units.
Prerequisites: consent of instructor.
Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change.

BIOL 690. Graduate Seminar in Biology. 2 Units.
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.
BIOL 691. Current Topics in Biology. 1 Unit.
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.

BIOL 692A. Graduate Research Methods in Biology. 1 Unit.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
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.

BIOL 692B. Graduate Research Methods in Biology. 2 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
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.

BIOL 692C. Graduate Research Methods in Biology. 3 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
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.

BIOL 696A. Directed Graduate Research in Biology. 1 Unit.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 696B. Directed Graduate Research in Biology. 2 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 696C. Directed Graduate Research in Biology. 3 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 696D. Directed Graduate Research in Biology. 4 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 696E. Directed Graduate Research in Biology. 5 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 696F. Directed Graduate Research in Biology. 6 Units.
Prerequisites: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Formerly BIOL 695A, BIOL 695B and BIOL 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.

BIOL 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Gradate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
BIOL 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 698G. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 699A. Thesis Research and Thesis I. 3 Units.
Prerequisites: advancement to candidacy
Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. BIOL 699A, BIOL 699B and BIOL 699C must be completed for a total of nine units. To retain their classified standing in the masters 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.
BIOL 699B. Thesis Research and Thesis II. 3 Units.
Prerequisites: advancement to candidacy
Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. BIOL 699A, BIOL 699B and BIOL 699C must be completed for a total of nine units. To retain their classified standing in the masters 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.

BIOL 699C. Thesis Research and Thesis III. 3 Units.
Prerequisites: advancement to candidacy
Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. BIOL 699A, BIOL 699B and BIOL 699C must be completed for a total of nine units. To retain their classified standing in the masters 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.

BIOL 980. Biology Colloquium. 0 Units.
Required for all students using department research facilities or completing graduate program graduation requirements. Students are required to attend two meetings per quarter, one meeting in the first week of classes and one during the eighth week.

BIOL 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>Organic chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A minimum of nine units chosen from Group A or B below:</td>
<td>9-15</td>
<td></td>
</tr>
</tbody>
</table>

Group A:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
</tr>
</tbody>
</table>

Upper-division requirements (41)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300</td>
<td>Cell Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 400</td>
<td>Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 423</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 450</td>
<td>Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 455</td>
<td>Marine Biology and Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 591</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

A minimum of 20 units of upper-division biology courses (excluding BIOL 301, BIOL 304, BIOL 305, BIOL 306, BIOL 314, BIOL 349 and BIOL 503), with at least one course from each of Groups A and B:

Group A:

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 319</td>
<td>Local Flora</td>
</tr>
<tr>
<td>BIOL 354</td>
<td>Biology of Higher Plants</td>
</tr>
<tr>
<td>BIOL 431</td>
<td>Comparative Plant Physiology</td>
</tr>
</tbody>
</table>

Group B:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 320</td>
<td>Microorganisms</td>
</tr>
<tr>
<td>BIOL 323</td>
<td>Human Anatomy for Biology Majors</td>
</tr>
<tr>
<td>BIOL 324</td>
<td>Human Physiology for Biology Majors</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Biology of Invertebrates</td>
</tr>
<tr>
<td>BIOL 335</td>
<td>Entomology</td>
</tr>
<tr>
<td>BIOL 340</td>
<td>Comparative Embryology</td>
</tr>
<tr>
<td>BIOL 342</td>
<td>Biology of Chordates</td>
</tr>
<tr>
<td>BIOL 371</td>
<td>Parasitology</td>
</tr>
<tr>
<td>BIOL 420</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>BIOL 424</td>
<td>Comparative Animal Physiology</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>Principles of Development</td>
</tr>
<tr>
<td>BIOL 524</td>
<td>Advanced Vertebrate Morphology</td>
</tr>
<tr>
<td>BIOL 573</td>
<td>Immunology</td>
</tr>
</tbody>
</table>

Total Units 94-102

Bachelor of Arts in Biology - Integrated Teaching Track

Requirements (145-154 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
</tr>
</tbody>
</table>

Group B:

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
</tr>
</tbody>
</table>

A minimum of thirteen units chosen from Group A or B below: 13-15

Group A:

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
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</table>

Group B:

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<tr>
<td>PHYS 221</td>
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<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
</tr>
</tbody>
</table>

Bachelor of Arts 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

<table>
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<tr>
<th>Lower-division requirements (53-61)</th>
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</table>

Organic chemistry
A minimum of nine units chosen from Group A or B below: 9-15

<table>
<thead>
<tr>
<th>Group A:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221A  Organic Chemistry I Lecture</td>
</tr>
<tr>
<td>CHEM 222A  Organic Chemistry II Lecture</td>
</tr>
<tr>
<td>CHEM 223A  Organic Chemistry III Lecture</td>
</tr>
<tr>
<td>Group B:</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>CHEM 321  Principles of Organic Chemistry I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group A:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121  Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122  Basic Concepts of Physics II</td>
</tr>
<tr>
<td>PHYS 123  Basic Concepts of Physics III</td>
</tr>
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</table>

A minimum of thirteen units chosen from Group A or B below: 13-15

<table>
<thead>
<tr>
<th>Upper-division requirements (44-45)</th>
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</thead>
<tbody>
<tr>
<td>ASTR 311  A Cosmic Perspective of Earth</td>
<td>5</td>
</tr>
<tr>
<td>or GEOL 309  Earth: The Blue Planet</td>
<td></td>
</tr>
<tr>
<td>BIOL 300  Cell Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 321  Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 400  Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 423  Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 575F  Internship in Biology: Science Education</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 450  Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 455  Marine Biology and Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 319  Local Flora</td>
<td>5-6</td>
</tr>
<tr>
<td>or BIOL 354  Biology of Higher Plants</td>
<td></td>
</tr>
<tr>
<td>BIOL 323  Human Anatomy for Biology Majors</td>
<td>6</td>
</tr>
<tr>
<td>or BIOL 342  Biology of Chordates</td>
<td></td>
</tr>
<tr>
<td>BIOL 597  Directed Study in Science Education (repeat for additional credit)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education Courses (48)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ESEC 405  Introduction to Secondary School Culture</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 407  Secondary School Teaching</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 410  Adolescent Development and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 413  Language Interaction in the Classroom</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 417  Educational Psychology: Instructional Theory, Assessment and Classroom Management</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 419  Literacy Across the Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 506L  Curriculum and Instruction in the Content Areas: Life and Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 550A  Student Teaching Experience</td>
<td>2</td>
</tr>
<tr>
<td>ESEC 512  Assessment Seminar: Designing Instruction &amp; ESEC 550B and Student Teaching II</td>
<td>6</td>
</tr>
<tr>
<td>ESEC 513  Assessment Seminar: Assessment Learning &amp; ESEC 514 and Assessment Seminar: Culminating Teaching Experience</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 550C  Student Teaching III</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units 145-154

Bachelor of Arts in Biology - Pre-Med Option

Requirements (97-99 units)

<table>
<thead>
<tr>
<th>CHEM 322  Principles of Organic Chemistry II</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 323  Principles of Organic Chemistry III</td>
</tr>
<tr>
<td>MATH 192  Methods of Calculus</td>
</tr>
<tr>
<td>or MATH 211  Basic Concepts of Calculus</td>
</tr>
<tr>
<td>A minimum of thirteen units chosen from Group A or B below: 13-15</td>
</tr>
<tr>
<td>Group A:</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>PHYS 121  Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122  Basic Concepts of Physics II</td>
</tr>
<tr>
<td>PHYS 123  Basic Concepts of Physics III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221  General Physics I</td>
</tr>
<tr>
<td>PHYS 222  General Physics II</td>
</tr>
<tr>
<td>PHYS 223  General Physics III</td>
</tr>
</tbody>
</table>

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.

**Requirements for the B.A. in Biology - Pre-Med Option**

**Lower-division requirements (56-58)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
</tbody>
</table>

**Organic Chemistry**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 221B</td>
<td>Organic Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 222B</td>
<td>Organic Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 223B</td>
<td>Organic Chemistry III Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td></td>
</tr>
</tbody>
</table>

A minimum of thirteen units, chosen from Group A or B below:

**Group A:**

- PHYS 121 Basic Concepts of Physics I
- PHYS 122 Basic Concepts of Physics II
- PHYS 123 Basic Concepts of Physics III
- PHYS 221 General Physics I
- PHYS 222 General Physics II
- PHYS 223 General Physics III

**Upper-division requirements (41)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300</td>
<td>Cell Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 400</td>
<td>Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 423</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 450</td>
<td>Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 455</td>
<td>Marine Biology and Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 591</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

A minimum of 20 units of upper-division biology courses (excluding BIOL 301, BIOL 304, BIOL 305, BIOL 306, BIOL 314, BIOL 349 and BIOL 503), with at least one course from each of Groups A, B, and C:

**Group A:**

- BIOL 319 Local Flora
- BIOL 354 Biology of Higher Plants

**Bachelor of Science in Bioinformatics**

**Requirements (118 units)**

Total units required for graduation: 180

**Requirements for the B.S. in Bioinformatics**

**Lower-division requirements (66)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CSE 122</td>
<td>Bioinformatics</td>
<td>2</td>
</tr>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 191</td>
<td>Introduction to Ethics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units**

97-99
Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
</tbody>
</table>

Organic chemistry

A minimum of twelve units chosen from Group A or B below: 12-15

Group A:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221</td>
<td>Organic Chemistry I Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Organic Chemistry I Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 222</td>
<td>Organic Chemistry II Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 222</td>
<td>Organic Chemistry II Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 223</td>
<td>Organic Chemistry III Lecture</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 223</td>
<td>Organic Chemistry III Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

Group B:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
<td>2</td>
</tr>
</tbody>
</table>

Chemistry

CHEM 345 | Modern Quantitative Analysis | 4-5 |

Total Units 112-118

Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units 112-118
### Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Chemical Bonding</td>
<td></td>
</tr>
<tr>
<td>BIOL 300</td>
<td>Cell Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 321</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 400</td>
<td>Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 423</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 450</td>
<td>Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 514</td>
<td>Conservation Biology</td>
<td>2-4</td>
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<tr>
<td>BIOL 590M</td>
<td>Senior Seminar: Conservation Biology</td>
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<tr>
<td>BIOL 591</td>
<td>Biology Seminar</td>
<td>1</td>
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</table>

Either Group 1 or 2 below:

**Group 1:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 354</td>
<td>Biology of Higher Plants</td>
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</tr>
<tr>
<td>BIOL 424</td>
<td>Comparative Animal Physiology</td>
<td></td>
</tr>
</tbody>
</table>

**Group 2:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 431</td>
<td>Comparative Plant Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Biology of Invertebrates</td>
<td></td>
</tr>
<tr>
<td>BIOL 342</td>
<td>Biology of Chordates</td>
<td></td>
</tr>
</tbody>
</table>

One course (4-6 units) chosen from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 319</td>
<td>Local Flora</td>
<td></td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Vertebrate Field Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 455</td>
<td>Marine Biology and Ecology</td>
<td></td>
</tr>
</tbody>
</table>

#### Upper-division requirements (60-64)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 222</td>
<td>Population Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 565</td>
<td>Physiological Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 505</td>
<td>Biostatistics</td>
<td>5</td>
</tr>
<tr>
<td>or PSYC 410</td>
<td>Advanced Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Note: Students should complete BIOL 450 before getting consent of the instructor to enroll in PSYC 410 without the formal prerequisite.

A minimum of 12 units of upper-division elective course work in biology (excluding BIOL 301, BIOL 304, BIOL 305, BIOL 306, BIOL 314, BIOL 349 and BIOL 503), selected in consultation with an advisor in the student’s area of specialization.

**Total Units**

**116-125**
 Bachelor of Science 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 BIOL 200, BIOL 201 and BIOL 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.

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 and Doctor of Osteopathic Medicine Articulation Program

#### Lower-division courses (56-61)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>Organic Chemistry</td>
<td>6</td>
</tr>
</tbody>
</table>

A minimum of twelve units, chosen from Group A or B below:

**Group A:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 221B</td>
<td>Organic Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 222B</td>
<td>Organic Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 223B</td>
<td>Organic Chemistry III Lab</td>
<td></td>
</tr>
</tbody>
</table>

**Group B:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
<td></td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td></td>
</tr>
</tbody>
</table>

A minimum of thirteen units, chosen from Group A or B below:

**Group A:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
<td></td>
</tr>
</tbody>
</table>

**Group B:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td></td>
</tr>
</tbody>
</table>

### Upper-division requirements (60)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300</td>
<td>Cell Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 320</td>
<td>Microorganisms</td>
<td>6</td>
</tr>
</tbody>
</table>
or BIOL 420  Medical Microbiology
BIOL 323  Human Anatomy for Biology Majors  6
BIOL 324  Human Physiology for Biology Majors  6
BIOL 354  Biology of Higher Plants  6
BIOL 400  Molecular Biology  5
BIOL 423  Genetics  5
BIOL 424  Comparative Animal Physiology  6
BIOL 450  Ecology  5
or BIOL 455  Marine Biology and Ecology
CHEM 436A  Biochemistry I  4
CHEM 437A  Biochemistry II  3
CHEM 438A  Biochemistry III  3
Other courses which may be use for preparation for the program include:

BIOL 342  Biology of Chordates
BIOL 371  Parasitology
BIOL 380  Medical and Economic Botany
BIOL 572  Virology
BIOL 573  Immunology
BIOL 576  Endocrinology
BIOL 580  Neurobiology

Total Units 116-121

Application deadlines for fall, winter and spring quarter admission are May 1, October 1, and January 15, respectively.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology, if a thesis project is selected;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the Department of Biology Graduate Committee, and with a minimum grade point average of 3.0 ("B");
4. Gained a recommendation for advancement to candidacy from the Department of Biology Graduate Committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the Department of Biology Graduate Committee;
6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with no less than 32 units completed in residence at this university and with at least 24 units gained from 600-level courses in biology;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in each course in the program;
4. Completion of a final oral examination concluded by acceptance of the thesis (Plan I); or satisfactory completion of the Comprehensive Final Examination (Plan II);
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 electing this program, Plan I below, must conduct an original research study and from these efforts write a thesis acceptable to the department to fulfill this requirement require prior approval of the Department Graduate Committee and thesis advisor.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 601</td>
<td>Teaching Assistant Training in Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 690</td>
<td>Graduate Seminar in Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 692B</td>
<td>Graduate Research Methods in Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 699A</td>
<td>Thesis Research and Thesis I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 699B</td>
<td>Thesis Research and Thesis II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 699C</td>
<td>Thesis Research and Thesis III</td>
<td>3</td>
</tr>
</tbody>
</table>

Five of the 600-level courses in Biology listed under “Course Categories” A, B, and C. (List follows Plan II.) 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

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.

Total Units 45

Plan II: Non-Thesis Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 601</td>
<td>Teaching Assistant Training in Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 690</td>
<td>Graduate Seminar in Biology</td>
<td>2</td>
</tr>
</tbody>
</table>

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

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. 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.
BIOL 999  Comprehensive Examination (successfully complete)  0

Total Units  37

Course Categories

A. Cellular and Molecular Biology (30)
- 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 (53)
- 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  4
- BIOL 573  Immunology  5
- BIOL 580  Neurobiology  4
- BIOL 590D  Senior Seminar: Physiology  2
- BIOL 590F  Senior Seminar: Bioethics  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 (24)
- 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

BIOL 202  Biology of Populations  5
BIOL 300  Cell Physiology  5
CHEM 206  Fundamentals of Chemistry II: Organic Chemistry  5
CHEM 215  General Chemistry I: Atomic Structure and Chemical Bonding  6
CHEM 216  General Chemistry II: Principles of Chemical Reactions  6

Four units chosen from:
- MATH 120  Pre-Calculus Mathematics
- MATH 192  Methods of Calculus
- MATH 211  Basic Concepts of Calculus

Physics
- Five units chosen from:
  - PHYS 100  Physics in the Modern World
  - PHYS 121  Basic Concepts of Physics I
  - PHYS 221  General Physics I

A minimum of ten upper-division units (2 courses) in biology.  10

Total Units  56

Certificate in Biotechnology

Requirements (28 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Admission to the Program

One of the following:

Group 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

Minor in Biology

Requirements (56 units)

Requirements for a minor in Biology

BIOL 200  Biology of the Cell  5
BIOL 201  Biology of Organisms  5
CHEM 223A  Organic Chemistry III Lecture

Group B:
Completion of a B.A. or B.S. in Biology, Chemistry or Biochemistry at this university, or equivalent.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 400</td>
<td>Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 502</td>
<td>Genetic Engineering</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 592</td>
<td>Recombinant DNA Techniques</td>
<td>4</td>
</tr>
</tbody>
</table>

A minimum of 15 units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 320</td>
<td>Microorganisms</td>
<td></td>
</tr>
<tr>
<td>BIOL 573</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIOL 575A</td>
<td>Internship in Biology: General</td>
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<td>BIOL 575B</td>
<td>Internship in Biology: Pre-Health</td>
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</tr>
<tr>
<td>BIOL 575C</td>
<td>Internship in Biology; Biotechnology</td>
<td></td>
</tr>
<tr>
<td>BIOL 575D</td>
<td>Internship in Biology: Wildlife Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 575E</td>
<td>Internship in Biology: Botany</td>
<td></td>
</tr>
<tr>
<td>BIOL 575F</td>
<td>Internship in Biology: Science Education</td>
<td></td>
</tr>
<tr>
<td>BIOL 575G</td>
<td>Internship in Biology: Museum Science</td>
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</tr>
<tr>
<td>BIOL 590A</td>
<td>Senior Seminar: Molecular</td>
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</tr>
<tr>
<td>BIOL 596A-F</td>
<td>Independent Research</td>
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<tr>
<td>CHEM 436A</td>
<td>Biochemistry I</td>
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</tr>
<tr>
<td>CHEM 436B</td>
<td>Biochemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 437A</td>
<td>Biochemistry II</td>
<td></td>
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<td>CHEM 437B</td>
<td>Biochemistry II</td>
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<tr>
<td>CHEM 438A</td>
<td>Biochemistry III</td>
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<tr>
<td>CHEM 438B</td>
<td>Biochemistry III</td>
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</table>

Total Units: 28
Department of Chemistry and Biochemistry

Accredited by the American Chemical Society

Department of Chemistry and Biochemistry
Chemical Science Building, Room CS-204
(909) 537-5318 Department of Chemistry and Biochemistry website (http://chem.csusb.edu)

Bachelor of Arts
• Chemistry
• Chemistry
• Biochemistry Option
• Integrated Teaching Track

Bachelor of Science
• Bioinformatics
• Chemistry
• ACS Certified Option
• Biochemistry Option

Master of Science
• Earth and Environmental Sciences

Minor
• Chemistry

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.

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 or another demonstration of ability to do independent work in chemistry.

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 Department of Chemistry website (http://chem.csusb.edu)

Department of Geological Sciences
Biological Sciences Building, Room 113A
(909) 537-5336 Department of Geological Sciences website (http://geology.csusb.edu)

Current Faculty
Kimberley R. Cousins, Professor
B.S. 1984, Duke University
Ph.D. 1991, University of Texas, Austin

Yu Jung Kim, Associate Professor
B.S. 1995, M.S. 1995, Ph.D. 2002, University of California, Riverside

David F. Maynard, Professor
B.S. 1976, California State University, San Bernardino
M.S. 1988, California State University, Long Beach
Ph.D. 1992, University of California, Riverside

Larry M. Mink, Professor
B.S. 1984, Hebrew University of Jerusalem
M.S. 1986, Ph.D. 1990, University of California, Riverside

James A. Noblet, Professor
B.S. 1983, University of California, Los Angeles
M.S. 1991, California State University, Long Beach
Ph.D. 1997, University of California, Los Angeles

Lisa Shamansky, Professor
B.S. 1980, Indiana University, Bloomington
Ph.D. 1986, University of Illinois, Urbana

Douglas C. Smith, Professor
B.A. 1988, Wittenburg University, Ohio
Ph.D. 1994, Purdue University

Brett J. Stanley, Professor, Chair
B.S. 1987, University of Pittsburgh
Ph.D. 1992, Utah State University

John Tate, Associate Professor
Undergraduate Degrees

Bachelor of Arts

- Chemistry
  - Chemistry (p. 600)
  - Biochemistry Option (p. 599)
  - Integrated Teaching Track (p. 600)

Bachelor of Science

- Bioinformatics (p. 584)
- Chemistry
  - ACS Certified Option (p. 602)
  - Biochemistry Option (p. 602)

Graduate Degree

- Master of Science in Earth and Environmental Sciences (p. 603) with concentrations in:
  - Professional Science Masters
  - Geology

Minor

- Chemistry (p. 605)

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 103</td>
<td>Descriptive Astronomy</td>
<td>5</td>
</tr>
<tr>
<td>ASTR 311</td>
<td>A Cosmic Perspective of Earth</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
<td>5</td>
</tr>
<tr>
<td>NSCI 300</td>
<td>Science and Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

or GEOL 309  Earth: The Blue Planet

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required, or the specific requirements of the single subject teaching credential in science program, contact the Department of Science, Mathematics, and Technology Education in the College of Education.

Courses

CHEM 100. Chemistry in the Modern World. 5 Units.

Prerequisites: satisfactory score on the Entry Level Mathematics examination (GE=B.3)

Offered: Fall, Winter and Spring

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.

CHEM 105. Chemicals in Our Environment. 2 Units.

(GE=B4)

Offered: Fall, Winter and Spring

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.

CHEM 205. Fundamentals of Chemistry I: General Chemistry. 5 Units.

Prerequisites: one year of high school algebra

Prerequisite/Corequisite: MATH 90 or above (GE=B.3)

Offered: Fall, Winter and Spring

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.

CHEM 206. Fundamentals of Chemistry II: Organic Chemistry. 5 Units.

Prerequisites: CHEM 205 or CHEM 215

Offered: Winter

Introduction to the chemistry of organic compounds. Four hours lecture and three hours laboratory. Materials fee required.
CHEM 207. Fundamentals of Chemistry III: Biochemistry. 5 Units.
Prerequisites: CHEM 206
Offered: Spring
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.

CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding. 6 Units.
Prerequisites: one year of high school chemistry and three years of high school mathematics, or their equivalents; completion of, concurrent enrollment in or qualification for MATH 110 by Entry Level Mathematics examination (GE=B.3)
Offered: Fall and Winter
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.

CHEM 216. General Chemistry II: Principles of Chemical Reactions. 6 Units.
Prerequisites: CHEM 215 with a grade of C- or better
Offered: Winter and Spring
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.

CHEM 221A. Organic Chemistry I Lecture. 3 Units.
Prerequisites: CHEM 215 with a grade of "C" or better and CHEM 216 with a grade of "C-" or better
Offered: Fall
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, CHEM 222A, and CHEM 223A) without the lab sequence (CHEM 221B, CHEM 222B, and CHEM 223B) is inappropriate for premedical, pre dental and other pre-health professions students and for all majors and minors except the B.A. major in biology. Chemistry majors (except the B.A. in Chemistry, Biochemistry Option) are expected to take the Principles of Organic Chemistry sequence (CHEM 321, CHEM 322 and CHEM 332). Lecture only.

CHEM 221B. Organic Chemistry I Lab. 1 Unit.
Prerequisites: CHEM 215
Prerequisite/Corequisite: CHEM 221A
Laboratory. An introduction to experimental techniques in organic chemistry. Three hours of laboratory. Materials fee required.

CHEM 222A. Organic Chemistry II Lecture. 3 Units.
Prerequisites: CHEM 221A with a grade of "C" or better
Offered: Winter
Lecture. Continuation of CHEM 221A. Three hours lecture.

CHEM 222B. Organic Chemistry II Lab. 1 Unit.
Prerequisites: CHEM 221B
Prerequisite/Corequisite: CHEM 222A
Laboratory. Continuation of CHEM 221B. Three hours laboratory. Materials fee required.

CHEM 223A. Organic Chemistry III Lecture. 3 Units.
Prerequisites: CHEM 222A or equivalent with a grade of C- or better
Offered: Spring
Continuation of CHEM 222A. Three hours lecture.

CHEM 223B. Organic Chemistry III Lab. 1 Unit.
Prerequisites: CHEM 222B
Prerequisite/Corequisite: CHEM 223A
Laboratory. Continuation of CHEM 222B. Three hours laboratory. Materials fee required.

CHEM 295A. Special Projects in Chemistry. 1 Unit.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
Individual investigation, research, study or survey of selected problems. May be repeated for credit as topics change.

CHEM 295B. Special Projects in Chemistry. 2 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
Individual investigation, research, study or survey of selected problems. May be repeated for credit as topics change.

CHEM 301. Service Learning in Chemistry. 1 Unit.
Prerequisites: consent of instructor and pertinent course work
Offered: Fall, Winter and Spring
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: CHEM 215 and CHEM 216 with grades of "C" or better in each course
Offered: Fall
Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Three hours lecture and six hours laboratory. Materials fee required.

CHEM 322. Principles of Organic Chemistry II. 5 Units.
Prerequisites: CHEM 321 with a grade of C or better
Offered: Winter
Continuation of CHEM 321. Three hours lecture and six hours laboratory. Materials fee required.
CHEM 323. Principles of Organic Chemistry III. 5 Units.
Prerequisites: CHEM 322 with a grade of C or better
Offered: Spring
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.

CHEM 345. Modern Quantitative Analysis. 5 Units.
Prerequisites: CHEM 216 with a grade of "C" or better
Offered: Fall and Spring
Gravimetric and volumetric analysis, chemical equilibria, and modern instrumental methods. Three hours lecture and six hours laboratory. Materials fee required. Formerly CHEM 245.

CHEM 421. Intermediate Organic Chemistry. 5 Units.
Prerequisites: CHEM 223 or equivalent course work
Offered: Spring - alternate years
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.

CHEM 436A. Biochemistry I. 4 Units.
Prerequisites: either CHEM 223 or 323 with grades of "C" or better, and BIOL 200
Offered: Fall and Winter
Lecture. Structure and function of proteins, carbohydrates, and lipids. Four hours lecture. Formerly CHEM 436.

CHEM 436B. Biochemistry I. 1 Unit.
Prerequisite/Corequisite: CHEM 436A
Offered: Fall and Winter
Laboratory. Introduction to experimental techniques in biochemistry and biotechnology. Three hours laboratory. Formerly CHEM 436.

CHEM 437A. Biochemistry II. 3 Units.
Prerequisites: CHEM 436A with a grade of C- or better
Offered: Winter
Lecture. Mechanism and kinetics of enzymes; metabolism of carbohydrates, lipids, and proteins. Three hours lecture.

CHEM 437B. Biochemistry II. 1 Unit.
Prerequisites: CHEM 436B
Prerequisite/Corequisite: CHEM 437A
Offered: Winter
Laboratory. Continuation of CHEM 436B. Three hours laboratory. Materials fee required.

CHEM 438A. Biochemistry III. 3 Units.
Prerequisites: CHEM 437A with a grade of C- or better
Offered: Spring
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.

CHEM 438B. Biochemistry III. 1 Unit.
Prerequisites: CHEM 437B
Prerequisite/Corequisite: CHEM 438A
Offered: Spring
Laboratory. Continuation of CHEM 437B. Three hours laboratory. Materials fee required.

CHEM 451. Physical Chemistry for Biochemists I. 5 Units.
Prerequisites: CHEM 345, CHEM 436A, and CHEM 436B with grades of "C" or better; MATH 213; and PHYS 123 or PHYS 223
Offered: Winter
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.

CHEM 452. Physical Chemistry for Biochemists II. 5 Units.
Prerequisites: CHEM 451
Offered: Spring
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. Fours hours lecture and three hours laboratory. Materials fee required.

CHEM 455. Physical Chemistry I. 5 Units.
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 prerequisite or corequisite. Recommended: MATH 251
Offered: Fall
Gas kinetics, thermodynamics, properties of solutions, phase equilibria, electrochemistry, and surface phenomena. Four hours lecture and three hours laboratory. Materials fee required.

CHEM 456. Physical Chemistry II. 5 Units.
Prerequisites: CHEM 455
Offered: Winter
Quantum mechanics, reaction rates and mechanisms, and crystal structure. Four hours lecture and three hours laboratory. Materials fee required.

CHEM 470. Bioinorganic Chemistry. 3 Units.
Prerequisites: CHEM 223 or CHEM 323 and CHEM 216. Recommended: CHEM 436A and CHEM 436B
Offered: Fall
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.
CHEM 475. Inorganic Chemistry. 5 Units.
Prerequisite/Corequisite: CHEM 223 or CHEM 323
Offered: Spring
Inorganic compounds and reactions. Special emphasis on symmetry, structure, kinetics, and thermodynamic principles. Four hours lecture and three hours laboratory. Materials fee required.

CHEM 500. Topics in Chemistry. 2 Units.
Prerequisites: consent of instructor
Offered: Spring
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.

CHEM 501A. Advanced Laboratory Techniques. 1 Unit.
Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor
Offered: Fall, Winter and Spring
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.

CHEM 501B. Advanced Laboratory Techniques. 2 Units.
Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor
Offered: Fall, Winter and Spring
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.

CHEM 545. Instrumental Analysis. 6 Units.
Prerequisites: CHEM 223 or CHEM 323, CHEM 345 and CHEM 452 or CHEM 456
Offered: Spring - alternate years
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.

CHEM 575A. Internship in Chemistry. 1 Unit.
Prerequisites: course work appropriate to the specific internship and consent of department
Offered: Fall, Winter and Spring
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 masters degree. Graded credit/no credit.

CHEM 575B. Internship in Chemistry. 2 Units.
Prerequisites: course work appropriate to the specific internship and consent of department
Offered: Fall, Winter and Spring
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 masters degree. Graded credit/no credit.

CHEM 575C. Internship in Chemistry. 3 Units.
Prerequisites: course work appropriate to the specific internship and consent of department
Offered: Fall, Winter and Spring
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 masters degree. Graded credit/no credit.

CHEM 575D. Internship in Chemistry. 4 Units.
Prerequisites: course work appropriate to the specific internship and consent of department
Offered: Fall, Winter and Spring
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 masters degree. Graded credit/no credit.

CHEM 575E. Internship in Chemistry. 5 Units.
Prerequisites: course work appropriate to the specific internship and consent of department
Offered: Fall, Winter and Spring
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 masters degree. Graded credit/no credit.

CHEM 576. Chemistry of the Elements. 4 Units.
Prerequisites: CHEM 223 or 323
Offered: Fall - alternate years
Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only.

CHEM 590A. Chemistry Seminar I. 1 Unit.
Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent. Lecture only. Final written report required
Offered: Fall and Spring
Topics of current chemical interest, presented by students, faculty and guest speakers. To be taken once for credit toward the major requirements for graduation.

CHEM 590B. Chemistry Seminar II. 1 Unit.
Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent. Oral presentation required. Prerequisite: CHEM 590A
Offered: Fall and Spring
Topics of current chemical interest, presented by students, faculty and guest speakers. To be taken once for credit toward the major requirements for graduation.

CHEM 595A. Independent Study. 1 Unit.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.
CHEM 595B. Independent Study. 2 Units.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.

CHEM 595C. Independent Study. 3 Units.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.

CHEM 595D. Independent Study. 4 Units.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.

CHEM 595E. Independent Study. 5 Units.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.

CHEM 595F. Independent Study. 6 Units.
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
Offered: Fall, Winter and Spring
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 apply toward the major. Materials fee required.

CHEM 597. Directed Study in Science Education. 1 Unit.
Prerequisites: consent of instructor and departmental approval of a written proposal
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 Credential Option. 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.

CHEM 599. Undergraduate Comprehensive Examination. 0 Units.
Prerequisites: student must be a chemistry major within three quarters of graduation
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.

CHEM 610. Advanced Environmental Chemistry. 5 Units.
Prerequisites: one year of introductory work in chemistry including organic nomenclature e.g. CHEM 205, CHEM 206; or CHEM 215, CHEM 216, and any organic; or consent of instructor. Recommended: CHEM 345 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.

CHEM 690. Graduate Seminar in Environmental Sciences. 2 Units.
Selected topics and reviews of current investigations in the fields of environmental chemistry. Two hours seminar.

CHEM 691B. Graduate Independent Study. 2 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in chemistry or environmental science.

CHEM 691C. Graduate Independent Study. 3 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in chemistry or environmental science.

CHEM 691D. Graduate Independent Study. 4 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in chemistry or environmental science.

CHEM 691D. Supervised Graduate Study in Chemistry. 4 Units.
Prerequisites: classified standing in masters program and consent of advisor
Original individual research in environmental chemistry; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee.
CHEM 695E. Supervised Graduate Study in Chemistry. 5 Units.
Prerequisites: classified standing in masters program and consent of advisor
Original individual research in environmental chemistry; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee.

CHEM 696A. Graduate Project. 1 Unit.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 696B. Graduate Project. 2 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 696C. Graduate Project. 3 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 696D. Graduate Project. 4 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 696E. Graduate Project. 5 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 696F. Graduate Project. 6 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in chemistry, 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.

CHEM 697. Advanced Internship. 4 Units.
Prerequisites: CHEM 575 or GEOL 575 and consent of advisor
Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee.

CHEM 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
CHEM 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 699. Graduate Project or Thesis. 4 Units.
Prerequisites: CHEM 695 or GEOL 695
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.

CHEM 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and good academic standing
Assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts in Chemistry - Biochemistry Option

Requirements (102-109 units)
Total units required for graduate: 180

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

Lower-division requirements (64-66)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:

Sequence A:
- PHYS 121 | Basic Concepts of Physics I
- PHYS 122 | Basic Concepts of Physics II
- PHYS 123 | Basic Concepts of Physics III

Sequence B:
- PHYS 221 | General Physics I
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
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<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
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<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 200</td>
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<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>Organic Chemistry. A minimum of 12 units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 221B</td>
<td>Organic Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 222B</td>
<td>Organic Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
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</tr>
<tr>
<td>CHEM 223B</td>
<td>Organic Chemistry III Lab</td>
<td></td>
</tr>
</tbody>
</table>

Note: Organic Chemistry requirement may be met by taking CHEM 321, CHEM 322, and CHEM 323.

**Upper-division requirements (38-40)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 345</td>
<td>Modern Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 436A</td>
<td>Biochemistry I</td>
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<tr>
<td>CHEM 436B</td>
<td>Biochemistry I</td>
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<td>CHEM 437A</td>
<td>Biochemistry II</td>
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<tr>
<td>CHEM 437B</td>
<td>Biochemistry II</td>
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<tr>
<td>CHEM 438A</td>
<td>Biochemistry III</td>
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<tr>
<td>CHEM 438B</td>
<td>Biochemistry III</td>
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</table>

Ten units chosen from Group A or B below:

<table>
<thead>
<tr>
<th>Group A:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 451</td>
<td>Physical Chemistry for Biochemists I</td>
<td></td>
</tr>
<tr>
<td>CHEM 452</td>
<td>Physical Chemistry for Biochemists II</td>
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<table>
<thead>
<tr>
<th>Group B:</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>CHEM 455</td>
<td>Physical Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 456</td>
<td>Physical Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Bioinorganic Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 475</td>
<td>Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 590A</td>
<td>Chemistry Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 590B</td>
<td>Chemistry Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 300</td>
<td>Cell Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units 102-106

**Bachelor of Arts 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)**

<table>
<thead>
<tr>
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<td>MATH 213</td>
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</table>

One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:

**Sequence A:**

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<tbody>
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<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
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</tbody>
</table>

**Sequence B:**

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</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td></td>
</tr>
</tbody>
</table>

**Upper-division requirements (41)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: Subject to departmental approval the organic chemistry requirement may be met with the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 221B</td>
<td>Organic Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 222B</td>
<td>Organic Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
<td></td>
</tr>
<tr>
<td>CHEM 223B</td>
<td>Organic Chemistry III Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 421</td>
<td>Intermediate Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Modern Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 455</td>
<td>Physical Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 456</td>
<td>Physical Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 475</td>
<td>Inorganic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 590A</td>
<td>Chemistry Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 590B</td>
<td>Chemistry Seminar II</td>
<td>1</td>
</tr>
</tbody>
</table>

Four additional upper-division units in chemistry.

**Total Units** 83-85

**Bachelor of Arts in Chemistry - Integrated Teaching Track**

Requirements (125-127 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.

<table>
<thead>
<tr>
<th>Lower-division requirements (49-51)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215 General Chemistry I: Atomic Structure and Chemical Bonding</td>
</tr>
<tr>
<td>CHEM 216 General Chemistry II: Principles of Chemical Reactions</td>
</tr>
<tr>
<td>MATH 211 Basic Concepts of Calculus</td>
</tr>
<tr>
<td>MATH 212 Calculus II</td>
</tr>
<tr>
<td>MATH 213 Calculus III</td>
</tr>
<tr>
<td>One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:</td>
</tr>
<tr>
<td>Sequence A:</td>
</tr>
<tr>
<td>PHYS 121 Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122 Basic Concepts of Physics II</td>
</tr>
<tr>
<td>PHYS 123 Basic Concepts of Physics III</td>
</tr>
<tr>
<td>Sequence B:</td>
</tr>
<tr>
<td>PHYS 221 General Physics I</td>
</tr>
<tr>
<td>PHYS 222 General Physics II</td>
</tr>
<tr>
<td>PHYS 223 General Physics III</td>
</tr>
</tbody>
</table>

### Organic Chemistry:
- CHEM 221A Organic Chemistry I Lecture 3
- CHEM 221B Organic Chemistry I Lab 1
- CHEM 222A Organic Chemistry II Lecture 3
- CHEM 222B Organic Chemistry II Lab 1
- CHEM 223A Organic Chemistry III Lecture 3
- CHEM 223B Organic Chemistry III Lab 1

Note: Organic Chemistry requirement may be met by taking
- CHEM 321 Principles of Organic Chemistry I
- CHEM 322 Principles of Organic Chemistry II
- CHEM 323 Principles of Organic Chemistry III

<table>
<thead>
<tr>
<th>Upper-division requirements (30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four units chosen from:</td>
</tr>
<tr>
<td>NSCI 300 Science and Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education Courses (46)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 405 Introduction to Secondary School Culture 4</td>
</tr>
<tr>
<td>ESEC 407 Secondary School Teaching 4</td>
</tr>
<tr>
<td>ESEC 410 Adolescent Development and Learning 4</td>
</tr>
<tr>
<td>ESEC 413 Language Interaction in the Classroom 4</td>
</tr>
<tr>
<td>ESEC 417 Educational Psychology: Instructional Theory, Assessment and Classroom Management 4</td>
</tr>
<tr>
<td>ESEC 419 Literacy Across the Curriculum 4</td>
</tr>
<tr>
<td>ESEC 506L Curriculum in the Content Areas: Life and Physical Science 4</td>
</tr>
<tr>
<td>ESEC 520A Teaching Performance Assessment: Subject Specific Task 1 1</td>
</tr>
<tr>
<td>ESEC 520B Teaching Performance Assessments: Designing Instruction Task 2 1</td>
</tr>
<tr>
<td>ESEC 520C Teacher Performance Assessments Assessing Learners Task 3 1</td>
</tr>
<tr>
<td>ESEC 520D Teacher Performance Assessment Culminating Teaching Experiences Task 4 1</td>
</tr>
<tr>
<td>ESEC 550A Student Teaching Experience 2</td>
</tr>
<tr>
<td>ESEC 550B Student Teaching II 4</td>
</tr>
<tr>
<td>ESEC 550C Student Teaching III 8</td>
</tr>
</tbody>
</table>

Total Units: 125-127

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
- or 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
Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
</tr>
</tbody>
</table>

Upper-division requirements (56)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
<td>5</td>
</tr>
</tbody>
</table>

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 Lab
- CHEM 222A Organic Chemistry II Lecture
- CHEM 222B Organic Chemistry II Lab
- CHEM 223A Organic Chemistry III Lecture
- CHEM 223B Organic Chemistry III Lab
- CHEM 421 Intermediate Organic Chemistry
- CHEM 345 Modern Quantitative Analysis | 5
- CHEM 436A Biochemistry I | 4
- CHEM 436B Biochemistry I | 1
- CHEM 455 Physical Chemistry I | 5
- CHEM 456 Physical Chemistry II | 5
- CHEM 475 Inorganic Chemistry | 5
- CHEM 545 Instrumental Analysis | 6
- CHEM 576 Chemistry of the Elements | 4
- CHEM 590A Chemistry Seminar I | 1
- CHEM 590B Chemistry Seminar II | 1

Four additional upper-division units in chemistry. | 4

Additional Requirements (4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 252</td>
<td>Multivariable Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 270</td>
<td>Elementary Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 331</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>CHEM 599</td>
<td>Undergraduate Comprehensive Examination (covering the major field of study, to be taken during the senior year.)</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Units | 108

Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
</tr>
</tbody>
</table>

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
- PHYS 122 Basic Concepts of Physics II
- PHYS 123 Basic Concepts of Physics III

Sequence B:
- PHYS 221 General Physics I
- PHYS 222 General Physics II
- PHYS 223 General Physics III
- BIOL 200 Biology of the Cell | 5
- BIOL 201 Biology of Organisms | 5
- BIOL 202 Biology of Populations | 5

Upper-division requirements (57-61)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
<td>5</td>
</tr>
</tbody>
</table>

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 Lab
- CHEM 222A Organic Chemistry II Lecture
- CHEM 222B Organic Chemistry II Lab
- CHEM 223A Organic Chemistry III Lecture
- CHEM 223B Organic Chemistry III Lab
- CHEM 421 Intermediate Organic Chemistry
- CHEM 345 Modern Quantitative Analysis | 5
- CHEM 436A Biochemistry I | 4
- CHEM 436B Biochemistry I | 1
- CHEM 437A Biochemistry II | 3
- CHEM 437B Biochemistry II | 1
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 geological study and research. This option is intended for students who intern 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 Professional Science Masters (PSM) includes a core curriculum covering the major field of study, to be taken during the senior year. It 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 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.

### 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. Ten units choose Group A or B below:

<table>
<thead>
<tr>
<th>Group A:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 451 Physical Chemistry for Biochemists I</td>
</tr>
<tr>
<td>CHEM 452 Physical Chemistry for Biochemists II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 455 Physical Chemistry I</td>
</tr>
<tr>
<td>CHEM 456 Physical Chemistry II</td>
</tr>
</tbody>
</table>

| CHEM 470 Bioinorganic Chemistry |
| or CHEM 475 Inorganic Chemistry |

| CHEM 590A Chemistry Seminar I |
| CHEM 590B Chemistry Seminar II |

| BIOL 300 Cell Physiology |

One course chosen from:

| BIOL 320 Microorganisms |
| BIOL 400 Molecular Biology |
| BIOL 423 Genetics |
| BIOL 424 Comparative Animal Physiology |
| BIOL 431 Comparative Plant Physiology |
| BIOL 440 Principles of Development |
| BIOL 580 Neurobiology |

| CHEM 599 Undergraduate Comprehensive Examination (covering the major field of study, to be taken during the senior year) |

Total Units: 109-115

### 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 intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student’s scholarship and related activities. Application deadlines for fall, winter and spring 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 science 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.

---

**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.
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 in Graduate Degree and Program Requirements (p. 60).

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 extension courses at the 1000- to 9999-level are not applicable to the graduate program. 300-level courses, other than those specified as extension courses at the 1000- to 9999-level are not applicable to the graduate program.

Undergraduate Electives:

- BIOL 320 Microorganisms
- BIOL 349 Biology of Ecosystems
- BIOL 450 Ecology
- BIOL 455 Marine Biology and Ecology
- CHEM 345 Modern Quantitative Analysis
- GEOG 306 Remote Sensing of the Environment
- GEOG 308 Advanced Geographic Information Systems
- GEOG 350 Conservation and Natural Resources
- GEOG 402 Geographic Information Systems Applications
- GEOG 375 Groundwater Hydrology
- GEOG 376 Field Methods in Hydrology
- GEOG 430 Engineering Geology
- HSCI 380 Toxicology
- HSCI 478 Environmental Health Management
- MGMT 335 Business, Ethics, and Society
- PA 315 Government-Business Relations

Graduate Electives:

- CHEM 501A Advanced Laboratory Techniques
- CHEM 545 Instrumental Analysis
- CHEM 691B-D Graduate Independent Study
- CHEM 697 Advanced Internship
- ECON 545 Economics of Water Resources
- GEOG 650 Environmental Issues of Land Management
- GEOG 510 Scientific Issues in Surface and Groundwater Management
- GEOG 550 Earth Resources
- GEOG 555 Neotectonics and Seismic Hazard Analysis
- GEOG 620 Digital Mapping and GIS for Scientists
- GEOG 621 Graduate Geological Mapping
- GEOG 630 Environmental Geochemistry
- GEOG 635 Low-temperature Geochemistry
- GEOG 691B Graduate Independent Study

Degree Requirements (44-49 units)

Professional Science Masters (PSM) Option (49 units)

Core Courses (41)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 610</td>
<td>Advanced Environmental Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Hydrology and Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 610</td>
<td>Environmental Geosciences</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 690</td>
<td>Graduate Seminar in Environmental Sciences</td>
<td>2</td>
</tr>
<tr>
<td>or GEOL 690</td>
<td>Graduate Seminar in Environmental Sciences</td>
<td></td>
</tr>
<tr>
<td>HSCI 612</td>
<td>Public Health Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PA 620</td>
<td>Regulatory Structure, Policies, and Process in Water Law</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses (8)

A minimum of nine units, including one internship and one graduate study, chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 575A-E</td>
<td>Internship in Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 695D-E</td>
<td>Supervised Graduate Study in Chemistry</td>
<td></td>
</tr>
<tr>
<td>GEOL 575B-D</td>
<td>Internship in Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 695D-E</td>
<td>Supervised Graduate Study in Geology</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 696D</td>
<td>Graduate Project</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 699</td>
<td>Graduate Project or Thesis</td>
<td></td>
</tr>
<tr>
<td>GEOL 696D</td>
<td>Graduate Project</td>
<td></td>
</tr>
<tr>
<td>GEOL 699</td>
<td>Graduate Thesis</td>
<td></td>
</tr>
</tbody>
</table>

Elective Courses (8)

A minimum of 8 units; at least one course must be graduate level.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</tbody>
</table>
GEOL 697 Advanced Internship
HSCI 557 Hazardous Material Control
HSCI 558 Management of Water Quality
HSCI 651 Air Quality Management
PA 672 Administrative Regulation

Total Units 49

Geology Option (44-45 units minimum)

Core Courses (24-25)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 610</td>
<td>Advanced Environmental Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 610</td>
<td>Environmental Geosciences</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 621</td>
<td>Graduate Geological Mapping</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 690</td>
<td>Graduate Seminar in Environmental Sciences</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 695D</td>
<td>Supervised Graduate Study in Geology</td>
<td>4-5</td>
</tr>
<tr>
<td>or GEOL 695D</td>
<td>Supervised Graduate Study in Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 696D</td>
<td>Graduate Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (20)

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 345</td>
<td>Modern Quantitative Analysis</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Geographic Information Systems Applications</td>
</tr>
<tr>
<td>GEOL 375</td>
<td>Groundwater Hydrology</td>
</tr>
<tr>
<td>GEOL 376</td>
<td>Field Methods in Hydrology</td>
</tr>
<tr>
<td>GEOL 430</td>
<td>Engineering Geology</td>
</tr>
</tbody>
</table>

Graduate Electives:

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CHEM 501A-B</td>
<td>Advanced Laboratory Techniques</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Instrumental Analysis</td>
</tr>
<tr>
<td>GEOL 540</td>
<td>Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 545A-B</td>
<td>Laboratory for Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 550</td>
<td>Earth Resources</td>
</tr>
<tr>
<td>GEOL 551</td>
<td>Neotectonics and Seismic Hazard Analysis</td>
</tr>
<tr>
<td>GEOL 552</td>
<td>Volcanology and Volcanic Hazard Assessment</td>
</tr>
<tr>
<td>GEOL 553</td>
<td>Advanced Structural Geology</td>
</tr>
<tr>
<td>GEOL 575B-D</td>
<td>Internship in Geology</td>
</tr>
<tr>
<td>GEOL 595A-F</td>
<td>Independent Study</td>
</tr>
<tr>
<td>GEOL 620</td>
<td>Digital Mapping and GIS for Scientists</td>
</tr>
<tr>
<td>GEOL 630</td>
<td>Environmental Geochemistry</td>
</tr>
<tr>
<td>GEOL 635</td>
<td>Low-temperature Geochemistry</td>
</tr>
<tr>
<td>GEOL 691B-D</td>
<td>Graduat Independent Study</td>
</tr>
<tr>
<td>GEOL 696A-F</td>
<td>Graduate Project</td>
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Total Units 44-45

Minor in Chemistry

Requirements (56-61 units)

Requirements for a minor in Chemistry

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
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CHEM 216 General Chemistry II: Principles of Chemical Reactions 6
A minimum of twelve units, choose Group A or B below: 12-15

Group A:

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CHEM 221A</td>
<td>Organic Chemistry I Lecture</td>
</tr>
<tr>
<td>CHEM 221B</td>
<td>Organic Chemistry I Lab</td>
</tr>
<tr>
<td>CHEM 222A</td>
<td>Organic Chemistry II Lecture</td>
</tr>
<tr>
<td>CHEM 222B</td>
<td>Organic Chemistry II Lab</td>
</tr>
<tr>
<td>CHEM 223A</td>
<td>Organic Chemistry III Lecture</td>
</tr>
<tr>
<td>CHEM 223B</td>
<td>Organic Chemistry III Lab</td>
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Group B:

<table>
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<tr>
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<tbody>
<tr>
<td>CHEM 321</td>
<td>Principles of Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Principles of Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 323</td>
<td>Principles of Organic Chemistry III</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Modern Quantitative Analysis</td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td>or MATH 212</td>
<td>Calculus II</td>
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One year of introductory physics. CSUSB physics sequences that satisfy this requirement are: 13-15

Sequence A:

<table>
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<tbody>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
</tr>
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<td>PHYS 123</td>
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Sequence B:

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<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
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<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
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<td>PHYS 223</td>
<td>General Physics III</td>
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Ten additional upper-division units in chemistry. The following courses may not be used to satisfy this requirement: CHEM 301, CHEM 590A, CHEM 590B, or CHEM 597.

Total Units 56-61
Department of Geological Sciences

Department of Geological Sciences

Biological Sciences Building, Room 113A
(909) 537-5336 Department of Geological Sciences (http://geology.csusb.edu)

Bachelor of Arts
- Geology
- Integrated Teaching Track

Bachelor of Science
- Geology
  - General Geology Option
  - Environmental Geology Option

Master of Science
- Earth and Environmental Sciences

Minor
Geology

The study of geology includes working to understand the chemical, physical and biological processes that affect and are recorded in rocks, minerals, and earth materials; and using that information to decipher the development of our planet. In addition understanding geology is essential for locating necessary earth resources (oil, minerals, water) and solving those environmental problems that affect the Earth’s surface. Much of the information geologists use is obtained by careful, systematic field work and laboratory work, the former being an inherent requirement for geological studies.

The mission of the department is to provide high-quality training in the science of geology so as to equip our students (undergraduate and graduate) to successfully enter the geological workforce, and to contribute to the science of geology through faculty and students conducting and disseminating research in this field. Geology is a broad science that integrates with other classical sciences and disciplines such as astronomy, biology, chemistry, computer science, geography, mathematics, and physics. Course work in those disciplines, integrated within a geological framework, provides students with a broad marketable understanding.

The B.S. degree is recommended for students planning to become professional geologists employed by environmental and geo-technical firms, governmental agencies, oil and mining companies and for those students planning to pursue a graduate degree in geology.

Both the B.S. and B.A. degrees are suitable for students planning a career in K-12 science teaching or environmental law. Students interested in teaching can also enter the B.A. in Geology Integrated Teaching Track and graduate with both a B.A. and a teaching credential.

Geology majors must earn a grade of "C" or better in all required geology courses for those courses to satisfy the degree requirements for a B.A or B.S. degree in Geological Sciences.

Departmental Honors

Students majoring in geological sciences are eligible to earn honors in geological sciences at graduation if the following conditions are met:

1. The student applies to the department for candidacy at the beginning of their senior year;
2. A minimum grade-point average of at least 3.5 in all geology courses has been earned, with a minimum of five geology courses taken at this university.
3. Satisfactory completion of GEOL 597(B-D).

Granting of departmental honors rests with the department faculty.

Course Offerings

The quarters listed for course offerings are tentative.

Current Faculty

Joan E. Fryxell, Professor
B.A. 1977, Earlham College
M.A. 1980, University of Texas
Ph.D. 1984, University of North Carolina

W. Britt Leatham, Associate Professor
B.A. 1995, M.A. 1998, California State University, San Bernardino

Sally McGill, Professor
A.B. 1985, Harvard and Radcliffe
M.S. 1989, Ph.D. 1992, California Institute of Technology

Erik B. Melchiorre, Professor
B.S. 1990, University of Southern California
M.S. 1993, Arizona State University
Ph.D. 1998, Washington University

Alan L. Smith, Professor, Chair
B.Sc. 1963, University of London (Kings College)
Ph.D. 1968, University of California, Berkeley

Emeritus

Louis A. Fernández, Professor, Provost and Vice President for Academic Affairs

Undergraduate Degrees

Bachelor of Arts
- Geology (p. 614)
- Integrated Teaching Track (p. 614)

Bachelor of Science
- Geology (p. 615)
  - General Geology Option
  - Environmental Geology Option

Graduate Degrees
- Master of Science in Earth and Environmental Sciences (p. 603)
Minor

- Geology (p. 616)

Courses

GEOL 101. Introductory Geology. 5 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination (GE=B3)
Offered: Fall, Winter and Spring
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.

GEOL 102. Introductory Geology Laboratory. 1 Unit.
Prerequisites: satisfactory score on the Entry Level Mathematics examination, and the transferable equivalent to the Introductory Geology lecture, and permission of department
Offered: Fall, Winter and Spring
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.

GEOL 205. Volcanic Hazards, Surveillance and Prediction. 2 Units.
(GE=B4)
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.

GEOL 210. Earthquakes: Science and Public Policy. 2 Units.
(GE=B4)
Offered: Fall, Winter and Spring
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.

GEOL 250. Historical Geology. 5 Units.
Offered: Spring
Study of the origin and evolution of the earth and its life forms as interpreted from the rock and fossil record. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required.

GEOL 295A. Special Projects in Geology. 1 Unit.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
Individual investigation, research, study or survey of selected problems.

GEOL 295B. Special Projects in Geology. 2 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
Individual investigation, research, study or survey of selected problems.

GEOL 301. Introduction to Geologic Mapping. 4 Units.
Prerequisites: GEOL 101 or GEOG 103
Offered: Fall
Field identification of igneous, sedimentary, and metamorphic rock units, sample collection, making rock descriptions, use of Brunton compass, pace and compass technique, topographic map reading, location determination, measuring geological features (e.g., strike and dip of bedding, lineation and foliation in metamorphic rocks), plotting geologic features on a topographic map, geologic symbol and notation conventions, topographic profile construction, geologic cross section construction and interpretation, geologic field note taking, and preparing geologic reports. Overnight field trips may be required. Two hours lecture and six hours laboratory. Materials fee required.

GEOL 307A. Service Learning in the Earth Sciences. 1 Unit.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 307B. Service Learning in the Earth Sciences. 2 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 309. Earth: The Blue Planet. 5 Units.
Prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor
Offered: Fall
Tailored for students intending to teach grades K-8. Planet Earth studied as a whole, comprising many separate but interacting systems. Earths 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.

GEOL 310. Regional Field Geology. 2 Units.
Prerequisites: GEOL 101 or consent of instructor
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.

GEOL 312. Geology of California. 4 Units.
Prerequisites: GEOL 101
Offered: Winter
Interpretation of the geological features and evolution of California. Four hours lecture. Overnight field trips may be required. Formerly GEOL 440.
GEOL 320. Mineralogy and Crystallography. 5 Units.
Prerequisites: GEOL 101
Prerequisite/Corequisite: CHEM 205 or CHEM 215
Offered: Fall
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.

GEOL 321. Optical Mineralogy. 3 Units.
Prerequisites: GEOL 320 with a grade of "C" or better
Offered: Winter
Theory and application of petrographic microscopy for the analysis and identification of minerals. One hour lecture and six hours laboratory. Materials fee required.

GEOL 322. Introduction to Geochemistry. 4 Units.
Prerequisites: GEOL 320 with a grade of "C" or better
Offered: Spring
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.

GEOL 325. Igneous and Metamorphic Petrology. 5 Units.
Prerequisites: GEOL 321 with a grade of "C" or better
Offered: Spring
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.

GEOL 330. Sedimentary Petrology. 5 Units.
Prerequisites: GEOL 321 with a grade of "C" or better
Offered: Winter
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.

GEOL 340. Stratigraphy. 5 Units.
Prerequisites: GEOL 330 with a grade of "C" or better
Offered: Spring
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.

GEOL 350. Paleontology. 5 Units.
Prerequisites: GEOL 250
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.

GEOL 360. Structural Geology. 5 Units.
Prerequisites: GEOL 101 and PHYS 121 or PHYS 221
Offered: Winter
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.

GEOL 370. Tectonics. 4 Units.
Prerequisites: GEOL 325, 330 and 360
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.

GEOL 375. Groundwater Hydrology. 4 Units.
Prerequisites: GEOL 101 and MATH 212. Recommended: MATH 251
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.

GEOL 376. Field Methods in Hydrology. 4 Units.
Prerequisites: GEOL 375 with a grade of "C" or better
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.

GEOL 390. Field Camp. 8 Units.
Prerequisites: GEOL 301, 325, 340, and 360 with a grade of "C" or better in each course and consent of instructor
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 to register. Materials fee required.

GEOL 391B. Advanced Geologic Mapping. 2 Units.
Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor
Offered: Fall, Winter and Spring
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 to register.
GEOL 391C. Advanced Geologic Mapping. 3 Units.
Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 391D. Advanced Geologic Mapping. 4 Units.
Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 391E. Advanced Geologic Mapping. 5 Units.
Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 391F. Advanced Geologic Mapping. 6 Units.
Prerequisites: GEOL 301 with a grade of "C" or better and consent of instructor
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.

GEOL 395A. Directed Studies. 1 Unit.
Prerequisites: consent of the instructor
Offered: Fall, Winter and Spring
Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit.

GEOL 395B. Directed Studies. 2 Units.
Prerequisites: consent of the instructor
Offered: Fall, Winter and Spring
Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit.
GEOL 530. Scanning Electron Microscopy. 5 Units.
Prerequisites: senior standing and consent of instructor
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.).

GEOL 531. Transmission Electron Microscopy. 5 Units.
Prerequisites: senior standing and consent of instructor
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.).

GEOL 532. Techniques in Ultrastructure Analysis. 5 Units.
Prerequisites: BIOL 530 or 531 or GEOL 530 or 531 and consent of instructor
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.).

GEOL 540. Advanced Topics in Geology. 4 Units.
Prerequisites: consent of instructor
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.

GEOL 545A. Laboratory for Advanced Topics in Geology. 1 Unit.
Prerequisites: consent of instructor
Laboratory work to accompany some topics offered in GEOL 540. Three hours laboratory per unit enrolled. Materials fee required. May be repeated for credit as topics change. Overnight field trips may be required.

GEOL 545B. Laboratory for Advanced Topics in Geology. 2 Units.
Prerequisites: consent of instructor
Laboratory work to accompany some topics offered in GEOL 540. Three hours laboratory per unit enrolled. Materials fee required. May be repeated for credit as topics change. Overnight field trips may be required.

GEOL 550. Earth Resources. 5 Units.
Prerequisites: GEOL 322 with a grade of "C" or better
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.

GEOL 551. Neotectonics and Seismic Hazard Analysis. 5 Units.
Prerequisites: GEOL 301 and GEOL 360 with a grade of "C" or better in each course
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.

GEOL 552. Volcanology and Volcanic Hazard Assessment. 5 Units.
Prerequisites: GEOL 325 with a grade of "C" or better
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.

GEOL 553. Advanced Structural Geology. 5 Units.
Prerequisites: GEOL 325, 330 and 360 with a grade of "C" or better. Recommended: GEOL 370
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.

GEOL 575B. Internship in Geology. 2 Units.
Prerequisites: consent of instructor and department chair
Offered: Fall, Winter and Spring
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 obtaining a bachelor's degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit.

GEOL 575C. Internship in Geology. 3 Units.
Prerequisites: Prerequisite: consent of instructor and department chair
Offered: Fall, Winter and Spring
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 obtaining a bachelor's degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit.
GEOL 575D. Internship in Geology. 4 Units.
Prerequisites: consent of instructor and department chair
Offered: Fall, Winter and Spring
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 obtaining a bachelors degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit.

GEOL 590. Senior Seminar. 2 Units.
Prerequisite/Corequisite: GEOL 399 with a grade of "C" or better
Offered: Spring
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.

GEOL 595A. Independent Study. 1 Unit.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 595B. Independent Study. 2 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 595C. Independent Study. 3 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 595D. Independent Study. 4 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 595E. Independent Study. 5 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 595F. Independent Study. 6 Units.
Prerequisites: consent of instructor
Offered: Fall, Winter and Spring
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.

GEOL 597B. Senior Honors Research. 2 Units.
Prerequisites: GEOL 399 with a grade of "C" or better
Offered: Fall, Winter and Spring
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.

GEOL 597C. Senior Honors Research. 3 Units.
Prerequisites: GEOL 399 with a grade of "C" or better
Offered: Fall, Winter and Spring
CoOriginal 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.

GEOL 597D. Senior Honors Research. 4 Units.
Prerequisites: GEOL 399 with a grade of "C" or better
Offered: Fall, Winter and Spring
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.

GEOL 610. Environmental Geosciences. 5 Units.
Application of earth science principles to environmental issues. Topics include applications of fundamentals of physical geology to geohazards, engineering geology, surface and groundwater, erosion, and environmental geochemistry. Atmospheric and climate topics will include global change issues. Labs will feature hands-on-experience with earth materials, maps, analytical techniques and environmental problem solving. Four hours lecture and three hours laboratory. Prerequisites: GEOG 103, or GEOL 101 or equivalent.

GEOL 620. Digital Mapping and GIS for Scientists. 4 Units.
Prerequisites: GEOG 202. Recommended: GEOL 301
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.

GEOL 621. Graduate Geological Mapping. 4 Units.
Prerequisites: GEOL 301, GEOL 325, GEOL 330, GEOL 340, and GEOL 360 or equivalents, classified standing, and consent of instructor
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.

GEOL 630. Environmental Geochemistry. 4 Units.
Prerequisites: GEOL 610
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.
GEOL 635. Low-temperature Geochemistry. 4 Units.
Prerequisites: GEOL 610
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.

GEOL 690. Graduate Seminar in Environmental Sciences. 2 Units.
Selected topics and reviews of current investigations in the fields of environmental geology.

GEOL 691B. Graduate Independent Study. 2 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in geology or environmental science.

GEOL 691C. Graduate Independent Study. 3 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in geology or environmental science.

GEOL 691D. Graduate Independent Study. 4 Units.
Prerequisites: classified standing in master’s program and consent of instructor
Independent study of an advanced topic in geology or environmental science.

GEOL 695D. Supervised Graduate Study in Geology. 4 Units.
Prerequisites: classified standing in masters program and consent of advisor
Original individual research in environmental geology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee.

GEOL 695E. Supervised Graduate Study in Geology. 5 Units.
Prerequisites: classified standing in masters program and consent of advisor
Original individual research in environmental geology; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee.

GEOL 696A. Graduate Project. 1 Unit.
Prerequisites: classified standing and consent of instructor
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.

GEOL 696B. Graduate Project. 2 Units.
Prerequisites: classified standing and consent of instructor
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.

GEOL 696C. Graduate Project. 3 Units.
Prerequisites: classified standing and consent of instructor
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.

GEOL 696D. Graduate Project. 4 Units.
Prerequisites: classified standing and consent of instructor
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.

GEOL 696E. Graduate Project. 5 Units.
Prerequisites: classified standing and consent of instructor
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.

GEOL 696F. Graduate Project. 6 Units.
Prerequisites: classified standing and consent of instructor
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.

GEOL 697. Advanced Internship. 4 Units.
Prerequisites: CHEM 575 or GEOL 575 and consent of advisor
Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee.

GEOL 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
GEOL 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 698G. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 699. Graduate Thesis. 4 Units.
Prerequisites: CHEM 695 or GEOL 695
Independent graduate research conducted under guidance of the major advisor culminating in a written thesis option of the degree requirements.

GEOL 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and good academic standing
Assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.
Bachelor of Arts in Geology

Requirements (92-95 units)

Total units required for graduation: 180

Requirements for the B.A. in Geology

Lower-division requirements (37-40)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
<td>5</td>
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<tr>
<td>or BIOL 200</td>
<td>Biology of the Cell</td>
<td></td>
</tr>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
<td>5-6</td>
</tr>
<tr>
<td>or CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
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A minimum of 13 units chosen from Group A or B below: 13-15

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Group A:</td>
<td>PHYS 121 Basic Concepts of Physics I</td>
<td>4</td>
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<tr>
<td></td>
<td>PHYS 122 Basic Concepts of Physics II</td>
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<td></td>
<td>PHYS 123 Basic Concepts of Physics III</td>
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<tr>
<td>Group B:</td>
<td>PHYS 221 General Physics I</td>
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<tr>
<td></td>
<td>PHYS 222 General Physics II</td>
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<td></td>
<td>PHYS 223 General Physics III</td>
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Upper-division requirements (55)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOL 301</td>
<td>Introduction to Geologic Mapping</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Geology of California</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 320</td>
<td>Mineralogy and Crystallography</td>
<td>5</td>
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<tr>
<td>GEOL 321</td>
<td>Optical Mineralogy</td>
<td>3</td>
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<tr>
<td>GEOL 322</td>
<td>Introduction to Geochemistry</td>
<td>4</td>
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<tr>
<td>GEOL 325</td>
<td>Igneous and Metamorphic Petrology</td>
<td>5</td>
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<tr>
<td>GEOL 330</td>
<td>Sedimentary Petrology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 340</td>
<td>Stratigraphy</td>
<td>5</td>
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<tr>
<td>GEOL 360</td>
<td>Structural Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 398</td>
<td>Geological Research Methods and Design</td>
<td>1</td>
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<td>GEOL 399</td>
<td>Undergraduate Geological Research</td>
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</tr>
<tr>
<td>GEOL 590</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
<td></td>
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<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
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<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
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<tr>
<td>GEOL 307A</td>
<td>Service Learning in the Earth Sciences</td>
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<tr>
<td>or GEOL 307B</td>
<td>Service Learning in the Earth Sciences</td>
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</tr>
<tr>
<td>GEOL 310</td>
<td>Regional Field Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 350</td>
<td>Paleontology</td>
<td></td>
</tr>
<tr>
<td>GEOL 370</td>
<td>Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEOL 391B-F</td>
<td>Advanced Geologic Mapping</td>
<td></td>
</tr>
<tr>
<td>GEOL 540</td>
<td>Advanced Topics in Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 545A</td>
<td>Laboratory for Advanced Topics in Geology</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 92-95

Bachelor of Arts in Geology - 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

1. 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.
2. 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 200</td>
<td>Biology of the Cell</td>
<td></td>
</tr>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
<td>5-6</td>
</tr>
</tbody>
</table>

Total Units 92-95
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Group A:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
<td></td>
</tr>
<tr>
<td>Group B:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td></td>
</tr>
<tr>
<td>GEOL 205</td>
<td>Volcanic Hazards, Surveillance and Prediction</td>
<td>2</td>
</tr>
<tr>
<td>or GEOL 210</td>
<td>Earthquakes: Science and Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

**Upper-division requirements (57)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 301</td>
<td>Introduction to Geologic Mapping</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Geology of California</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 320</td>
<td>Mineralogy and Crystallography</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 321</td>
<td>Optical Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Igneous and Metamorphic Petrology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 330</td>
<td>Sedimentary Petrology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 340</td>
<td>Stratigraphy</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 360</td>
<td>Structural Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 398</td>
<td>Geological Research Methods and Design</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 399</td>
<td>Undergraduate Geological Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 590</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 303</td>
<td>Astronomy for Educators</td>
<td>3</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 300</td>
<td>Science and Technology</td>
<td>4</td>
</tr>
<tr>
<td>NSCI 314</td>
<td>Life in the Cosmos</td>
<td></td>
</tr>
<tr>
<td>NSCI 315</td>
<td>Natural Disasters</td>
<td></td>
</tr>
<tr>
<td>NSCI 320</td>
<td>Energy</td>
<td></td>
</tr>
<tr>
<td>NSCI 360</td>
<td>Legacy of Life</td>
<td></td>
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</table>

**Education courses (48)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 405</td>
<td>Introduction to Secondary School Culture</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 407</td>
<td>Secondary School Teaching</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 410</td>
<td>Adolescent Development and Learning</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 413</td>
<td>Language Interaction in the Classroom</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 417</td>
<td>Educational Psychology: Instructional Theory,</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Assessment and Classroom Management</td>
<td></td>
</tr>
<tr>
<td>ESEC 419</td>
<td>Literacy Across the Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>ESEC 506L</td>
<td>Curriculum and Instruction in the Content Areas:</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Life and Physical Science</td>
<td></td>
</tr>
<tr>
<td>ESEC 550A</td>
<td>Student Teaching Experience</td>
<td>2</td>
</tr>
<tr>
<td>ESEC 512</td>
<td>Assessment Seminar: Designing Instruction</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ESEC 550B</td>
<td>and Student Teaching II</td>
<td></td>
</tr>
</tbody>
</table>

**Bachelor of Science in Geology**

**Requirements (113 units)**

**Total units required for graduation: 180-181**

**Requirements for the B.S. in Geology**

**Lower-division requirements (44)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
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<tr>
<td>or BIOL 200</td>
<td>Biology of the Cell</td>
<td></td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Reactions</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

A minimum of 9 units chosen from Group A or B below:

(9 students are strongly encouraged to complete the sequence)

**Group A:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Basic Concepts of Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 123</td>
<td>Basic Concepts of Physics III</td>
<td></td>
</tr>
</tbody>
</table>

**Group B:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td></td>
</tr>
</tbody>
</table>

**Upper-division requirements (50)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 301</td>
<td>Introduction to Geologic Mapping</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 320</td>
<td>Mineralogy and Crystallography</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 321</td>
<td>Optical Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 322</td>
<td>Introduction to Geochemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Igneous and Metamorphic Petrology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 330</td>
<td>Sedimentary Petrology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 340</td>
<td>Stratigraphy</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 360</td>
<td>Structural Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 390</td>
<td>Field Camp</td>
<td>8</td>
</tr>
<tr>
<td>or GEOL 391B-F</td>
<td>Advanced Geological Mapping</td>
<td></td>
</tr>
<tr>
<td>GEOL 398</td>
<td>Geological Research Methods and Design</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 399</td>
<td>Undergraduate Geological Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 590</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

**Option (19)**

Complete one of the following options

**Total Units**

113
General Geology Option (18 units)
A minimum of 18 units chosen from the following list after consultation with a faculty advisor. No more than four units may be taken from supervision courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
</tr>
<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOL 307A-B</td>
<td>Service Learning in the Earth Sciences</td>
</tr>
<tr>
<td>GEOL 310</td>
<td>Regional Field Geology</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Geology of California</td>
</tr>
<tr>
<td>GEOL 350</td>
<td>Paleontology</td>
</tr>
<tr>
<td>GEOL 370</td>
<td>Tectonics</td>
</tr>
<tr>
<td>GEOL 375</td>
<td>Groundwater Hydrology</td>
</tr>
<tr>
<td>GEOL 391B-E</td>
<td>Advanced Geologic Mapping</td>
</tr>
<tr>
<td>GEOL 395A-D</td>
<td>Directed Studies</td>
</tr>
<tr>
<td>GEOL 540</td>
<td>Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 545A-B</td>
<td>Laboratory for Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 550</td>
<td>Earth Resources</td>
</tr>
<tr>
<td>GEOL 551</td>
<td>Neotectonics and Seismic Hazard Analysis</td>
</tr>
<tr>
<td>GEOL 552</td>
<td>Volcanology and Volcanic Hazard Assessment</td>
</tr>
<tr>
<td>GEOL 553</td>
<td>Advanced Structural Geology</td>
</tr>
<tr>
<td>GEOL 575B-D</td>
<td>Internship in Geology</td>
</tr>
<tr>
<td>GEOL 595A-E</td>
<td>Independent Study</td>
</tr>
<tr>
<td>GEOL 597B-D</td>
<td>Senior Honors Research</td>
</tr>
<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
</tr>
</tbody>
</table>

Total Units 18

Environmental Geology Option (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 375</td>
<td>Groundwater Hydrology</td>
</tr>
<tr>
<td>GEOL 376</td>
<td>Field Methods in Hydrology</td>
</tr>
<tr>
<td>GEOL 430</td>
<td>Engineering Geology</td>
</tr>
</tbody>
</table>

A minimum of five units chosen, after consultation with a faculty advisor, from (no more than two units from supervision courses):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 206</td>
<td>Fundamentals of Chemistry II: Organic Chemistry</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Hydrology and Water Resources</td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Geology of California</td>
</tr>
<tr>
<td>GEOL 540</td>
<td>Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 545A-B</td>
<td>Laboratory for Advanced Topics in Geology</td>
</tr>
<tr>
<td>GEOL 550</td>
<td>Earth Resources</td>
</tr>
<tr>
<td>GEOL 551</td>
<td>Neotectonics and Seismic Hazard Analysis</td>
</tr>
<tr>
<td>GEOL 552</td>
<td>Volcanology and Volcanic Hazard Assessment</td>
</tr>
<tr>
<td>GEOL 553</td>
<td>Advanced Structural Geology</td>
</tr>
<tr>
<td>GEOL 575B-D</td>
<td>Internship in Geology</td>
</tr>
<tr>
<td>GEOL 595A-E</td>
<td>Independent Study</td>
</tr>
<tr>
<td>GEOL 597B-D</td>
<td>Senior Honors Research</td>
</tr>
<tr>
<td>HSCI 557</td>
<td>Hazardous Material Control</td>
</tr>
<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
</tr>
</tbody>
</table>

Total Units 18

Minor in Geology
Requirements (35-36 units)

Requirements for a minor in Geology

Lower-division requirements (20-21)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Historical Geology</td>
</tr>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
</tr>
<tr>
<td>or CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
</tr>
<tr>
<td>or PHYS 221</td>
<td>General Physics I</td>
</tr>
</tbody>
</table>

Upper-division requirements (15)
A minimum of 15 units of upper-division geology courses. These units may not include GEOL 309.

Total Units 35-36
Department of Health Science and Human Ecology

- Accredited by the National Environmental Health Science and Protection Accreditation Council; California Department of Public Health-Environmental Health Specialist Registration Committee
- (Environmental Health Science Option)
- SABPAC Approved (Public Health Education)

Department of Health Science and Human Ecology

Physical Sciences Building, Room 226
(909) 537-5339 Department of Health Science and Human Ecology (http://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

Teaching Credential Preparation Program
Health Science

Minor
- Health Science
- Nutrition and Food Sciences

Master of Public Health

Master of Science
- Health Services Administration

Certificate Programs
- Gerontology
- Health Care Management

Audiometrist Certification
Offered through the College of Extended Learning, HSCI 374 leads to a certificate of registration as a school audiometrist issued by the California State Department of Health Services.

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. In addition, the department offers a Master of Science in Health Services Administration, and a Master of Public Health. 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 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.

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).

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 Department of Health Science and Human Ecology (http://health.csusb.edu)

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.

Current Faculty
Monideepa Becerra, Assistant Professor
B.S. 2008, University of California, Riverside
M.P.H. 2011, Loma Linda University

Dorothy C. Chen-Maynard, Associate Professor
B.S. 1978, University of Southern California
M.S. 1981, California State University, Los Angeles
Ph.D. 1994, University of California, Davis.

Kim R. Clark, Professor
B.A. 1971, California State University, Humboldt
M.P.H. 1979, Loma Linda University
Dr.P.H. 1991, University of California, Berkeley

Ted Coleman, Professor
B.A. 1979, M.H.Ed. 1980, Brigham Young University
Ph.D. 1983, Purdue University

Marsha Greer, Associate Professor, Chair
B.A. 1973, University of Northern Colorado
M.S. 1977, Washington State University
M.S. 1990, University of Oregon
Ph.D. 1995, Oregon State University

Joe S. Hughes, Assistant Professor
B.A. 1978, George Washington University
M.S. 1985, Ph.D. 1989, Washington State University

Sue Kim, Assistant Professor
Ph.D., 2013, University of California Berkeley

Robert LaChausse, Lecturer
B.A. 1995, M.A. 1998, California State University, San Bernardino

Christopher H. Lindfelt, Associate Professor, Assistant Dean
B.A. 1989, Lawrence University

Lal S. Mian, Professor
B.Sc. 1967, M.Sc. 1972, University of Peshawar, Pakistan
M.S. 1974, American University, Beirut, Lebanon
Ph.D. 1982, University of California, Riverside

Robert N. Phalen, Associate Professor
B.A. 1995, California State University, Fullerton
Ph.D. 2006, University of California, Los Angeles

Sue Kim, Assistant Professor
Ph.D., 2013, University of California Berkeley

Robert LaChausse, Lecturer
B.A. 1995, M.A. 1998, California State University, San Bernardino

Christopher H. Lindfelt, Associate Professor, Assistant Dean
B.A. 1989, Lawrence University

Lal S. Mian, Professor
B.Sc. 1967, M.Sc. 1972, University of Peshawar, Pakistan
M.S. 1974, American University, Beirut, Lebanon
Ph.D. 1982, University of California, Riverside

Robert N. Phalen, Associate Professor
B.A. 1995, California State University, Fullerton
Ph.D. 2006, University of California, Los Angeles

Angie Verissimo, Assistant Professor
B.A. 2005, University of Redlands
M.P.H. 2007, Ph.D. 2011, University of California, Los Angeles

Emeriti
Richard Eberst, Professor
Daniel F. Fahey, Professor
Joseph E. Lovett, Professor
Cynthia Paxton, Professor
Thomas C. Timmreck, Professor

Undergraduate Degrees
Bachelor of Science
• Health Science (p. 631) with concentrations in:
  • Environmental Health Science
  • Health Care Management
  • Public Health Education
• Health Science - Integrated Teaching Track (p. 633)
• Nutrition and Food Sciences (p. 634)

Graduate Degrees
• Master of Public Health (p. 634)
• Master of Science in Health Services Administration (p. 635)

Minors
• Health Science (p. 636)
• Nutrition and Food Sciences (p. 637)

Certificate Programs
• Gerontology (p. 637)
• Health Care Management (p. 637)

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 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:
Courses

HSCI 100. Concepts in Health. 2 Units.
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.

HSCI 120. Health and Society: An Ecological Approach. 5 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination (GE=B2)
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 students understanding of his or her role as an individual and as a member of the community. Four hours lecture and three hours laboratory.

HSCI 216. Reproductive Health. 2 Units.
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.

HSCI 218. Stress Management. 2 Units.
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.

HSCI 225. Introduction to the Dietetic Profession. 1 Unit.
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.

HSCI 244. Introduction to Culinary Arts. 2 Units.
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.

HSCI 245. Introduction to Food Science. 5 Units.
Prerequisites: CHEM 205
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.

HSCI 271. Introduction to Public Health. 4 Units.
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.

HSCI 273. Software Applications in the Health Sciences. 4 Units.
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.

HSCI 295A. Special Projects in Health Science. 1 Unit.
Prerequisites: consent of department
Individual investigation, research, study or survey of selected problems.

HSCI 295B. Special Projects in Health Science. 2 Units.
Prerequisites: consent of department
Individual investigation, research, study or survey of selected problems.

HSCI 301. Foundations of Public Health Education. 4 Units.
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.

HSCI 303. AIDS and Society. 4 Units.
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.

HSCI 310. Health and Human Sexuality. 4 Units.
Relationship between health and human sexuality with a theme of prevention of disease, disorder and dysfunction through education.
HSCI 311. Organization and Management of Long-Term Care Facilities. 4 Units.
Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor
Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Formerly HSCI 511.

HSCI 315. Statistics for the Health Sciences. 4 Units.
Prerequisites: MATH 110
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.

HSCI 322. Air Pollution. 2 Units.
Prerequisites: college-level courses in biology and chemistry
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.

HSCI 324. Radiological Health and Safety. 2 Units.
Prerequisites: college-level courses in biology, chemistry and physics
Ionizing radiation and its effects on health. Methods of identification, evaluation and control are emphasized.

HSCI 332. Health Education in the Elementary School. 4 Units.
Prerequisites: HSCI 120 or consent of instructor
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.

HSCI 342. Nutrition for Your Health. 4 Units.
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.

HSCI 344. International Perspectives on Nutrition. 4 Units.
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.

HSCI 345. Advanced Food Science. 5 Units.
Prerequisites: CHEM 206 or equivalent and HSCI 245
Study of food processing technology including thermal processing, dehydration, heat removal, and osmotic preservation. Food product development and sensory evaluation of food. Fours hours lecture and three hours laboratory.

HSCI 350. Principles of Nutritition. 4 Units.
Prerequisites: CHEM 207, or a one-term GOB (General, Organic, Biochemistry) course, BIOL 223 and BIOL 224, or consent of instructor
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.

HSCI 352. Principles of Environmental Health. 4 Units.
Prerequisites: college-level course in biology
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.

HSCI 354. Solid Waste Management. 2 Units.
Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor
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.

HSCI 356. Housing and Institutions. 2 Units.
Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic and ethnic factors and their influence on health.

HSCI 358. Water Quality and Pollution. 4 Units.
Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor
Major sources and control of water pollution. Includes discussion of water legislation, wastewater treatment, quality control criteria for safe drinking water and their impact on aquatic life.

HSCI 359. Global Health. 4 Units.
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.

HSCI 360. Medical Care Organizations. 4 Units.
Prerequisites: HSCI 271 or consent of instructor
Analysis of the organization of health and medical care services, resources, facilities, financial aspects, and other related topics. Formerly HSCI 415.

HSCI 361. Principles of Accident Prevention. 2 Units.
Ecological and medical aspects of accident prevention in residential, work, educational, medical and recreational environments. Legal aspects and governmental organizations involved in accident prevention.
HSCI 364. Drug and Alcohol Use and Abuse. 4 Units.
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.

HSCI 365. Nutrition Throughout the Life Cycle. 4 Units.
Prerequisites: HSCI 350
Nutritional needs through the life cycle. Factors that affect cultural, ethnic and religious food preferences in individuals and groups.

HSCI 367. Human Disease Mechanisms. 4 Units.
Prerequisites: either BIOL 223 and BIOL 224 or BIOL 200, BIOL 201, and BIOL 202
Ecological and medical aspects of human disease and the body’s response to the disease process and the effects on normal function.

HSCI 370. Health Behavior. 4 Units.
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.

HSCI 378. Peer Education Training in Health Science. 4 Units.
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.

HSCI 379. Peer Education Supervision in Health Science. 2 Units.
Prerequisites: HSCI 378
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.

HSCI 380. Toxicology. 4 Units.
Prerequisites: college-level biology and chemistry courses
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.

HSCI 381. Occupational Safety. 4 Units.
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.

HSCI 382. Nutrition for Health, Fitness and Sports. 4 Units.
Addresses nutrition needs of active people and athletes. Topics include, but not limited to macro and micro nutrient requirements for fitness and sport, popular nutrition supplements and ergogenic aids. (Also offered as HSCI 382. Students may not receive credit for both.) Four hours lecture. Recommended: BIOL 224.

HSCI 384. Nutrition Assessment and Research Methodology. 2 Units.
Prerequisites: HSCI 350 or consent of instructor
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.

HSCI 385. Food and Culture: Traditions and Trends. 4 Units.
Prerequisites: HSCI 244 or consent of instructor
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.

HSCI 399A. Community Service Project. 1 Unit.
Prerequisites: consent of department
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.

HSCI 399B. Community Service Project. 2 Units.
Prerequisites: consent of department
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.

HSCI 401. Advanced Environmental Health. 5 Units.
Prerequisites: HSCI 352, college-level course work in biology, chemistry and physics is recommended or consent of instructor
An integrated view of the factors that contribute to illness, injury, or death, and that affect the health status of individuals and populations. Topics include epidemiology, demographics and statistics on health status, determinants of health and illness, behavioral aspects of health and preventive care. Environmental health laws and regulations as well as compliance with current regulations are emphasized. The laboratory emphasizes methods of measuring and evaluating environmental health risks as well as field experience. Topics include: environments within buildings, food sanitation, water sanitation and control, solid and hazardous waste and control, air pollution and control, community noise and control. Four hours lecture and three hours laboratory. Formerly HSCI 353.
HSCI 402. Principles of Occupational Health. 5 Units.
Prerequisites: HSCI 352 or consent of instructor. College-level course work in chemistry and physics is recommended.
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.

HSCI 403. Vector-borne Disease Control. 5 Units.
Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor
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.

HSCI 404. Women's Health Issues. 4 Units.
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.

HSCI 405. Health Issues of Men. 4 Units.
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.

HSCI 421. Community Mental Health. 4 Units.
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.

HSCI 422. Health Planning. 4 Units.
Prerequisites: HSCI 271 or consent of instructor
Principles of planning and evaluation in healthcare settings. Focus on health information systems, health care delivery, and program evaluation.

HSCI 423. Health and Wellness of Older Adults. 4 Units.
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.

HSCI 424. Health Facilities Planning. 4 Units.
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.

HSCI 425. Hearing Conservation and Noise Measurement. 2 Units.
Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs.
HSCI 440. Family Health Issues for Educators. 4 Units.
Factors which influence the overall health status of today's adolescents, their families and communities, including fitness, nutrition, substance abuse, suicide, stress and sexuality issues. The role of the secondary classroom teacher within the school health services and referral system is emphasized. Course conforms with the State Framework for Education in the Health Sciences for middle school and high school teacher candidates. May not be taken for elective credit in school health or community health concentrations.

HSCI 441. Nutritional Biochemistry and Metabolism. 4 Units.
Prerequisites: HSCI 365 and 384, or consent of instructor
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.

HSCI 442. Advanced Human Nutrition. 2 Units.
Prerequisites: HSCI 441 or consent of instructor
Nutritional biochemistry and relevant topics in nutrition and dietetics. Emphasis on integration, interpretation, and application of nutrition research. Formerly HSCI 383 and HSCI 447.

HSCI 443. Medical Nutrition Therapy I. 4 Units.
Prerequisites: HSCI 441, or consent of instructor
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.

HSCI 444. Medical Nutrition Therapy II. 4 Units.
Prerequisites: HSCI 442 and 443, or consent of instructor
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.

HSCI 445. Community Nutrition. 4 Units.
Prerequisites: HSCI 273, 442, and 443, or consent of instructor
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 development, planning, and evaluation of community programs and educational methods.

HSCI 446. Senior Seminar in Dietetic Education. 1 Unit.
Prerequisites: HSCI 225 and senior standing in the Nutrition and Food Science program
Current and future trends in dietetic education, dietetic internship programs, and application processes.

HSCI 447. Health Program Planning and Implementation. 4 Units.
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.
HSCI 472. Program Evaluation. 4 Units.
Prerequisites: prior or concurrent enrollment in HSCI 468 and 471 or consent of instructor
Theory of and practice in a variety of program evaluation strategies in the school, community agency, and/or health care settings.

HSCI 473. Strategies and Methods in Health Education. 4 Units.
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.

HSCI 474. Advanced Audiometry. 4 Units.
Prerequisites: HSCI 374 or 425 or equivalent
Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry.

HSCI 477. Environmental Health Engineering. 4 Units.
Prerequisites: HSCI 120 and 352
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.

HSCI 478. Environmental Health Management. 4 Units.
Prerequisites: HSCI 120
Methods of management for promoting optimum environmental health, emphasizing land use planning, environmental impact reporting, facility planning and risk assessment.

HSCI 480. Health Services Administration. 4 Units.
Introduction to management theory and practice as they apply to the management of health services programs. Emphasis is placed on the planning, analysis, 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.

HSCI 489. Pre-Field Experience. 2 Units.
Prerequisites: senior standing; all 100- and 200-level courses completed; grade of "C" or better in all upper division courses in the major
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.

HSCI 492A. Field Study I: Action/Research in Human Ecology and Health. 5 Units.
Prerequisites: HSCI 489 or consent of instructor
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.

HSCI 492B. Field Study II: Action/Research in Human Ecology and Health. 5 Units.
Prerequisites: HSCI 489 or consent of instructor
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.

HSCI 492C. Field Study III: Action/Research in Human Ecology and Health. 5 Units.
Prerequisites: HSCI 489 or consent of instructor
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.

HSCI 493. Field Experience Seminar. 1 Unit.
Prerequisites: HSCI 489
Analyzes the field experience, examines trends in the profession, and prepares students for formal presentation of their internship project to department faculty, agency preceptors and other students. Must be taken concurrently with HSCI 495 until completion of field experience. May be repeated for credit.

HSCI 494A. Internship in Health Science. 1 Unit.
Prerequisites: consent of instructor
Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses.

HSCI 494B. Internship in Health Science. 2 Units.
Prerequisites: consent of instructor
Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses.

HSCI 494C. Internship in Health Science. 3 Units.
Prerequisites: consent of instructor
Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses.

HSCI 494D. Internship in Health Science. 4 Units.
Prerequisites: consent of instructor
Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses.

HSCI 494E. Internship in Health Science. 5 Units.
Prerequisites: consent of instructor
Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses.

HSCI 495. Field Experience. 4 Units.
Prerequisites: HSCI 489; concurrent enrollment in HSCI 493; and signed consent of program advisor
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.
HSCI 496. Internship in Environmental Health. 4 Units.
Prerequisites: HSCI 352, health science majors with concentration in environmental health science and senior class standing or consent of instructor
Individual studies in environmental health. Students will be placed with public agencies to gain applied and/or research experience. Graded credit/no credit.

HSCI 499A. Directed Reading. 1 Unit.
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
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.

HSCI 499B. Directed Reading. 2 Units.
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
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.

HSCI 499C. Directed Reading. 3 Units.
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
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.

HSCI 499D. Directed Reading. 4 Units.
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
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.

HSCI 505. School Nurse Credential Program Orientation. 2 Units.
Prerequisites: admission to the School Nurse Credential Program
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.

HSCI 510. Hospital Administration. 4 Units.
Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor
Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly HSCI 427.

HSCI 512. Clinical Operations of Ambulatory Care/Group Practices. 4 Units.
Prerequisites: HSCI 120 or consent of instructor
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.

HSCI 513. Managed Care Systems. 4 Units.
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.

HSCI 525. Health Data Analysis and Demography. 4 Units.
Prerequisites: HSCI 451 and MATH 305 or consent of instructor
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.

HSCI 530. Food-Borne Illnesses and Their Prevention. 4 Units.
Prerequisites: HSCI 352 or consent of instructor
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.

HSCI 531. Bioterrorism. 4 Units.
Prerequisites: college level biology and chemistry or consent of instructor
History, identification, properties and mode of transmission of agents of bioterrorism, including preventive, control and treatment measures against bioterrorism.

HSCI 540. School Health Programs and Practices. 4 Units.
Prerequisites: must be a 2042 or Ryan credential candidate, or consent of instructor
Advanced examination of the teachers role within a coordinated school health program. State and national guidelines are also reviewed.

HSCI 550. Health Aspects of Death and Dying. 4 Units.
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. Formerly a topic under HSCI 452.
HSCI 557. Hazardous Material Control. 4 Units.
Prerequisites: college-level biology and chemistry courses
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.

HSCI 558. Management of Water Quality. 4 Units.
Prerequisites: prior or concurrent enrollment in HSCI 358 or consent of instructor
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.

HSCI 561. Maternal and Child Nutrition. 2 Units.
Significance and role of nutrition during pregnancy, lactation, and childhood including conditions that result from undernutrition.

HSCI 562. Issues in International Nutrition. 2 Units.
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.

HSCI 590. Current Topics in Health Administration and Planning. 2 Units.
Presentation and analysis of a particular issue or topic in health services administration or planning. May be repeated for credit as topics change.

HSCI 595A. Independent Study. 1 Unit.
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
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.

HSCI 595B. Independent Study. 2 Units.
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
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.

HSCI 595C. Independent Study. 3 Units.
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
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.

HSCI 595D. Independent Study. 4 Units.
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
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.

HSCI 600. Seminar in Health and Human Ecology. 4 Units.
Philosophical foundations of health and human ecology. Historical, contemporary and professional perspectives.

HSCI 601. Administration of Health Care Programs. 4 Units.
Economic forces which impact on health and health delivery systems and an assessment of the distribution of financial resources required to sustain these systems. Emphasis on trends in financing health care and the economic influence of reimbursement policies on financial decision-makers. Formerly HSCI 630.

HSCI 602. Management, Organization and Planning. 4 Units.
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.

HSCI 603. Health Economics and Financial Systems. 4 Units.
Micro- and macroeconomic aspects of health services, various payment approaches, third-party reimbursement systems, budgeting and financial analysis, decision-making and planning in health services and organizations. Formerly HSCI 655.

HSCI 604. Theory and Practice of Interventions. 4 Units.
Prerequisites: HSCI 470 or consent of instructor
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.
HSCI 605. Health Care Accounting and Financial Analysis. 4 Units.
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.

HSCI 606. Advanced Program Evaluation. 4 Units.
Prerequisites: HSCI 471; and HSCI 690 or EDUC 663; or consent of instructor
Advanced topics in health and human services program evaluation models, data collection, quantitative, and qualitative methods, data analysis and data interpretation.

HSCI 607. Cross Cultural Aspects of Health. 4 Units.
Prerequisites: consent of instructor
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.

HSCI 608. Health Research Methods. 4 Units.
Prerequisites: consent of applicable MPH or MSHSA program coordinator
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.

HSCI 610. Social and Behavioral Influences on Public Health. 4 Units.
Social and behavioral determinants of health status, and identification and solution of public health problems including preventive care. Formerly HSCI 501.

HSCI 611. Public Health System Organization and Delivery. 4 Units.
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.

HSCI 612. Public Health Statistics. 4 Units.
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.

HSCI 613. Principles of Health Behavior. 4 Units.
Prerequisites: HSCI 607, and classified status or consent of instructor
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.

HSCI 614. Health Education Practice. 4 Units.
Prerequisites: consent of instructor
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.

HSCI 615. Health Education Program Planning and Evaluation. 4 Units.
Prerequisites: classified status, prior or concurrent enrollment in HSCI 607, 613 and 614 or consent of instructor
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.

HSCI 616. Environmental and Occupational Health. 4 Units.
Sources, routes, media, and health outcomes associated with chemical, physical, and biological agents in the environment; affects 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.

HSCI 617. Epidemiology. 4 Units.
Prerequisites: HSCI 610, HSCI 611, and HSCI 612
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.

HSCI 620. Advanced Topics in Epidemiological Methodology. 4 Units.
Prerequisites: HSCI 451 and 690
Concepts and methodologies of contemporary epidemiology and their relationship to managing and planning health and environmental systems.

HSCI 621. Individual and Small Group Interventions in Health Promotion. 4 Units.
Prerequisites: HSCI 604 or consent of instructor
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.

HSCI 622. Health Education Curriculum and Instruction. 4 Units.
Prerequisites: completion of HSCI 432 and 433
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.
HSCI 623. Health Teaching Practicum. 4 Units.
Prerequisites: HSCI 622
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.

HSCI 632. Health Policy and Decision-Making. 2 Units.
Prerequisites: HSCI 271 and 600
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.

HSCI 635. Communication and Human Relations in Health Services. 4 Units.
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.

HSCI 640. Administration of Health Education Programs. 4 Units.
Prerequisites: classified status, prior or concurrent enrollment in HSCI 615 or consent of instructor
Current developments in health education related to management and planning of health promotion programs, including strategies to facilitate communication, decision-making and problem solving.

HSCI 645. Information and Technology Systems Management in Health Services. 4 Units.
Prerequisites: consent of instructor
Information systems, networks, and computer software systems, used in health services setting.

HSCI 650. Administration of Environmental Management Programs. 4 Units.
Prerequisites: HSCI 352 and 600
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.

HSCI 651. Air Quality Management. 4 Units.
Prerequisites: classified graduate status and HSCI 617 or consent of instructor
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.

HSCI 652. Industrial Hygiene. 4 Units.
Prerequisites: classified graduate status and HSCI 617 or consent of instructor
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.

HSCI 653. Health Law and Medical Ethics. 4 Units.
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.

HSCI 654. Applied Vector Control. 4 Units.
Prerequisites: classified graduate status and HSCI 617 or consent of instructor
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.

HSCI 659. Research Methods in Environmental Health Science. 4 Units.
Prerequisites: HSCI 612 or consent of instructor
Research methods and application to contemporary environmental health problems. Data analysis and development of skills for determining appropriate analytical techniques and procedures.

HSCI 660A. Advanced Topics in Health Science and Human Ecology. 2 Units.
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.

HSCI 660C. Advanced Topics in Health Science and Human Ecology. 3 Units.
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.

HSCI 660D. Advanced Topics in Health Science and Human Ecology. 4 Units.
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.

HSCI 661. General Nutrition. 4 Units.
Prerequisites: classified graduate standing and prior or concurrent enrollment in HSCI 617 or consent of instructor
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.

HSCI 663. Principles of Public Health Nutrition. 4 Units.
Prerequisites: classified graduate standing in one of the departments graduate programs, HSCI 661, or consent of instructor
Major nutrition-related diseases and their prevention, including effects of public policy on health status.
HSCI 664. Nutrition in Health and Disease. 4 Units.
Prerequisites: classified graduate standing in one of the departments graduate programs, prior or concurrent enrollment in HSCI 617 and 661, or consent of instructor
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.

HSCI 665. Strategic Planning and Evaluation. 4 Units.
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.

HSCI 667. Nutritional Assessment. 4 Units.
Prerequisites: classified standing in the departments graduate program, prior or concurrent enrollment in HSCI 506 and 661 or consent of instructor
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.

HSCI 670A. Directed Readings. 1 Unit.
Prerequisites: graduate standing and consent of graduate coordinator
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.

HSCI 670B. Directed Readings. 2 Units.
Prerequisites: graduate standing and consent of graduate coordinator
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.

HSCI 670C. Directed Readings. 3 Units.
Prerequisites: graduate standing and consent of graduate coordinator
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.

HSCI 670D. Directed Readings. 4 Units.
Prerequisites: graduate standing and consent of graduate coordinator
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.

HSCI 675. Health Services Administration Leadership, Team and Quality Development. 4 Units.
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.

HSCI 685. Health Services Administration Capstone Seminar. 4 Units.
Prerequisites: HSCI 601, 602, 603, 604, 605, 606, 610, 611, 690, and concurrent enrollment in HSCI 645 and 675
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.

HSCI 689B. Field Experience. 2 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 689C. Field Experience. 3 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 689D. Field Experience. 4 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 689E. Field Experience. 5 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 689F. Field Experience. 6 Units.
Prerequisites: consent of advisor
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, nonprofit 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.
HSCI 689G. Field Experience. 7 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 689H. Field Experience. 8 Units.
Prerequisites: consent of advisor
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, nonprofit 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.

HSCI 690. Graduate Research Methodology in Health Science. 5 Units.
Prerequisites: HSCI 315 or consent of instructor
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.

HSCI 695. Capstone Seminar. 4 Units.
Prerequisites: advancement to candidacy, completion of a minimum of 16 units in the students advisement area, and concurrent enrollment in HSCI 696, 699, or 999
Synthesis and integration of knowledge acquired in coursework. Special emphasis on the multidisciplinary analysis of complex public health issues.

HSCI 696. Project. 4 Units.
Prerequisites: completion of HSCI 608, HSCI 612, and at least 24 units of approved coursework; an officially appointed project committee; and advancement to candidacy
Preparation of a project for the master's degree. Includes formal defense or professional presentation. Graded credit/no credit.

HSCI 697. Administrative Residency. 4 Units.
Prerequisites: advancement to candidacy and consent of department
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.

HSCI 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
HSCI 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 699. Thesis. 4 Units.
Prerequisites: completion of HSCI 608, HSCI 612 and at least 24 units of approved coursework; an officially appointed thesis committee; and advancement to candidacy
Preparation of a thesis for the master’s degree. Includes formal oral defense. Graded credit/no credit.

HSCI 699B. Thesis II. 4 Units.
Prerequisites: successful completion of HSCI 699A Research, Writing and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology.

HSCI 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, completion of a minimum of 16 units, approval of department, and good academic standing
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.

Bachelor of Science in Health Science
Requirements (104-116 units)
Total units required for graduation: 180-187

Environmental Health Science
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.

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.

Health Care Management
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.

**Public Health Education**

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

**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 (p. 47).

**Lower-division requirement (5)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HSCI 120</td>
<td>Health and Society: An Ecological Approach</td>
<td>5</td>
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</table>

**Upper-division requirements (20)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HSCI 315</td>
<td>Statistics for the Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 352</td>
<td>Principles of Environmental Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 367</td>
<td>Human Disease Mechanisms</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 370</td>
<td>Health Behavior</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 451</td>
<td>Principles of Epidemiology</td>
<td>4</td>
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</tbody>
</table>

**Concentration (79-91)**

One of the following concentrations is required for the major: 79-91

**Environmental Health Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 320</td>
<td>Microorganisms</td>
<td></td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
</tbody>
</table>

Organic chemistry, a minimum of five units. Choose Group A, B, or C in its entirety:

- **Group A:**
  - CHEM 220A Organic Chemistry I Lecture 6
  - CHEM 220B Organic Chemistry I Lab 4
  - CHEM 220C Organic Chemistry II Lecture 6
  - CHEM 220D Organic Chemistry II Lab 4
  - CHEM 220E Organic Chemistry III Lecture 6
  - CHEM 220F Organic Chemistry III Lab 4

- **Group B:**
  - CHEM 321 Principles of Organic Chemistry I 4
  - CHEM 322 Principles of Organic Chemistry II 4
  - CHEM 323 Principles of Organic Chemistry III 4

**Concentration (79-91)**

One of the following concentrations is required for the major: 79-91

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 380</td>
<td>Toxicology</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 401</td>
<td>Advanced Environmental Health</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 402</td>
<td>Principles of Occupational Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 403</td>
<td>Vector-borne Disease Control</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 478</td>
<td>Environmental Health Management</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 480</td>
<td>Health Services Administration</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 496</td>
<td>Internship in Environmental Health</td>
<td>4</td>
</tr>
</tbody>
</table>

**MATH 192** Methods of Calculus 4

**or MATH 211** Basic Concepts of Calculus 4

A minimum of thirteen units, choose Group A or B below: 13

- **Group A:**
  - PHYS 121 Basic Concepts of Physics I 4
  - PHYS 122 Basic Concepts of Physics II 4
  - PHYS 123 Basic Concepts of Physics III 4

- **Group B:**
  - PHYS 221 General Physics I 4
  - PHYS 222 General Physics II 4
  - PHYS 223 General Physics III 4

Six units of health science electives chosen from: 6

- HSCI 322 Air Pollution
- HSCI 324 Radiological Health and Safety
- HSCI 354 Solid Waste Management
- HSCI 356 Housing and Institutions
- HSCI 358 Water Quality and Pollution
- HSCI 381 Occupational Safety
- HSCI 477 Environmental Health Engineering
- HSCI 499A-D Directed Reading
- HSCI 530 Food-Borne Illnesses and Their Prevention
- HSCI 531 Bioterrorism
- HSCI 557 Hazardous Material Control
- HSCI 558 Management of Water Quality
- HSCI 595A-D Independent Study

**Total Units** 91

**Health Care Management Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 271</td>
<td>Introduction to Public Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 273</td>
<td>Software Applications in the Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 360</td>
<td>Medical Care Organizations</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 423</td>
<td>Health and Wellness of Older Adults</td>
<td>4</td>
</tr>
</tbody>
</table>
Teaching Track in Health Science will earn a B.S. in Health Science and

Students who successfully meet the requirements for the Integrated Science - Integrated Teaching Track

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 ESC 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-.

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.

**Public Health Education Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 220</td>
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</tr>
<tr>
<td>BIOL 223</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 224</td>
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<tr>
<td>CHEM 205</td>
<td>5</td>
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<tr>
<td>HSCI 271</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 273</td>
<td>4</td>
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<tr>
<td>HSCI 301</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 310</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 312</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 342</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 359</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 364</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 455</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 468</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 471</td>
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<td>HSCI 480</td>
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<tr>
<td>HSCI 489</td>
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<tr>
<td>HSCI 493</td>
<td>1</td>
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<tr>
<td>HSCI 495</td>
<td>4</td>
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</tbody>
</table>

Twelve units of upper-division health science electives or other electives approved by an advisor.

Total Units: 79

**Lower-division requirement (33)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HSCI 120</td>
<td>5</td>
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<tr>
<td>HSCI 271</td>
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<tr>
<td>HSCI 273</td>
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<td>BIOL 220</td>
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<td>BIOL 223</td>
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<tr>
<td>BIOL 224</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 205</td>
<td>5</td>
</tr>
</tbody>
</table>

**Upper-division requirements (64)**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<tr>
<td>HSCI 310</td>
<td>4</td>
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<tr>
<td>HSCI 312</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 342</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 352</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 364</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 367</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 370</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 451</td>
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<td>HSCI 455</td>
<td>4</td>
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<td>HSCI 468</td>
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<tr>
<td>HSCI 471</td>
<td>4</td>
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<tr>
<td>HSCI 473</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 540</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units of health science electives or other electives approved by an advisor.

**Education courses (48)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 271</td>
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</tr>
<tr>
<td>HSCI 273</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 220</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 223</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 205</td>
<td>5</td>
</tr>
</tbody>
</table>

Bachelor of Science in Health Science - Integrated Teaching Track

Requirements (145 units)

Total units required for graduation: 218-222

HSCI 436 Human Resources Management in Health Care 4
HSCI 438 Financial Management in Health Care 4
HSCI 452 Special Topics in Health Science and Human Ecology 4
HSCI 455 Health Policy and Law 4
HSCI 460 Strategic Planning and Marketing in the Health Care System 4
HSCI 468 Research Methodology in Health Science 4
HSCI 480 Health Services Administration 4
HSCI 489 Pre-Field Experience 2
HSCI 493 Field Experience Seminar 1
HSCI 495 Field Experience 4
MGMT 302 Management and Organizational Behavior 4

Twelve units of upper-division health science electives or other electives approved by an advisor.

Total Units: 79

California State University, San Bernardino 633
Bachelor of Science 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)

BIOL 220 Principles of Microbiology 5
BIOL 223 Human Physiology and Anatomy I 5
BIOL 224 Human Physiology and Anatomy II 5
CHEM 205 Fundamentals of Chemistry I: General Chemistry 5
CHEM 206 Fundamentals of Chemistry II: Organic Chemistry 5
CHEM 207 Fundamentals of Chemistry III: Biochemistry 5
HSCI 120 Health and Society: An Ecological Approach 5
HSCI 225 Introduction to the Dietetic Profession 1
HSCI 244 Introduction to Culinary Arts (or proof of competency to be determined by faculty advisor) 0-2
HSCI 245 Introduction to Food Science 5
HSCI 273 Software Applications in the Health Sciences 4
MATH 110 College Algebra 4
PSYC 100 Introduction to Psychology 4
or SOC 100 The Study of Society

Upper-division requirements (63)

HSCI 315 Statistics for the Health Sciences 4
HSCI 345 Advanced Food Science 5
HSCI 350 Principles of Nutrition 4
HSCI 365 Nutrition Throughout the Life Cycle 4
HSCI 384 Nutrition Assessment and Research Methodology 2
HSCI 441 Nutritional Biochemistry and Metabolism 4
HSCI 442 Advanced Human Nutrition 2
HSCI 443 Medical Nutrition Therapy I 4
HSCI 444 Medical Nutrition Therapy II 4
HSCI 445 Community Nutrition 4
HSCI 446 Senior Seminar in Dietetic Education 1
HSCI 465 Foodservice Production and Procurement 5
HSCI 467 Foodservice Systems Management 4
MGMT 302 Management and Organizational Behavior 4
or PSYC 302 Management and Organizational Behavior 4
NSCI 306 Expository Writing for the Natural Sciences 4

Eight units chosen from:

ESEC 405 Introduction to Secondary School Culture 4
ESEC 407 Secondary School Teaching 4
ESEC 410 Adolescent Development and Learning 4
ESEC 413 Language Instruction in the Classroom 4
ESEC 417 Educational Psychology: Instructional Theory, Assessment and Classroom Management 4
ESEC 419 Literacy Across the Curriculum 4
ESEC 506L Curriculum and Instruction in the Content Areas: Life and Physical Science 4
ESEC 550A Student Teaching Experience 2
ESEC 512 Assessment Seminar: Designing Instruction and Student Teaching I 6
ESEC 513 Assessment Seminar: Assessment Learning and Assessment Seminar: Culminating Teaching Experience and Student Teaching III 12
ESEC 550B

Total Units 145

Total Units 116-118

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.

Master of Public Health

Requirements (56 units)

The Master of Public Health program is appropriate for health professionals furthering their careers as educators, supervisors, leaders, and administrators in public health settings including county, state, and federal health agencies, community-based organizations, healthcare organizations, and public institutions dedicated to the improvement of population health. The purpose of the MPH program is to prepare professionals to develop knowledge and skill to identify, assess, evaluate, and resolve public health problems with competence in program planning, implementation, and evaluation.

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 on the department web pages.

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, including those focused on cultural and ethnic diversity;
3. Submission of Graduate Record Examination (GRE) score;
4. Three letters of recommendation, including one from the school where 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;
5. 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 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 complete at least 16 quarter units of MPH core coursework with a minimum grade point average of 3.0 (“B”) and must remove any deficiencies stated as conditions for acceptance into the program or otherwise set by the department’s graduate committee.

**Advancement to Candidacy**

To be advanced to candidacy, the student must:

1. Achieve classified status;
2. Candidacy will be granted upon completion of HSCI 610 and HSCI 611 plus completion of 8 additional quarter units of appropriate 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 MPH graduate coordinator;
4. Be recommended for advancement to candidacy by the MPH graduate coordinator.

**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. Completion of a professional field experience and final report or, in exceptional cases as approved by the MPH graduate coordinator, passing the comprehensive examination;
5. The graduation writing requirement is met by successfully completing the field experience final report or comprehensive examination.

**Degree Requirements (56 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 610</td>
<td>Social and Behavioral Influences on Public Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 611</td>
<td>Public Health System Organization and Delivery</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 612</td>
<td>Public Health Statistics</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 616</td>
<td>Environmental and Occupational Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 617</td>
<td>Epidemiology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Required Courses (36)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSCI 602</td>
<td>Management, Organization and Planning</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 607</td>
<td>Cross Cultural Aspects of Health</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives may include:**

- HSCI 689D
- COMM 560
- HSCI 614
- HSCI 665
- HSCI 675
- HSCI 685
- HSCI 689D
- Other as approved by the MPH graduate coordinator.

**Total Units** 56

**Master 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: Department of Health Science website (http://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 (p. 846). 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.

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 HSCI 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 602</td>
<td>Management, Organization and Planning</td>
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</tr>
<tr>
<td>HSCI 607</td>
<td>Cross Cultural Aspects of Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 608</td>
<td>Health Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 610</td>
<td>Social and Behavioral Influences on Public Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 611</td>
<td>Public Health System Organization and Delivery</td>
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<td>HSCI 612</td>
<td>Public Health Statistics</td>
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<td>HSCI 616</td>
<td>Environmental and Occupational Health</td>
<td>4</td>
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<td>HSCI 617</td>
<td>Epidemiology</td>
<td>4</td>
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<tr>
<td>HSCI 665</td>
<td>Strategic Planning and Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 675</td>
<td>Health Services Administration Leadership, Team and Quality Development</td>
<td>4</td>
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<tr>
<td>HSCI 685</td>
<td>Health Services Administration Capstone Seminar</td>
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**MSHSA Concentration Courses (16)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HSCI 605</td>
<td>Health Economics and Financial Systems</td>
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</tr>
<tr>
<td>HSCI 645</td>
<td>Information and Technology Systems Management in Health Services</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 653</td>
<td>Health Law and Medical Ethics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Culminating Experience/Application of Learning (4)**

One of the following options: 4

- Comprehensive Examination Option
  - HSCI 999 | Comprehensive Examination | 4 |
  - Four units of HSCI courses approved by advisor.
- Internship/Project Option
  - HSCI 697 | Administrative Residency |
- Thesis Option
  - HSCI 699 | Thesis |

**Total Units** | 64 |

**Minor in Health Science**

**Requirements (31 units)**

**Requirements for a minor in Health Science**

**Lower-division requirement (5)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HSCI 120</td>
<td>Health and Society: An Ecological Approach</td>
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</table>

**Upper-division requirements (26)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HSCI 352</td>
<td>Principles of Environmental Health</td>
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</tr>
<tr>
<td>HSCI 451</td>
<td>Principles of Epidemiology</td>
<td>4</td>
</tr>
</tbody>
</table>
Eighteen units of upper-division health science courses chosen in consultation with an advisor. 18

**Total Units** 31

## Minor in Nutrition and Food Sciences

**Requirements (40 units)**

### Requirements for a minor in Nutrition and Food Science

#### Lower-division requirements (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
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</tr>
<tr>
<td>CHEM 206</td>
<td>Fundamentals of Chemistry II: Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>Fundamentals of Chemistry III: Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 245</td>
<td>Introduction to Food Science</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Upper-division requirements (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 350</td>
<td>Principles of Nutrition</td>
<td>4</td>
</tr>
</tbody>
</table>

Sixteen units of upper-division nutrition and food courses to be chosen in consultation with an advisor. 16

**Total Units** 40

## Certificate in Gerontology

**Requirements (28 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 120</td>
<td>Health and Society: An Ecological Approach</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 360</td>
<td>Medical Care Organizations</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 460</td>
<td>Strategic Planning and Marketing in the Health Care System</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 480</td>
<td>Health Services Administration</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 271</td>
<td>Introduction to Public Health</td>
<td>8</td>
</tr>
<tr>
<td>HSCI 311</td>
<td>Organization and Management of Long-Term Care Facilities</td>
<td></td>
</tr>
<tr>
<td>HSCI 512</td>
<td>Clinical Operations of Ambulatory Care/Group Practices</td>
<td></td>
</tr>
<tr>
<td>HSCI 513</td>
<td>Managed Care Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 302</td>
<td>Management and Organizational Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units** 33

## Certificate in Health Care Management

**Requirements (33 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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 (p. 816).
Department of Kinesiology

Department of Kinesiology

Health and Physical Education Building, Room 120
(909) 537-5349 Department of Kinesiology website (http://kine.csusb.edu)

Bachelor of Science
• Kinesiology
• Exercise Science
• Pedagogy
• Allied Health Professions

Teaching Credential Programs
• Adapted Physical Education Added Authorization
• Single Subject
• (Offered through the College of Education.)

Minor
• Kinesiology
• Recreation

Certificate Programs
• Coaching
• Fitness Management
• Recreation Leadership

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.

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, contact the Credentials Office, CE-102.

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.

Current Faculty
Michelle Alencar, Assistant Professor
Ph. D., 2013, University of New Mexico - Main Campus

Pablo Costa, Assistant Professor
B.S. 2004, Estacio De Sa’, Costa Rica
M.S. 2007, Florida Atlantics University
Ph.D. 2011, University of Oklahoma

Nicole Dabbs, Assistant Professor
Ph.D., 2013, University of Mississippi - Main Campus

Guillermo Escalante, Assistant Professor
B.S. 1997, M.B.A. 1999, University of LaVerne, CA
D.S.C 2012, Rocky Mountain University of Health Professions

Chris Gentry, Asisatn Professor
B.S. 2005, M.S. 2011, Southern Illinois University

Bryan Haddock, Professor
B.A. 1986, The Master’s College
M.S. 1988, Ph.D. 1998, Loma Linda University

Aaron C. Moffett, Associate Professor
B.A. 1999, George Washington University
M.A. 2001, University of Texas, Austin
Ph.D. 2005, Michigan State University

Hyun-Kyoung Oh, Associate Professor
B.S. 1998, Dongduk Women’s University, Seoul, Korea
M.S. 2000, Seoul National University, Seoul, Korea
Ph.D. 2006, Indiana University, Bloomington

Terry L. Rizzo, Professor, Chair
B.A. 1973, Northeastern Illinois University
M.Ed. 1974, University of Arizona
Ph.D. 1983, University of Illinois, Urbana-Champaign

Amanda Rymal, Assistant Professor
B.A. 2005, Laurentian University, Ontario
M.A. 2007, Ph.D. 2011, University of Ottawa

Shannon R. Siegel, Associate Professor
B.A. 1989, University of California, Santa Cruz
M.A. 1995, University of Texas, Austin
Ph.D. 1999, Michigan State University

Hosung So, Professor
B.S. 1993, M.S. 1995, Chug-Ang University, Seoul Korea
Ph.D. 2002, University of Nevada, Las Vegas

Emeriti
Sarah Boeh, Associate Professor
Jerry Freischlag, Professor
Christopher C. Grenfell, Professor
Carolyn Martin, Professor
Undergraduate Degrees

Bachelor of Science

- Kinesiology with concentrations in:
  - Exercise Science (p. 647)
  - Pedagogy (p. 647)
  - Allied Health Professions (p. 648)

Minors

- Kinesiology (p. 649)
- Recreation (p. 650)

Certificate Programs

- Coaching (p. 650)
- Fitness Management (p. 650)
- Recreation Leadership (p. 651)

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 chosen from any one of the following categories:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 101A-S</td>
<td>Individual and Dual Activities</td>
<td>2</td>
</tr>
<tr>
<td>KINE 114A-F</td>
<td>Physical Fitness and Conditioning Activities</td>
<td>2</td>
</tr>
<tr>
<td>KINE 120A-L</td>
<td>Somatic and Martial Arts Activities</td>
<td>2</td>
</tr>
<tr>
<td>KINE 121A-K</td>
<td>Team Activities</td>
<td>2</td>
</tr>
<tr>
<td>KINE 137A-L</td>
<td>Aquatic Activities</td>
<td>2</td>
</tr>
<tr>
<td>KINE 147</td>
<td>A Fitness Odyssey</td>
<td>2</td>
</tr>
<tr>
<td>KINE 149</td>
<td>Independent Activity Project</td>
<td>2</td>
</tr>
<tr>
<td>KINE 150A-K</td>
<td>Dance Activities</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

Courses

KINE 101A. Individual and Dual Activities: Archery. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101.

KINE 101B. Individual and Dual Activities: Badminton. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101.

KINE 101C. Individual and Dual Activities: Bicycling. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101. (Field trips required).

KINE 101D. Individual and Dual Activities: Bowling. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101. (Field trips required).

KINE 101F. Individual and Dual Activities: Golf. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101. (Field trips required).

KINE 101G. Individual and Dual Activities: Gymnastics. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101.

KINE 101N. Individual and Dual Activities: Racquetball. 2 Units.

(GE=E3)

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101.
KINE 101P. Individual and Dual Activities: Skiing-Alpine. 2 Units.
(GE=E3)
Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101. (Field trips required).

KINE 101Q. Individual and Dual Activities: Skiing-Nordic. 2 Units.
(GE=E3)
Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101. (Field trips required).

KINE 101S. Individual and Dual Activities: Tennis. 2 Units.
(GE=E3)
Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Graded ABC/no credit. Formerly PE 101.

KINE 114A. Physical Fitness and Conditioning Activities: Body Conditioning. 2 Units.
(GE=E3)
Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114.

KINE 114B. Physical Fitness and Conditioning Activities: Circuit Training. 2 Units.
(GE=E3)
Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114.

KINE 114C. Physical Fitness and Conditioning Activities: Jogging. 2 Units.
(GE=E3)
Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114.

KINE 114E. Physical Fitness and Conditioning Activities: Weight Training. 2 Units.
(GE=E3)
Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114.

KINE 114F. Physical Fitness and Conditioning Activities: Yoga. 2 Units.
(GE=E3)
Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114.

KINE 120A. Somatic and Martial Arts Activities: Aikido. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120B. Somatic and Martial Arts Activities: Tai Chi. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120C. Somatic and Martial Arts Activities: Capoeira. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120D. Somatic and Martial Arts Activities: Judo. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120E. Somatic and Martial Arts Activities: Karate. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120F. Somatic and Martial Arts Activities: Self-Defense. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120G. Somatic and Martial Arts Activities: Cardio-Arts. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120H. Somatic and Martial Arts Activities: Fencing. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120I. Somatic and Martial Arts Activities: Wrestling. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120J. Somatic and Martial Arts Activities: Pilates. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.
KINE 120K. Somatic and Martial Arts Activities: Tae Kwon Do. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 120L. Somatic and Martial Arts Activities: Sampler. 2 Units.
(GE=E3)
Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117.

KINE 121A. Team Activities: Basketball. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 121C. Team Activities: Flag Football. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 121F. Team Activities: Soccer. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 121G. Team Activities: Softball. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 121J. Team Activities: Team Handball. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 121K. Team Activities: Volleyball. 2 Units.
(GE=E3)
Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121.

KINE 137A. Aquatic Activities: Lifeguard Training. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (Red Cross certification available.) Formerly PE 137A.

KINE 137C. Aquatic Activities: Basic and Emergency Water Safety. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (Red Cross certification available.) Formerly PE 137C.

KINE 137D. Aquatic Activities: Boating and Canoeing. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (Field trips required. Red Cross certification available.) Formerly PE 137D.

KINE 137F. Aquatic Activities: Scuba Diving. 2 Units.
Prerequisites: skin diving or consent of instructor
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (Field trips required. NAUI certification available. Doctors physical examination required.) Formerly PE 137F.

KINE 137G. Aquatic Activities: Skin Diving. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (Red Cross certification available.) Formerly PE 137G.

KINE 137H. Aquatic Activities: Springboard Diving. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. Formerly PE 137H.

KINE 137J. Aquatic Activities: Swimming. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. Formerly PE 137J.

KINE 137K. Aquatic Activities: Water Polo. 2 Units.
(GE=E3)
Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. Formerly PE 137K.

KINE 137L. Advanced Swimming for Fitness. 2 Units.
(GE=E3)
Introduction to and practice of basic skills and techniques utilized in selected somatic and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117. Intended for those who have already taken an introductory swim class or who have prior swimming ability. Advanced swimming drill and lap swim workouts.

KINE 146A. Outdoor Skills Activities: Backpacking. 2 Units.
Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.

KINE 146B. Outdoor Skills Activities: Camping. 2 Units.
Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.
KINE 146C. Outdoor Skills Activities: Mountaineering. 2 Units.
Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.

KINE 146D. Outdoor Skills Activities: Orienteering. 2 Units.
Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.

KINE 146E. Outdoor Skills Activities: Survival Skills. 2 Units.
Introduction to and practice of basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.

KINE 147. A Fitness Odyssey. 2 Units.
( GE=E3 )
A self-paced exercise program and/or plan of study for the mature adult. Programs designed to fit individual life style needs on a contract basis following examination of past and present activity patterns. Graded ABC/no credit. Formerly PE 147.

KINE 148. Leisure Sports. 2 Units.
Mild to moderately active leisure activities suited to the capabilities and interests of the mature adult. Graded ABC/no credit. Formerly PE 148.

KINE 149. Independent Activity Project. 2 Units.
Prerequisites: consent of department chair (GE=E3)
Activity project designed to satisfy individual needs of students who cannot meet requirements of a regular activity class due to a medical, physical or other conflict; under the supervision of a faculty member. Graded ABC/no credit. Formerly PE 149.

KINE 150A. Dance Activities: Aerobic. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150B. Dance Activities: Low-Impact Aerobic. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150C. Dance Activities: Step Aerobic. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150D. Dance Activities: Ballet. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150E. Dance Activities: Ethnic. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150F. Dance Activities: Jazz. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150G. Dance Activities: Modern. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150H. Dance Activities: Tap. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150I. Dance Activities: Country and Western. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150J. Dance Activities: Sampler. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150K. Dance Activities: Social. 2 Units.
( GE=E3 )
Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141.

KINE 150L. Women’s Intercollegiate Activities. 2 Units.
Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Volleyball, cross country, basketball, tennis, softball, water polo, soccer. Graded ABC/no credit. Formerly PE 160. May be repeated.

KINE 150M. Men’s Intercollegiate Activities. 2 Units.
Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Soccer, basketball, golf, baseball. Graded ABC/no credit. Formerly PE 190. May be repeated.

KINE 200. First Aid. 2 Units.
Introduction to the emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR). May lead to certification in Standard First Aid from the American Red Cross and/or CPR from the American Heart Association. Formerly PE 200.
KINE 203. Introduction to Recreation. 4 Units.
Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. Formerly PE 203.

KINE 205. Foundations for Lifetime Fitness and Wellness. 2 Units.
(GE=E1)
Introduction and discussion of the interrelationship of physical fitness and wellness. Benefits associated with physical activity, and how exercise on a regular basis contributes to the development of healthier lifestyles. Topics include: components of physical fitness (including assessment techniques), weight control, nutrition, stress management, health benefits of active lifestyles, and exercise guidelines for each area of fitness. Formerly PE 205.

KINE 210. Introduction to Kinesiology. 2 Units.
Provides an overview of the discipline of kinesiology. Formerly KINE 210A. Two hours lecture.

KINE 237. Water Safety Instruction. 2 Units.
Prerequisites: KINE 137A or 137C or equivalent
Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. Meets standards for Red Cross certification. One hour lecture and three hours laboratory. Formerly PE 237 and 362.

KINE 240. Exercise Science Software. 2 Units.
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.

KINE 254. Field Experience. 2 Units.
Supervised off-campus observational field experience in a teaching, fitness or recreation setting. One hour lecture and three hours of observation. Formerly PE 254.

KINE 261A. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Archery. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261C. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261E. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261H. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming. 2 Units.
Prerequisites: one of the following: Prerequisites: KINE 137A, KINE 137C, KINE 137J, KINE 137K or KINE 137L
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261K. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261L. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261M. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261N. Professional Activity Prep in Individual and Dual Sports/Movement Forms: Strength and Conditioning. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.

KINE 261O. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261.
KINE 263A. Professional Activity Preparation of Team Sports: Basketball. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 263.

KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag). 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 263.

KINE 263C. Professional Activity Preparation of Team Sports: Soccer. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 263.

KINE 263D. Professional Activity Preparation of Team Sports: Softball. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 263.

KINE 263E. Professional Activity Preparation of Team Sports: Volleyball. 2 Units.
The development of the fundamental techniques and skills for teaching these activities. Formerly PE 263.

KINE 267. Sports Officiating. 2 Units.
An introduction to contest rules and mechanics of officiating for selected sports. Personal and philosophical bases for successful officiating are examined. Formerly PE 267.

KINE 270. Introduction to Fitness and Testing. 2 Units.
Understanding the scientific basis for assessing physical conditional, fitness, and strength development. Acquisition of the skills and techniques necessary for designing and evaluating fitness programs for specific applications. Four hours activity. Formerly KINE 261D.

KINE 271. Recreation Leadership. 4 Units.
Organization, supervision and administration of recreation programs and practical experience in recreation situations which provide the opportunity to develop leadership skills. Formerly PE 271.

KINE 277. Recreation Programming. 4 Units.
Prerequisites: KINE 203 or 271
Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, arts and sports. Formerly PE 277.

KINE 301. Service Learning in Kinesiology. 2 Units.
Prerequisites: KINE 210
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.

KINE 305. Prevention and Treatment of Sports Injuries. 4 Units.
Prerequisites: BIOL 223 and BIOL 224
Theories and methods in the prevention, assessment, treatment and rehabilitation of sports injuries. Four hours lecture, laboratory experiences included. Formerly PE 280 and KINE 280. Materials fee required.

KINE 310. History and Philosophy of Physical Activity. 4 Units.
The evolution of sport and physical activity including historical and philosophical influences from ancient societies through the present. Formerly PE 310. Four hours lecture.

KINE 311. Introduction to Adapted Physical Education. 4 Units.
Provides an overview of adapted physical education. May not be taken for credit by students who have received credit for KINE 210B. Three hours lecture and two hours field experiences with individuals with disabilities.

KINE 323. Sociology of Physical Activity. 4 Units.
Sociocultural aspects of sport and physical activity, including socialization process, social issues, reflection of social values and interaction with other social institutions. Formerly PE 321 and 323. Four hours lecture.

KINE 324. Psychology of Physical Activity. 4 Units.
A behavioral science perspective is used to examine sport and physical activity, including motivation, personality, anxiety, aggression, group cohesion. Includes theoretical foundations and practical application. Four hours lecture. Formerly PE 322 and 324.

KINE 325. Motor Development Across the Lifespan. 4 Units.
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.

KINE 330. Movement Skill Assessment for Individuals with Disabilities. 4 Units.
Prerequisites: KINE 311
Analysis of motor skills for the purpose of conducting meaningful assessment for individuals with disabilities. Formerly PE 330.

KINE 331A. Topics in Adapted Physical Education: Adapted Acquatics. 2 Units.
Prerequisites: KINE 311
Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331. (American Red Cross certification.).

KINE 331B. Topics in Adapted Physical Education: Physical Disabilities. 2 Units.
Prerequisites: KINE 311
Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331.

KINE 331C. Topics in Adapted Physical Education: Disabilities in Learning. 2 Units.
Prerequisites: KINE 311
Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331.
KINE 331D. Topics in Adapted Physical Education: Disabilities in Communication. 2 Units.
Prerequisites: KINE 311
Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331.

KINE 331E. Topics in Adapted Physical Education: Severe and Profound Disabilities. 2 Units.
Prerequisites: KINE 311
Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331.

KINE 332. The Nature and Issues Concerning Individuals with Disabilities. 4 Units.
Key initial adapted physical education core competencies about the nature and issues associated with disabling conditions across the lifespan. Course required for the California Adapted Physical Education Specialist Credential.

KINE 333. Applied Behavior Management. 4 Units.
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.

KINE 334. Seminar in Adapted Physical Activity. 4 Units.
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 Specialist Credential.

KINE 335. Methods and Techniques of Coaching. 4 Units.
Strategies, practice organization and planning for coaching of athletic teams. The purpose of school athletics, public relations responsibilities and personal qualities for success are examined. Formerly PE 343.

KINE 352. Movement for Children. 4 Units.
The study and analysis of movement for children. Includes the structure of movement, the integration of movement activities and the human development aspects of movement. Formerly PE 352.

KINE 360. Physical Activity and Aging. 2 Units.
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.

KINE 365. Outdoor Education and Camp Leadership. 4 Units.
Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Includes a supervised leadership experience and field trips to observe camp facilities, programs and resources. Formerly PE 365.

KINE 370. Measurement and Statistics in Kinesiology. 4 Units.
Prerequisites: completion of the general education requirement in mathematics
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.

KINE 380. Advanced Assessment and Rehabilitation of Athletic Injuries. 4 Units.
Prerequisites: KINE 305
Study of specific techniques of injury evaluation and assessment. Development and application of rehabilitation programs. Four hours lecture plus eight hours of arranged fieldwork per week. Formerly PE 380.

KINE 382. Nutrition for Health, Fitness and Sports. 4 Units.
Addresses nutrition needs of active people and athletes. Topics include, but not limited to macro and micro nutrient requirements for fitness and sport, popular nutrition supplements and ergogenic aids. (Also offered as HSCI 382. Students may not receive credit for both.) Four hours lecture. Recommended: BIOL 224.

KINE 385. Diversity Issues in Sport and Physical Activity. 4 Units.
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.

KINE 410. Motor Control and Skill Learning. 4 Units.
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 and PE 320.

KINE 454. Field Experience II. 3 Units.
Prerequisites: KINE 254 or consent of instructor
Supervised leadership experience in a teaching or fitness setting. Formerly PE 454.

KINE 471. Exercise Science Program Management. 4 Units.
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.
KINE 472. Program Design in Physical Education. 4 Units.
Prerequisites: KINE 210
Basic skills necessary to design, implement and evaluate effective physical education programs in public schools. Formerly KINE 470. Four hours lecture.

KINE 473. Instructional Strategies in Physical Education. 4 Units.
Prepares future physical educators with skills to translate goals and objectives in the teaching-learning process into effective teaching behaviors. Four hours lecture. Formerly KINE 355 and PE 355.

KINE 479. Qualitative Biomechanics. 5 Units.
Prerequisites: BIOL 223, BIOL 224 and MATH 110
Analysis of movement and application of physical laws to human performance from a qualitative perspective. Four hours lecture and three hours laboratory.

KINE 480. Biomechanics. 5 Units.
Prerequisites: BIOL 223 and BIOL 224 and MATH 110 or higher (excluding MATH 115). Recommended: MATH 120 and PHYS 100
Application of physical laws to human performance; analytical and quantitative processes emphasized. Four hours lecture and three hours laboratory. Formerly PE 480.

KINE 481. Exercise Physiology. 5 Units.
Prerequisites: BIOL 223 and BIOL 224
Effects of physical activity on the physiological systems of the human body. Four hours lecture and three hours laboratory. Formerly PE 481.

KINE 482. Contemporary Fitness Programs. 4 Units.
Analysis of contemporary methods and technologies used in fitness programs. Critiques made in light of research findings and practical applications. Formerly PE 420 and 482.

KINE 483. Exercise Prescription. 4 Units.
Prerequisites: KINE 481, KINE 485, and KINE 486
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. Formerly PE 430 and PE 483.

KINE 485. EKG Interpretation. 2 Units.
Prerequisites: KINE 481
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 laboratory. Formerly KINE 355 and PE 355.

KINE 486. Instrumentation in Exercise Science. 2 Units.
Prerequisites: KINE 481
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.

KINE 488. Legal Issues in Exercise Science. 2 Units.
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.

KINE 490. Senior Seminar in Kinesiology. 2 Units.
Prerequisites: senior standing or consent of instructor
Selected topics significant to the discipline of kinesiology. Formerly PE 490. Two hours seminar.

KINE 493. Internship. 2 Units.
Prerequisites: consent of instructor
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.

KINE 499. Methods and Materials in the Teaching of Physical Education. 4 Units.
Prerequisites: ESEC 332, senior or graduate standing and admission to the Single Subject Credential Program or consent of the College of Natural Sciences
Individualized instruction in the methods and materials for the teaching of physical education. Formerly PE 499.

KINE 580. Exercise, Energy and Human Performance. 4 Units.
Prerequisites: KINE 481
Energy demands and dietary adjustments required in physical performance with emphasis on high intensity activities. Consideration of climactic factors, ergogenic aids and synthetic substance ingestion. Formerly PE 412 and 580.

KINE 595A. Independent Study. 1 Unit.
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
Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Formerly PE 595.

KINE 595B. Independent Study. 2 Units.
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
Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Formerly PE 595.
KINE 595C. Independent Study. 3 Units.
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
Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Formerly PE 595.

KINE 595D. Independent Study. 4 Units.
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
Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Formerly PE 595.

KINE 600. Graduate Seminar. 2 Units.
Examination of selected disciplinary and professional issues in physical education through critical analysis of literature and research findings. Formerly PE 600.

KINE 623. Sport and Social Issues. 4 Units.
Social aspects of sport including social values, race, gender, ethnicity and social deviance. Formerly PE 623 and 630.

KINE 624. Sport Psychology. 4 Units.
The study of underlying psychological factors in sports. To include educational implications, strategies with young athletes, and dynamics of the sport group. Formerly PE 624.

KINE 630. Physical Education for Special Populations. 4 Units.
Physical activity assessment, and program development for individuals with disabilities. Formerly PE 630.

KINE 670. Leadership in Physical Education. 4 Units.
Theory and analysis of leadership behavior in physical education. Emphasis on developing leadership knowledge, qualities, and skills applicable to diverse physical activity settings.

KINE 681. Exercise and Sport Science. 4 Units.
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 childrens fitness and assessment. Formerly PE 681.

KINE 685. Analysis of Human Movement. 4 Units.
Theory and application of techniques used to analyze and describe human movement.

KINE 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 223</td>
<td>Human Physiology and Anatomy I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>Human Physiology and Anatomy II</td>
<td>5</td>
</tr>
<tr>
<td>KINE 210</td>
<td>Introduction to Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>KINE 240</td>
<td>Exercise Science Software</td>
<td>2</td>
</tr>
<tr>
<td>KINE 270</td>
<td>Introduction to Fitness and Testing</td>
<td>2</td>
</tr>
</tbody>
</table>

Upper-division requirements (58)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 305</td>
<td>Prevention and Treatment of Sports Injuries</td>
<td>4</td>
</tr>
<tr>
<td>KINE 310</td>
<td>History and Philosophy of Physical Activity</td>
<td>4</td>
</tr>
</tbody>
</table>

Affective/Social Domain:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 323</td>
<td>Sociology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>or KINE 324</td>
<td>Psychology of Physical Activity</td>
<td></td>
</tr>
<tr>
<td>KINE 325</td>
<td>Motor Development Across the Lifespan</td>
<td>4</td>
</tr>
<tr>
<td>KINE 360</td>
<td>Physical Activity and Aging</td>
<td>2</td>
</tr>
<tr>
<td>KINE 370</td>
<td>Measurement and Statistics in Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>KINE 382</td>
<td>Nutrition for Health, Fitness and Sports</td>
<td>4</td>
</tr>
<tr>
<td>KINE 410</td>
<td>Motor Control and Skill Learning</td>
<td>4</td>
</tr>
<tr>
<td>KINE 471</td>
<td>Exercise Science Program Management</td>
<td>4</td>
</tr>
<tr>
<td>KINE 480</td>
<td>Biomechanics</td>
<td>5</td>
</tr>
<tr>
<td>KINE 481</td>
<td>Exercise Physiology</td>
<td>5</td>
</tr>
<tr>
<td>KINE 483</td>
<td>Exercise Prescription</td>
<td>4</td>
</tr>
<tr>
<td>KINE 485</td>
<td>EKG Interpretation</td>
<td>2</td>
</tr>
<tr>
<td>KINE 486</td>
<td>Instrumentation in Exercise Science</td>
<td>2</td>
</tr>
<tr>
<td>KINE 488</td>
<td>Legal Issues in Exercise Science</td>
<td>2</td>
</tr>
<tr>
<td>KINE 490</td>
<td>Senior Seminar in Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>KINE 493</td>
<td>Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 79

Bachelor of Science 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 223</td>
<td>Human Physiology and Anatomy I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>Human Physiology and Anatomy II</td>
<td>5</td>
</tr>
<tr>
<td>KINE 210</td>
<td>Introduction to Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>KINE 254</td>
<td>Field Experience</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261C</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261F</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261H</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261B</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261G</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261J</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261E</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261K</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261L</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261M</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261N</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Strength and Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>KINE 261O</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga</td>
<td>2</td>
</tr>
<tr>
<td>KINE 270</td>
<td>Introduction to Fitness and Testing</td>
<td>2</td>
</tr>
</tbody>
</table>

Team Sports. Eight units chosen from:

- KINE 263A: Professional Activity Preparation of Team Sports: Basketball
- KINE 263B: Professional Activity Preparation of Team Sports: Football (Flag)
- KINE 263C: Professional Activity Preparation of Team Sports: Soccer
- KINE 263D: Professional Activity Preparation of Team Sports: Softball
- KINE 263E: Professional Activity Preparation of Team Sports: Volleyball
- KINE 270: Introduction to Fitness and Testing

Upper-division requirements (52)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 305</td>
<td>Prevention and Treatment of Sports Injuries</td>
<td>4</td>
</tr>
<tr>
<td>KINE 310</td>
<td>History and Philosophy of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 311</td>
<td>Introduction to Adapted Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 323</td>
<td>Sociology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 324</td>
<td>Psychology of Physical Activity</td>
<td>4</td>
</tr>
</tbody>
</table>

KINE 325: Motor Development Across the Lifespan 4
KINE 370: Measurement and Statistics in Kinesiology 4
KINE 410: Motor Control and Skill Learning 4
KINE 472: Program Design in Physical Education 4
KINE 473: Instructional Strategies in Physical Education 4
KINE 480: Biomechanics 5
KINE 481: Exercise Physiology 5
KINE 490: Senior Seminar in Kinesiology 2

Total Units: 91

Bachelor of Science in Kinesiology - Allied Health Professions

Requirements (92 units)

Total units required for graduation (180)

The concentration in Allied Health Professions (AHP) is for people interested in eventual graduate education in allied health professions (viz., physical therapy, occupational therapy, physician's assistant, medical or dental school) after graduation from CSUSB. CSUSB Kinesiology AHP students will engage in a rigorous course of study in Kinesiology, Biology, Chemistry, and Physics. This concentration offers undergraduate students essential pre-requisite courses for eventual graduate study in a preferred AHP. Students are strongly encouraged to review admission requirements at accredited universities to which they may apply for specific allied health professions graduate programs. (Formerly PRE-PHYSICAL THERAPY)

Minimum Admission Requirements for First Year Students

Listed below are requirements for high school applicants interested in the AHP program.

<table>
<thead>
<tr>
<th>GPA</th>
<th>ACT Score</th>
<th>SAT Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.45</td>
<td>18</td>
<td>800</td>
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<tr>
<td>3.10</td>
<td>22</td>
<td>1100</td>
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<tr>
<td>2.95</td>
<td>27</td>
<td>1220</td>
</tr>
<tr>
<td>2.75</td>
<td>29</td>
<td>1290</td>
</tr>
</tbody>
</table>

Minimum Admission Requirements for Transfer Students:

1. 3.20 GPA required;
2. Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 223</td>
<td>Human Physiology and Anatomy I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>Human Physiology and Anatomy II</td>
<td>5</td>
</tr>
<tr>
<td>A minimum of one (1) science series chosen from Group A, B or C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Group A:

- CHEM 215: General Chemistry I: Atomic Structure and Chemical Bonding 6
- CHEM 216: General Chemistry II: Principles of Chemical Reactions 6

Group B:

- PHYS 121: Basic Concepts of Physics I 5
- PHYS 122: Basic Concepts of Physics II 4

Group C:

- CHEM 215: General Chemistry I: Atomic Structure and Chemical Bonding 6
- CHEM 216: General Chemistry II: Principles of Chemical Reactions 6

For groups A, B, or C, the remaining 39 units may be chosen from Group A, B, or C.
Minor in Kinesiology

Requirements (43 units)

Lower-division requirements (26)
- BIOL 223 Human Physiology and Anatomy I (5)
- BIOL 224 Human Physiology and Anatomy II (5)
- KINE 210 Introduction to Kinesiology (2)
- KINE 254 Field Experience (2)
- Eight units chosen from: (8)
  - KINE 261A Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Archery
  - KINE 261B Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton
  - KINE 261C Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance
  - KINE 261E Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf
  - KINE 261F Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics
  - KINE 261G Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball
  - KINE 261H Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming
  - KINE 261J Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis
  - KINE 261K Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field
  - KINE 261L Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise
  - KINE 261M Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts
  - KINE 261N Professional Activity Prep in Individual and Dual Sports/Movement Forms: Strength and Conditioning
  - KINE 261O Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga

Upper-division requirements (17)
- KINE 305 Prevention and Treatment of Sports Injuries (4)
- KINE 325 Motor Development Across the Lifespan (4)
- KINE 360 Physical Activity and Aging (2)
- KINE 370 Measurement and Statistics in Kinesiology (4)
- KINE 410 Motor Control and Skill Learning (4)
- KINE 480 Biomechanics (5)
- KINE 481 Exercise Physiology (5)
- KINE 490 Senior Seminar in Kinesiology (2)
- KINE 493 Internship (2)
- PSYC 390 Abnormal Psychology (4)

Total Units: 43
## Minor in Recreation

### Requirements (24 units)

#### Requirements for a minor in Recreation

##### Lower-division requirements (16)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>First Aid</td>
<td>2</td>
</tr>
<tr>
<td>KINE 203</td>
<td>Introduction to Recreation</td>
<td>4</td>
</tr>
<tr>
<td>KINE 254</td>
<td>Field Experience</td>
<td>2</td>
</tr>
<tr>
<td>KINE 271</td>
<td>Recreation Leadership</td>
<td>4</td>
</tr>
<tr>
<td>KINE 277</td>
<td>Recreation Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

##### Upper-division requirements (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 365</td>
<td>Outdoor Education and Camp Leadership</td>
<td>4</td>
</tr>
<tr>
<td>KINE 471</td>
<td>Exercise Science Program Management</td>
<td>4</td>
</tr>
</tbody>
</table>

### Certificate in Coaching

#### Requirements (33 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

#### Certificate requirements

##### Lower-division requirements (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>First Aid</td>
<td>2</td>
</tr>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 261A</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Archery</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261B</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261C</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261E</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261F</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261G</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball</td>
<td>4</td>
</tr>
</tbody>
</table>

##### Upper-division requirements (21)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 267</td>
<td>Sports Officiating</td>
<td>2</td>
</tr>
<tr>
<td>KINE 323</td>
<td>Soicology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 324</td>
<td>Psychology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 343</td>
<td>Methods and Techniques of Coaching</td>
<td>4</td>
</tr>
<tr>
<td>KINE 472</td>
<td>Program Design in Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 479</td>
<td>Qualitative Biomechanics</td>
<td>5</td>
</tr>
<tr>
<td>or KINE 480</td>
<td>Biomechanics</td>
<td></td>
</tr>
</tbody>
</table>

### Certificate in Fitness Management

#### Requirements (33 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 261H</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261J</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261K</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Track and Field</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261L</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Aerobic Exercise</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261M</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Martial Arts</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261N</td>
<td>Professional Activity Prep in Individual and Dual Sports/Movement Forms: Strength and Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>KINE 261O</td>
<td>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Yoga</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 263A</td>
<td>Professional Activity Preparation of Team Sports: Basketball</td>
<td>4</td>
</tr>
<tr>
<td>KINE 263B</td>
<td>Professional Activity Preparation of Team Sports: Football (Flag)</td>
<td>4</td>
</tr>
<tr>
<td>KINE 263C</td>
<td>Professional Activity Preparation of Team Sports: Soccer</td>
<td>4</td>
</tr>
<tr>
<td>KINE 263D</td>
<td>Professional Activity Preparation of Team Sports: Softball</td>
<td>4</td>
</tr>
<tr>
<td>KINE 263E</td>
<td>Professional Activity Preparation of Team Sports: Volleyball</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 267</td>
<td>Sports Officiating</td>
<td>2</td>
</tr>
<tr>
<td>KINE 323</td>
<td>Soicology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 324</td>
<td>Psychology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 343</td>
<td>Methods and Techniques of Coaching</td>
<td>4</td>
</tr>
<tr>
<td>KINE 472</td>
<td>Program Design in Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 479</td>
<td>Qualitative Biomechanics</td>
<td>5</td>
</tr>
<tr>
<td>or KINE 480</td>
<td>Biomechanics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 267</td>
<td>Sports Officiating</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 323</td>
<td>Soicology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 324</td>
<td>Psychology of Physical Activity</td>
<td>4</td>
</tr>
<tr>
<td>KINE 343</td>
<td>Methods and Techniques of Coaching</td>
<td>4</td>
</tr>
<tr>
<td>KINE 472</td>
<td>Program Design in Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>KINE 479</td>
<td>Qualitative Biomechanics</td>
<td>5</td>
</tr>
<tr>
<td>or KINE 480</td>
<td>Biomechanics</td>
<td></td>
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</tbody>
</table>

### Total Units

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
</tr>
</tbody>
</table>
## Certificate requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 305</td>
<td>Prevention and Treatment of Sports Injuries</td>
<td>4</td>
</tr>
<tr>
<td>KINE 454</td>
<td>Field Experience II</td>
<td>3</td>
</tr>
<tr>
<td>KINE 471</td>
<td>Exercise Science Program Management</td>
<td>4</td>
</tr>
<tr>
<td>KINE 480</td>
<td>Biomechanics</td>
<td>5</td>
</tr>
<tr>
<td>KINE 481</td>
<td>Exercise Physiology</td>
<td>5</td>
</tr>
<tr>
<td>KINE 482</td>
<td>Contemporary Fitness Programs</td>
<td>4</td>
</tr>
<tr>
<td>KINE 483</td>
<td>Exercise Prescription</td>
<td>4</td>
</tr>
<tr>
<td>KINE 580</td>
<td>Exercise, Energy and Human Performance</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

## Certificate in Recreation Leadership

**Requirements (31 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

## Certificate Requirements

### Lower-division requirements (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 203</td>
<td>Introduction to Recreation</td>
<td>4</td>
</tr>
<tr>
<td>KINE 271</td>
<td>Recreation Leadership</td>
<td>4</td>
</tr>
<tr>
<td>KINE 277</td>
<td>Recreation Programming</td>
<td>4</td>
</tr>
<tr>
<td><strong>Four units chosen from:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 137A</td>
<td>Aquatic Activities: Lifeguard Training</td>
<td></td>
</tr>
<tr>
<td>KINE 137C</td>
<td>Aquatic Activities: Basic and Emergency Water Safety</td>
<td></td>
</tr>
<tr>
<td>KINE 137D</td>
<td>Aquatic Activities: Boating and Canoeing</td>
<td></td>
</tr>
<tr>
<td>KINE 137F</td>
<td>Aquatic Activities: Scuba Diving</td>
<td></td>
</tr>
<tr>
<td>KINE 137G</td>
<td>Aquatic Activities: Skin Diving</td>
<td></td>
</tr>
<tr>
<td>KINE 137H</td>
<td>Aquatic Activities: Springboard Diving</td>
<td></td>
</tr>
<tr>
<td>KINE 137J</td>
<td>Aquatic Activities: Swimming</td>
<td></td>
</tr>
<tr>
<td>KINE 137K</td>
<td>Aquatic Activities: Water Polo</td>
<td></td>
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<tr>
<td><strong>Four units chosen from:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 146A</td>
<td>Outdoor Skills Activities: Backpacking</td>
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<tr>
<td>KINE 146B</td>
<td>Outdoor Skills Activities: Camping</td>
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<tr>
<td>KINE 146C</td>
<td>Outdoor Skills Activities: Mountaineering</td>
<td></td>
</tr>
<tr>
<td>KINE 146D</td>
<td>Outdoor Skills Activities: Orienteering</td>
<td></td>
</tr>
<tr>
<td>KINE 146E</td>
<td>Outdoor Skills Activities: Survival Skills</td>
<td></td>
</tr>
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</table>

### Upper-division requirements (11)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 365</td>
<td>Outdoor Education and Camp Leadership</td>
<td>4</td>
</tr>
<tr>
<td>KINE 454</td>
<td>Field Experience II</td>
<td>3</td>
</tr>
<tr>
<td>KINE 471</td>
<td>Exercise Science Program Management</td>
<td>4</td>
</tr>
<tr>
<td>or KINE 472</td>
<td>Program Design in Physical Education</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>
Department of Mathematics

Bachelor of Arts
- Mathematics
- Mathematics - Teaching Track
- Mathematics - Integrated Teaching Track

Bachelor of Science
Mathematics

Teaching Credential Program
Mathematics

Minor
- Mathematics
- Applied Mathematics

Master of Arts
- Mathematics

Master of Arts in Teaching
- Mathematics

Certificate Programs
- Introductory Actuarial Science
- Introductory Mathematics

As the role of mathematics in society continues to grow, the value of a solid foundation in mathematics increases. The Department of Mathematics offers four bachelor degrees. The Bachelor of Arts, Teaching Track is recommended by the department for prospective secondary mathematics teachers. Exceptionally well prepared students may undertake the integrated teaching track option, which includes the course work for a Single Subject Teaching Credential. The Bachelor of Science in Mathematics is particularly suitable for students contemplating graduate work, either in mathematics or a related field. The Bachelor of Arts (non teaching track) degree is appropriate for students pursuing a mathematics-related career other than teaching.

Additionally, double majors are not uncommon since the Department of Physics and School of Computer Science and Engineering work closely with the Department of Mathematics in structuring their mathematically based courses.

The department offers two graduate degrees. The Master of Arts degree emphasized mathematical content courses and is appropriate for those planning a career in teaching at the junior college level, or those considering further graduate work. The Master of Arts in Teaching offers a curriculum of combined mathematics and pedagogy courses, making it ideal for middle and high school mathematics teachers. The emphasis is on deepening and broadening the student’s knowledge of the mathematics that underlies the high school curriculum. Core courses for both programs are offered in the evening to accommodate the working student.

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 (p. 14).

Teaching Credential Program
In order to be recommended for the teaching credential students must complete the requirements of the B.A. in Mathematics, Teaching Track as well as certain prerequisites of the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements for the single subject waiver program contact the Credentials Office, CE-102.

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, completed with a grade of "A-" or better, and culminating in a presentation to the department.

Current Faculty
Susan L. Addington, Professor
B.S. 1976, Marlboro College
M.A. 1978, Ph.D. 1981, State University of New York at Stony Brook

Joyce C. Ahlgren, Lecturer
B.A. 1972, University California at Santa Barbara
M.A. 2003, California State University, San Bernardino

Jeremy Aikin, Assistant Professor
B.S. 2013, University of California, Riverside

Joseph D. Chavez, Professor
B.S. 1982, University of San Francisco
M.S. 1985, Ph.D. 1987, University of California, Riverside

Corey M. Dunn, Associate Professor
B.S. 2000, Pacific Lutheran University
M.S. 2002, Ph.D. 2006, University of Oregon

Nadia Dyakevich, Professor
M.Sc. 1997, Moscow State Institute of Electronics and Mathematics
M.Sc. 1998, Ph.D. 2002, University of Louisiana at Lafayette

Hajrudin Fejzic, Professor
B.S. 1987, University of Sarajevo, Sarajevo, Bosnia and Herzegovina
Ph.D. 1992, Michigan State University

Davida D. Fischman, Professor
B.S. 1976, M.S. 1978, Ph.D. 1989, Ben Gurion University

Christopher F. Freiling, Professor
B.S. 1975, University of San Francisco
Ph.D. 1981, University of California, Los Angeles

Gary R. Griffing, Professor
B.S. 1981, M.S. 1984, Ph.D. 1986, University of California, Riverside

Ilseop Han, Professor
B.A. 1986, M.S. 1988, Korea University
Ph.D. 1999, University of California, San Diego

Zahid Hasan, Professor
B.S. 1973, M.S. 1976, University of Punjab, Pakistan
Ph.D. 1982, University of Birmingham, England

Madeleine Jetter, Associate Professor
B.A. 1999, Columbia University
M.A. 2001, Ph.D. 2007, University of California, Los Angeles

Yuichiro Kakihara, Professor
B.S. 1974, M.S. 1976, Dr. Sci. 1985, Tokyo Institute of Technology, Tokyo, Japan

Su Liang, Assistant Professor

Giovanna Llosent, Associate Professor
B.A. 1999, University of Costa Rica
M.S. 2006, Ph.D. 2007, University of Iowa

Min-Lin Lo, Associate Professor
B.S. 1997, National Tsing-Hua University, Hinchu, Taiwan
M.A. 2000, Ph.D. 2004, State University of New York at Buffalo

Shawnee L. McMurran, Professor
B.S. 1985, M.S. 1987, Ph.D. 1991, University of California, Riverside

Corrine Previte, Assistant Professor
B.S. 2009, University of Redlands

Dan C. Rinne, Professor
B.S. 1975, University of Missouri, Columbia
M.A., Ph.D. 1979, University of California, Santa Barbara

John Sarli, Professor
A.B. 1974, Brown University
Ph.D. 1984, University of California, Santa Cruz

Charles S. Stanton, Professor, Chair
A.B. 1977, University of California, Berkeley
M.A. 1980, Ph.D. 1982, University of Wisconsin, Madison

Rolland Trapp, Professor
B.A. 1984, Knox College
M.A. 1985, Ph.D. 1990, Columbia University

Belisario Ventura, Professor
Lic. 1976, University of del Valle, Guatemala
M.A. 1978, Ph.D. 1984, University of California, Berkeley

J. Paul Vicknair, Professor
B.S. 1974, M.S. 1978, Ph.D. 1982, Louisiana State University

Laura J. Wallace, Professor
B.S. 1991, California State Polytechnic University, Pomona
M.S. 1992, Ph.D. 1998, University of California, Riverside

Wenxiang Wang, Professor
B.A. 1982, Tsinghua University, Beijing, China
M.A. 1984, Ph.D. 1988, Princeton University

Peter D. Williams, Professor, Associate Dean
B.S. 1979, Ph.D. 1983, University of St. Andrews, Scotland

Emeriti
Joan T. Hallett, Professor
James S. Okon, Professor
Chetan Prakash, Professor
Robert G. Stein, Professor

Undergraduate Degrees

Bachelor of Arts
- Mathematics (p. 661)
- Mathematics - Teaching Track (p. 662)
- Mathematics - Integrated Teaching Track (p. 661)

Bachelor of Science
- Mathematics (p. 663)

Graduate Degrees

Master of Arts
- Mathematics (p. 665)

Master of Arts in Teaching
- Mathematics (p. 666)

Minors
- Applied Mathematics (p. 667)
- Mathematics (p. 668)

Certificate Programs
- Introductory Actuarial Science (p. 668)
- Introductory Mathematics (p. 668)

Courses

MATH 70. Fundamental Arithmetic. 4 Units.
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.

MATH 75A. Basic Mathematics A. 4 Units.
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. Arithmetic of integers, rational numbers and decimals, including the order of operations, percentages, fractions, ratio and proportion, linear equations.
MATH 75B. Basic Mathematics B. 4 Units.
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. Linear equations and their graphs, systems of linear equations, polynomials, factoring, integer exponents and factoring.

MATH 75C. Basic Mathematics C. 4 Units.
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. Integer exponents and factoring, systems of linear equations, solving rational equations, quadratic equations, the Pythagorean theorem, the distance formula.

MATH 79. Algebra Workshop. 1 Unit.
Prerequisites: consent of instructor
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.

MATH 80. Fundamental Algebra. 4 Units.
Offered: Fall, Winter and Spring
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.

MATH 90. Intermediate Algebra. 4 Units.
Prerequisites: passage of the Entry Level Mathematics examination or a satisfactory score on the appropriate placement test
Offered: Fall, Winter and Spring
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.

MATH 100. College Algebra. 4 Units.
Prerequisites: passing score on the Entry Level Mathematics examination or passage of MATH 90
Offered: Fall, Winter and Spring
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.

MATH 115. The Ideas of Mathematics. 4 Units.
Prerequisites: passing score on the Entry Level Mathematics examination or passage of MATH 90
Offered: Fall, Winter and Spring
Sets and their applications to topics in discrete mathematics that will include enumeration techniques and finite probability spaces. Graded A, B, C/no credit.

MATH 120. Pre-Calculus Mathematics. 4 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination or passage of MATH 110
Offered: Fall, Winter and Spring
Trigonometric functions, trigonometric identities, right angle trigonometry, complex numbers, conic sections, binomial theorem, induction. Graded A, B, C/no credit.

MATH 165. Introductory Statistics and Hypothesis Testing. 4 Units.
Prerequisites: passing score on the Entry Level Mathematics examination, or passage of MATH 90. GE-B1
Offered: Fall, Winter and Spring
Introductory statistics with applications to a variety of disciplines. Topics will include descriptive statistics, correlation, distribution or random variables, sampling distributions, interval estimation, hypothesis testing, and elementary Bayesian theory. Formerly MATH 305. GE credit for Nursing majors only.

MATH 180. Critical Thinking Through Applications of Mathematical Logic. 4 Units.
Prerequisites: 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, MATH 212, MATH 213, MATH 251, MATH 252 required for majors in chemistry, computer science, mathematics or physics
Offered: Fall, Winter and Spring
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.

MATH 192. Methods of Calculus. 4 Units.
Prerequisites: 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, MATH 212, MATH 213, MATH 251, MATH 252 required for majors in chemistry, computer science, mathematics or physics
Offered: Fall, Winter and Spring
A short course in calculus with emphasis on applications.

MATH 199. Technology in Math Education through Problem Solving. 3 Units.
Offered: Winter and Spring
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.

MATH 211. Basic Concepts of Calculus. 4 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination or passage of MATH 120
Offered: Fall, Winter and Spring
An introduction to limits and continuity, differentiation of functions in one variable (including trigonometric functions) and antiderivatives with applications.

MATH 212. Calculus II. 4 Units.
Prerequisites: MATH 211 (or MATH 200) with a grade of C or better
Offered: Fall, Winter and Spring
Techniques and applications of integration, differentiation and integration of transcendental functions.
MATH 213. Calculus III. 4 Units.
Prerequisites: MATH 212 (or MATH 201) with a grade of C or better
Offered: Fall, Winter and Spring
Sequences and series, numerical techniques, polar coordinates, parametric equations.

MATH 229. Geometry in Two and Three Dimensions. 4 Units.
Prerequisites: completion of the general education requirement in mathematics
Offered: Spring
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.

MATH 241. Problem Solving in Calculus. 2 Units.
Prerequisites: some programming experience and MATH 212.
Recommended: MATH 213
Offered: Fall, Winter and Spring
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.

MATH 251. Multivariable Calculus I. 4 Units.
Prerequisites: MATH 212 with a grade of C or better
Offered: Fall, Winter and Spring
Vectors and vector geometry in two and three dimensions. Elementary linear algebra. Multivariable functions. Parametrization of space curves.

MATH 252. Multivariable Calculus II. 4 Units.
Prerequisites: MATH 251, and MATH 213 with a grade of C or better
Offered: Fall, Winter and Spring
Differentiation and integration of vector functions with applications, multiple integration, line and surface integrals. Partial and directional derivatives. Theorems of Green and Stokes.

MATH 262. Applied Statistics. 4 Units.
Prerequisites: MATH 120
Prerequisite/Corequisite: MATH 211
Offered: Fall, Winter and Spring
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.

MATH 270. Elementary Differential Equations. 4 Units.
Prerequisites: MATH 252
Offered: Fall and Spring
First order equations, second order linear equations, linear equations with constant coefficients, variation of parameters, applications.

MATH 272. Discrete Mathematics. 4 Units.
Prerequisites: completion of the general education requirement in mathematics
Offered: Fall, Winter and Spring

MATH 301A. Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry. 4 Units.
Prerequisites: completion of MATH 115 and the general education requirements in written communication, oral communication, and critical thinking. Graded ABC/no credit
Offered: Fall, Winter and Spring
A course sequence for future teachers that develops knowledge of mathematics related to the K-8 curriculum, but that is considerably deeper than the standard K-8 content. Students completing the sequence will develop conceptual understanding, problem solving skills, and communication skills in mathematics. May not be counted toward fulfilling requirements in the mathematics major. Fundamental Concepts of Arithmetic and Geometry. Mathematical reasoning behind the structure and arithmetic of real number system. Connections between numbers, measurement, and geometry.

MATH 301B. Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry. 4 Units.
Prerequisites: completion of MATH 301A with a grade of C or better.
Graded ABC/no credit
Offered: Fall, Winter and Spring
A course sequence for future teachers that develops knowledge of mathematics related to the K-8 curriculum, but that is considerably deeper than the standard K-8 content. Students completing the sequence will develop conceptual understanding, problem solving skills, and communication skills in mathematics. May not be counted toward fulfilling requirements in the mathematics major. Transition from Concrete to Abstract in Algebra and Geometry. Development of algorithmic and algebraic thinking. Investigation of linear and proportional relationships through multiple representations. Introduction to geometric reasoning about figures in 2 and 3 dimensions.

MATH 301C. Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry. 4 Units.
Prerequisites: completion of MATH 301B with a grade of C or better.
Graded ABC/no credit
Offered: Fall, Winter and Spring
A course sequence for future teachers that develops knowledge of mathematics related to the K-8 curriculum, but that is considerably deeper than the standard K-8 content. Students completing the sequence will develop conceptual understanding, problem solving skills, and communication skills in mathematics. May not be counted toward fulfilling requirements in the mathematics major. Further Developments in Algebra and Geometry. Conceptual foundations of advanced algebra, including polynomial and other nonlinear functions. Extended geometric reasoning about figures in 2 and 3 dimensions, including concepts of congruence, similarity, and geometric transformations.
MATH 302. Problem Solving in Mathematics. 4 Units.
Prerequisites: completion of the general education requirements in mathematics, written communication, oral communication and critical thinking
Offered: Fall, Winter and Spring
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.

MATH 308. Problem Solving Through Theory and Practice. 2 Units.
Prerequisites: MATH 301C with a grade of at least C or consent of instructor
Offered: Fall, Winter and Spring
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.

MATH 320. Mathematical Interest Theory. 4 Units.
Prerequisites: MATH 213 and 241
Offered: Spring
Development of the mathematical theory of interest in both finite and continuous time, including the accumulation function and special cases of simple and compound interest, valuation of the discrete and continuous streams of payments, and nominal and effective interest and discount rates. Application of the theory, with computer applications, to actuarial science, including amortization of lump sums, fixed income securities, and depreciation. Three hours lecture and two hours laboratory.

MATH 329. Transformation Geometry. 4 Units.
Prerequisites: MATH 251 and high school geometry or equivalent
Offered: Fall, Winter and Spring
Development of Euclidean plane geometry in terms of congruence and similarity transformations. Classification of affine transformations with applications to classical theorems. Introduction to invariance transformations and related constructions.

MATH 331. Linear Algebra. 4 Units.
Prerequisites: MATH 251 or consent of instructor
Offered: Fall, Winter and Spring
Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; the theory of linear transformations; characteristic values and vectors; applications.

MATH 345. Number Theory and Proof. 4 Units.
Prerequisites: MATH 213
Offered: Fall, Winter and Spring
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.

MATH 355. Analysis and Proof. 4 Units.
Prerequisites: MATH 213
Offered: Fall, Winter and Spring
Introduction to ideas and techniques of proof with an emphasis on analysis. Topics chosen from: logic, set theory, functions, cardinality and analysis.

MATH 372. Combinatorics. 4 Units.
Prerequisites: MATH 213; or MATH 211, MATH 262 and MATH 272
Offered: Fall, Winter and Spring
Permutations and combinations, recurrence relations with applications and topics in graph theory.

MATH 395A. Directed Study. 1 Unit.
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
Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major.

MATH 395B. Directed Study. 2 Units.
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
Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major.

MATH 395C. Directed Study. 3 Units.
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
Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major.

MATH 395D. Directed Study. 4 Units.
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
Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major.

MATH 399. Service Learning Experience in Mathematics. 2 Units.
Prerequisite/Corequisite: MATH 329
Offered: Fall and Winter
Supervised learning experience in the secondary mathematics classroom. Observation and participation that provides future teachers with first-hand experience and the opportunity to link their undergraduate mathematics course work with classroom experience. Includes weekly meetings on campus (one hour per week) and observation in a secondary classroom (20 hours). Graded A, B, C, or no credit.

MATH 455. Fourier Analysis. 4 Units.
Prerequisites: MATH 270 and MATH 355
MATH 465. Probability Theory. 4 Units.
Prerequisites: MATH 252 and MATH 372
Offered: Fall, Winter and Spring
Probability spaces, independence, conditional probability, densities, mass and distribution functions, moments, joint and marginal distributions, moment generating functions, Chebychev's inequality, law of large numbers and other topics.

MATH 470. Ordinary Differential Equations. 4 Units.
Prerequisites: MATH 270 and 331
Offered: Winter
Topics from among: first order equations, linear equations, systems of equations, iterative methods, series solutions, Laplace transformations, applications.

MATH 474. Numerical Methods. 4 Units.
Prerequisites: CSE 201 and MATH 331
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.

MATH 480. Topics in History of Mathematics. 4 Units.
Prerequisites: MATH 252, MATH 329, MATH 345 and MATH 355
Offered: Fall, Winter and Spring
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.

MATH 499. Mathematics in the Secondary Classroom. 4 Units.
Prerequisites: MATH 329, MATH 331 and MATH 399. Graded ABC/no credit
Offered: Winter and Spring
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.

MATH 510. Topics in Mathematics. 4 Units.
Prerequisites: senior or graduate standing
Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change.

MATH 529. Advanced Geometry. 4 Units.
Prerequisites: MATH 329, MATH 331 and MATH 345
Offered: Fall, Winter and Spring
Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra.

MATH 531. Advanced Linear Algebra. 4 Units.
Prerequisites: MATH 331
Inner product spaces; duality of vector spaces; canonical forms; spectral theory; quadratic forms.
MATH 595B. Independent Study. 2 Units.
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.
An independent study course for senior mathematics majors. A total of four units may apply toward the major.

MATH 595C. Independent Study. 3 Units.
Prerequisites: MATH 331 and MATH 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.
An independent study course for senior mathematics majors. A total of four units may apply toward the major.

MATH 595D. Independent Study. 4 Units.
Prerequisites: MATH 331 and MATH 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.
An independent study course for senior mathematics majors. A total of four units may apply toward the major.

MATH 599. Senior Seminar for Future Mathematics Educators. 2 Units.
Prerequisites: MATH 199, MATH 480 and MATH 499
Offered: Fall and Spring
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.

MATH 601. Assessment Portfolio. 0 Units.
Prerequisites: advancement to candidacy
Preparation of an acceptable student portfolio assessing and documenting academic progress. For detailed requirements see the MAT graduate coordinator.

MATH 604. Seminar in Problem Solving I. 4 Units.
Prerequisites: MATH 329, MATH 331, MATH 345, MATH 355 and MATH 372
A problem solving seminar emphasizing induction and analogy in the style of George Polya.

MATH 605. Seminar in Problem Solving II. 4 Units.
Prerequisites: MATH 604
Continuation of MATH 604.

MATH 610. Topics in Mathematics. 4 Units.
Prerequisites: graduate standing
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.

MATH 611. Operations Analysis. 4 Units.
Prerequisites: one of the following: ADMN 210, PSYC 210, SSCI 215, MATH 305, MATH 350, or equivalent
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.

MATH 614. Studies in Geometry. 4 Units.
Prerequisites: MATH 529, MATH 545 and admission to the M.A. in Mathematics program
Advanced topics in affine, projective, elliptic, and hyperbolic geometry. Comparison of synthetic and analytic methods of proof.

MATH 616. Studies in Algebra. 4 Units.
Prerequisites: MATH 546 and admission to the M.A. in Mathematics program
Advanced topics in algebra to include constructability, transcendence and solvability of groups and equations.

MATH 618. Studies in Analysis. 4 Units.
Prerequisites: MATH 553; either MATH 554, MATH 555, or MATH 557; and admission to the M.A. in Mathematics program
Theory of multivariable calculus with applications, to include the Inverse Function Theorem, as well as Stokes and Greens theorems.

MATH 631. Algebra from a Teaching and Problem Solving Perspective. 6 Units.
Prerequisites: admission to the MAT in Mathematics program and MATH 345, or consent of instructor
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.

MATH 632. Geometry from a Teaching and Problem Solving Perspective. 6 Units.
Prerequisites: MATH 329 and admission to the MAT in Mathematics program, or consent of instructor
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.

MATH 633. Trigonometry from a Teaching and Problem Solving Perspective. 6 Units.
Prerequisites: MATH 213, MATH 251, and admission to the MAT in Mathematics program, or consent of instructor
Trigonometric functions, identities and equations as foundation for study of the complex numbers, the complex plane, polar coordinates, de Moivres 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.
MATH 634. Calculus from a Teaching and Problem Solving Perspective. 6 Units.
Prerequisites: MATH 213, 251, and admission to the MAT in Mathematics program, or consent of instructor. Math 631, 632, and 633 are recommended.
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.

MATH 635. Statistics and Probability from a Teaching and Problem Solving Perspective. 6 Units.
Prerequisites: MATH 372 and admission to the MAT in Mathematics program, or consent of instructor. Math 631, 632, and 633 are recommended.
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.

MATH 664. Project Design in Teaching Mathematics. 2 Units.
Prerequisites: advancement to candidacy and consent of instructor.
Steps and processes involved in the design and development of research proposals with emphasis on the master’s project. Graded credit/no credit.

MATH 678. Teaching Practicum. 2 Units.
Prerequisites: admission to the masters program in teaching with a major in mathematics.
Supervised practice in individual and/or classroom teaching. May be repeated for a total of four units.

MATH 695B. Graduate Independent Study. 2 Units.
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.
An independent study course for graduate students in mathematics.

MATH 695C. Graduate Independent Study. 3 Units.
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.
An independent study course for graduate students in mathematics.

MATH 695D. Graduate Independent Study. 4 Units.
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.
An independent study course for graduate students in mathematics.

MATH 696. Masters Degree Project I. 3 Units.
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.
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.

MATH 697. Masters Degree Project II. 1 Unit.
Prerequisites: MATH 696 and consent of instructor.
Finalizing the masters 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.

MATH 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
MATH 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 699. Master of Arts in Teaching Mathematics Thesis. 4 Units.
Prerequisites: graduate standing, consent of the instructor, approval of the thesis proposal by the graduate committee and submission of at least three contributions to the Assessment Portfolio. A written proposal for a thesis following departmental guidelines must be submitted to the graduate committee no later than the ninth week of the quarter preceding enrollment in MATH 699. Formerly MATH 600
Written thesis, an oral presentation of the thesis 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.

MATH 999A. Comprehensive Examination: Written. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.
MATH 999B. Comprehensive Examination:
Oral. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
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.

Bachelor of Arts in Mathematics

Total units for graduation: 180

Requirements for the B.A. in Mathematics

Lower-division requirements (30)
CSE 201 Computer Science I 4
MATH 211 Basic Concepts of Calculus 4
MATH 212 Calculus II 4
MATH 213 Calculus III 4
MATH 241 Problem Solving in Calculus 2
MATH 251 Multivariable Calculus I 4
MATH 252 Multivariable Calculus II 4
MATH 270 Elementary Differential Equations 4

Upper-division requirements (32)
MATH 329 Transformation Geometry 4
MATH 331 Linear Algebra 4
MATH 345 Number Theory and Proof 4
MATH 355 Analysis and Proof 4
MATH 372 Combinatorics 4
MATH 465 Probability Theory 4
MATH 545 Abstract Algebra I 4
MATH 553 Analysis I 4

Electives (12)
Twelve units of mathematics electives chosen from the following in consultation with an advisor:
MATH 320 Mathematical Interest Theory
MATH 455 Fourier Analysis
MATH 470 Ordinary Differential Equations
MATH 474 Numerical Methods
MATH 480 Topics in History of Mathematics
MATH 510 Topics in Mathematics
MATH 529 Advanced Geometry
MATH 531 Advanced Linear Algebra
MATH 546 Abstract Algebra II
MATH 554 Analysis II
MATH 555 Introduction to Point-Set Topology
MATH 557 Complex Variables
MATH 565 Mathematical Statistics
MATH 570 Partial Differential Equations
MATH 576 Introduction to Mathematical Methods

Bachelor of Arts in Mathematics - Integrated Teaching Track

Total units 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, ESEC 550B and ESEC 550C.

Lower-division requirements (25)
MATH 199 Technology in Math Education through Problem Solving 3
MATH 211 Basic Concepts of Calculus 4
MATH 212 Calculus II 4
MATH 213 Calculus III 4
MATH 241 Problem Solving in Calculus 2
MATH 251 Multivariable Calculus I 4
MATH 252 Multivariable Calculus II 4

Upper-division requirements (52)
MATH 329 Transformation Geometry 4
MATH 331 Linear Algebra 4
MATH 345 Number Theory and Proof 4
MATH 355 Analysis and Proof 4
MATH 372 Combinatorics 4
MATH 399 Service Learning Experience in Mathematics 4
MATH 465 Probability Theory 4
MATH 480 Topics in History of Mathematics 4
MATH 499 Mathematics in the Secondary Classroom 4
MATH 529 Advanced Geometry 4
MATH 545 Abstract Algebra I 4
MATH 553 Analysis I 4
MATH 565 Mathematical Statistics 4
MATH 599 Senior Seminar for Future Mathematics Educators 2

Education Courses (44)
ESEC 405 Introduction to Secondary School Culture 4
ESEC 407 Secondary School Teaching 4
ESEC 410 Adolescent Development and Learning 4
ESEC 413 Language Interaction in the Classroom 4
ESEC 417 Educational Psychology: Instructional Theory, Assessment and Classroom Management 4
ESEC 419 Literacy Across the Curriculum 4
Admission to the Single Subject Teaching Credential Program and Student Teaching

1. Requirements for entering the Single Subject Teaching 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 24 months;
   e. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
   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 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 coursework;
   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:
   b. 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.
   c. 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.
   d. 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.

Bachelor of Arts 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 199</td>
<td>Technology in Math Education through Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Problem Solving in Calculus</td>
<td>2</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Multivariable Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>MATH 329</td>
<td>Transformation Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 345</td>
<td>Number Theory and Proof</td>
<td>4</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Analysis and Proof</td>
<td>4</td>
</tr>
<tr>
<td>MATH 372</td>
<td>Combinatorics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 399</td>
<td>Service Learning Experience in Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>MATH 465</td>
<td>Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 480</td>
<td>Topics in History of Mathematics</td>
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</tr>
<tr>
<td>MATH 499</td>
<td>Mathematics in the Secondary Classroom</td>
<td>4</td>
</tr>
<tr>
<td>MATH 529</td>
<td>Advanced Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 545</td>
<td>Abstract Algebra I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 553</td>
<td>Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 555</td>
<td>Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 599</td>
<td>Senior Seminar for Future Mathematics Educators</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives (12)**

Twelve units chosen from the following in consultation with an advisor:

- MATH 270 Elementary Differential Equations
- MATH 320 Mathematical Interest Theory
- MATH 455 Fourier Analysis
- MATH 470 Ordinary Differential Equations
- MATH 474 Numerical Methods
- MATH 510 Topics in Mathematics
- MATH 531 Advanced Linear Algebra
- MATH 546 Abstract Algebra II
- MATH 554 Analysis II
- MATH 555 Introduction to Point-Set Topology
- MATH 557 Complex Variables
- MATH 565 Mathematical Statistics
- MATH 570 Partial Differential Equations

**Bachelor of Science in Mathematics**

**Requirements (102-120 units)**

**Total units required for graduation:** 180-182

**Requirements for the B.S. in Mathematics**

**Lower-division requirements (30)**
- CSE 201 Computer Science I 4
- MATH 211 Basic Concepts of Calculus 4
- MATH 212 Calculus II 4
- MATH 213 Calculus III 4
- MATH 241 Problem Solving in Calculus 2
- MATH 251 Multivariable Calculus I 4
- MATH 252 Multivariable Calculus II 4
- MATH 270 Elementary Differential Equations 4

**Upper-division requirements (32)**
- MATH 329 Transformation Geometry 4
- MATH 331 Linear Algebra 4
- MATH 345 Number Theory and Proof 4
- MATH 355 Analysis and Proof 4
- MATH 372 Combinatorics 4
- MATH 465 Probability Theory 4
- MATH 545 Abstract Algebra I 4
- MATH 553 Analysis I 4

**Concentration (40-56)**

Students must choose either the general track or one of the applied concentrations which follow:

**Total Units:** 102-118

**General Track**

**Lower-division requirement (5)**
- PHYS 221 General Physics I 5

**Electives (36)**

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
- MATH 455 Fourier Analysis
- MATH 470 Ordinary Differential Equations
- MATH 474 Numerical Methods
- MATH 557 Complex Variables
- MATH 565 Mathematical Statistics
- MATH 570 Partial Differential Equations
- MATH 576 Introduction to Mathematical Methods

**Group B (Pure Mathematics):**
- MATH 480 Topics in History of Mathematics
- MATH 510 Topics in Mathematics
- MATH 529 Advanced Geometry
- MATH 531 Advanced Linear Algebra
- MATH 546 Abstract Algebra II
- MATH 554 Analysis II
- MATH 555 Introduction to Point-Set Topology
- MATH 595D Independent Study

**Total Units:** 41

**Concentration in Biology (56-58 units)**

**Lower-division requirements (27)**
- BIOL 200 Biology of the Cell 5
- BIOL 201 Biology of Organisms 5
- BIOL 202 Biology of Populations 5
- CHEM 215 General Chemistry I: Atomic Structure and Chemical Bonding 6
- CHEM 216 General Chemistry II: Principles of Chemical Reactions 6

**Upper-division requirements (17)**
- BIOL 300 Cell Physiology 5
- MATH 470 Ordinary Differential Equations 4
- MATH 565 Mathematical Statistics 4
- MATH 576 Introduction to Mathematical Methods 4
Electives (12-14)
A minimum of eight units chosen from:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 321</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL 423</td>
<td>Genetics</td>
</tr>
<tr>
<td>BIOL 450</td>
<td>Ecology</td>
</tr>
<tr>
<td>BIOL 522</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>BIOL 572</td>
<td>Virology</td>
</tr>
<tr>
<td>BIOL 573</td>
<td>Immunology</td>
</tr>
</tbody>
</table>

Four units chosen from:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 320</td>
<td>Mathematical Interest Theory</td>
</tr>
<tr>
<td>MATH 455</td>
<td>Fourier Analysis</td>
</tr>
<tr>
<td>MATH 474</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>MATH 480</td>
<td>Topics in History of Mathematics</td>
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<td>MATH 510</td>
<td>Topics in Mathematics</td>
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<tr>
<td>MATH 529</td>
<td>Advanced Geometry</td>
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<td>Introduction to Point-Set Topology</td>
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<tr>
<td>MATH 557</td>
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<tr>
<td>MATH 565</td>
<td>Mathematical Statistics</td>
</tr>
<tr>
<td>MATH 570</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Introduction to Mathematical Methods</td>
</tr>
<tr>
<td>MATH 595D</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Total Units 56-58

Concentration in Computer Science (40 units)

Lower-division requirement (4)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
</tr>
</tbody>
</table>

Upper-division requirements (8)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 320</td>
<td>Programming Languages</td>
</tr>
<tr>
<td>CSE 330</td>
<td>Data Structures</td>
</tr>
</tbody>
</table>

Electives (28)

Twelve units chosen from:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 420</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>CSE 431</td>
<td>Algorithm Analysis</td>
</tr>
<tr>
<td>CSE 500</td>
<td>Introduction to Formal Languages and Automata</td>
</tr>
<tr>
<td>CSE 501</td>
<td>Introduction to Theory of Computation</td>
</tr>
<tr>
<td>CSE 512</td>
<td>Introduction to Artificial Intelligence</td>
</tr>
<tr>
<td>CSE 513</td>
<td>Advanced Artificial Intelligence</td>
</tr>
<tr>
<td>CSE 515</td>
<td>Automated Reasoning</td>
</tr>
<tr>
<td>CSE 520</td>
<td>Advanced Computer Graphics</td>
</tr>
<tr>
<td>CSE 524</td>
<td>Supercomputing and Visualization</td>
</tr>
<tr>
<td>CSE 535</td>
<td>Numerical Computation</td>
</tr>
<tr>
<td>CSE 550</td>
<td>Advanced Bioinformatics I: Sequence Analysis</td>
</tr>
<tr>
<td>CSE 551</td>
<td>Advanced Bioinformatics II: Numerical Modeling</td>
</tr>
</tbody>
</table>

Sixteen units of mathematics electives selected from the following with at least eight units chosen from 500-level courses:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 320</td>
<td>Mathematical Interest Theory</td>
</tr>
<tr>
<td>MATH 455</td>
<td>Fourier Analysis</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Ordinary Differential Equations</td>
</tr>
<tr>
<td>MATH 474</td>
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<tr>
<td>MATH 480</td>
<td>Topics in History of Mathematics</td>
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<tr>
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<tr>
<td>MATH 529</td>
<td>Advanced Geometry</td>
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<td>Introduction to Point-Set Topology</td>
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<tr>
<td>MATH 557</td>
<td>Complex Variables</td>
</tr>
<tr>
<td>MATH 565</td>
<td>Mathematical Statistics</td>
</tr>
<tr>
<td>MATH 570</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Introduction to Mathematical Methods</td>
</tr>
<tr>
<td>MATH 595D</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Total Units 40

Concentration in Economics (40 units)

Lower-division requirements (8)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
</tr>
</tbody>
</table>

Upper-division requirements (12)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>MATH 320</td>
<td>Mathematical Interest Theory</td>
</tr>
<tr>
<td>MATH 565</td>
<td>Mathematical Statistics</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Introduction to Mathematical Methods</td>
</tr>
</tbody>
</table>

Electives (20)

Sixteen units chosen from:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 300</td>
<td>Intermediate Macroeconomics</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
</tr>
<tr>
<td>ECON 410</td>
<td>Money and Banking</td>
</tr>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
</tr>
<tr>
<td>ECON 475</td>
<td>Public Finance</td>
</tr>
<tr>
<td>ECON 480</td>
<td>Quantitative Methods in Economics</td>
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<tr>
<td>ECON 490</td>
<td>Introduction to Econometrics</td>
</tr>
</tbody>
</table>

Four units chosen from:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 455</td>
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<tr>
<td>MATH 470</td>
<td>Ordinary Differential Equations</td>
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<tr>
<td>MATH 474</td>
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<tr>
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<tr>
<td>MATH 510</td>
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<tr>
<td>MATH 529</td>
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<td>MATH 557</td>
<td>Complex Variables</td>
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<tr>
<td>MATH 565</td>
<td>Mathematical Statistics</td>
</tr>
<tr>
<td>MATH 570</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Introduction to Mathematical Methods</td>
</tr>
<tr>
<td>MATH 595D</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Total Units 40

Concentration in Geographic Information Systems (48 units)

Lower-division requirements (14)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Map Interpretation</td>
</tr>
</tbody>
</table>
## GEOL 202
Introduction to Geographic Information Systems and Cartography 5

### Upper-division requirements (14)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Geographic Information Systems Applications</td>
<td>5</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

### Electives (20)
At least eight units to be chosen from:
- GEOG 306 Remote Sensing of the Environment 2
- GEOG 406 Digital Image Processing 4
- GEOG 575D-E Internship in Geography 6

Twelve units selected from the following with at least eight units chosen from 500-level courses:
- MATH 320 Mathematical Interest Theory 3
- MATH 455 Fourier Analysis 3
- MATH 470 Ordinary Differential Equations 3
- MATH 474 Numerical Methods 3
- MATH 480 Topics in Classical Physics: Mechanics 3
- MATH 480B Topics in Classical Physics: Electrodynamics 3
- MATH 485A Topics in Contemporary Physics 3
- MATH 573 Mathematical Methods of Physics III 3

Twelve units of mathematics electives selected from the following with at least four one unit course chosen from 500-level courses:
- MATH 320 Mathematical Interest Theory 3
- MATH 455 Fourier Analysis 3
- MATH 470 Ordinary Differential Equations 3
- MATH 474 Numerical Methods 3
- MATH 480 Topics in Classical Physics: Mechanics 3
- MATH 480B Topics in Classical Physics: Electrodynamics 3
- MATH 485A Topics in Contemporary Physics 3
- MATH 573 Mathematical Methods of Physics III 3

### Total Units
48

## Concentration in Physics (49 units)

### Lower-division requirements (21)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
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</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 224</td>
<td>General Physics IV</td>
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<tr>
<td>PHYS 225</td>
<td>General Physics V</td>
<td>3</td>
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### Upper-division requirement (4)
<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
<td>4</td>
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</tbody>
</table>

### Electives (24)
Twelve units chosen from:
- PHYS 306 Classical Mechanics I 3
- PHYS 307 Classical Mechanics II 3
- PHYS 313 Electrodynamics I 3
- PHYS 314 Electrodynamics II 3
- PHYS 315 Introduction to Modern Optics 3
- PHYS 324 Statistical and Thermal Physics 3
- PHYS 370 Introduction to Astrophysics 3
- PHYS 421 Quantum Mechanics I 3
- PHYS 422 Quantum Mechanics II 3
- PHYS 430 Advanced Physics Laboratory 3
- PHYS 450 Solid State Physics 3
- PHYS 461 Introduction to Nuclear Physics 3
- PHYS 463 Introduction to Elementary Particle Physics 3
- PHYS 473 Mathematical Methods of Physics II 3
- PHYS 480A Topics in Classical Physics: Mechanics 3
- PHYS 480B Topics in Classical Physics: Electrodynamics 3
- PHYS 485A Topics in Contemporary Physics 3
- PHYS 573 Mathematical Methods of Physics III 3

### Total Units
49

## Master of Arts in Mathematics

### Requirements (48 units)

The Master of Arts degree in Mathematics is a flexible program that allows students to tailor their studies to individual career goals. It emphasizes mathematical content courses and is appropriate not only for college teaching but also for students considering further graduate work.

Careful advising is essential to ensure that prerequisites for courses are met, and that the course work selected is appropriate for the student’s career goals.

### Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for admission to the program are:

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.
2. Students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics Graduate Committee.
4. Completion of the graduate entrance writing requirement.
5. Three letters of recommendation.
6. 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, 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 MATH 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 in Graduate Degree and Program Requirements (p. 60).

Degree Requirements (48 units)

Core courses (16)
- MATH 604 Seminar in Problem Solving I 4
- MATH 614 Studies in Geometry 4
- MATH 616 Studies in Algebra 4
- MATH 618 Studies in Analysis 4

Electives (28)
- 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)
- MATH 696 Masters Degree Project I 3
- MATH 697 Masters Degree Project II 1

Total Units 48

Master of Arts in Teaching-Mathematics

Requirements (48 units)
The Master of Arts in Teaching Mathematics (M.A.T.) program is designed for single subject credential teachers who wish to obtain a deeper understanding of mathematics and the teaching of mathematics as it applies to the secondary 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. 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 4
   - MATH 212 Calculus II 4
   - MATH 213 Calculus III 4
   - MATH 251 Multivariable Calculus I 4
   - MATH 329 Transformation Geometry 4
   - MATH 345 Number Theory and Proof 4
   - MATH 372 Combinatorics 4
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 699 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 thesis. A thesis proposal must be approved by the MAT Graduate Committee no later than the quarter preceding enrollment in EDUC 600 or MATH 699. The written thesis satisfies the graduation writing requirement. Successful completion of the thesis includes an oral presentation of the thesis to the faculty. Guidelines for submitting a thesis proposal and for the thesis 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 in Graduate Degree and Program Requirements (p. 60).

**Degree Requirements (48 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 631</td>
<td>Algebra from a Teaching and Problem Solving Perspective</td>
<td>6</td>
</tr>
<tr>
<td>MATH 632</td>
<td>Geometry from a Teaching and Problem Solving Perspective</td>
<td>6</td>
</tr>
<tr>
<td>MATH 633</td>
<td>Trigonometry from a Teaching and Problem Solving Perspective</td>
<td>6</td>
</tr>
<tr>
<td>MATH 634</td>
<td>Calculus from a Teaching and Problem Solving Perspective</td>
<td>6</td>
</tr>
<tr>
<td>MATH 635</td>
<td>Statistics and Probability from a Teaching and Problem Solving Perspective</td>
<td>6</td>
</tr>
</tbody>
</table>

Four units chosen from the following based on department approval:

- ESEC 672: Educational Assessment in Mathematics Teaching
- or EDSC 643: Assessment in the Science Classroom
- EDUC 607: Introduction to Educational Research
- EDUC 601B or MATH 695B: Advanced Independent Study Topics in Education
- EDUC 600: Masters Degree
- or MATH 699: Master of Arts in Teaching Mathematics Thesis

**Electives (4)**

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.

| Total Units | 48 |

**Minor in Applied Mathematics**

**Requirements (34-38 units)**

**Requirements for a minor in Applied Mathematics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Problem Solving in Calculus</td>
<td>2</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Multivariable Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one of the following groups:

| Total Units | 12-16 |

**Group A**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 270</td>
<td>Elementary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 355</td>
<td>Analysis and Proof</td>
<td>4</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

**Group B**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 270</td>
<td>Elementary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>
Group C

CSE 201 Computer Science I 4
MATH 331 Linear Algebra 4
MATH 474 Numerical Methods 4

Group D

MATH 372 Combinatorics 4
MATH 465 Probability Theory 4
MATH 565 Mathematical Statistics 4

Group E

MATH 331 Linear Algebra 4
MATH 372 Combinatorics 4
MATH 465 Probability Theory 4
MATH 576 Introduction to Mathematical Methods 4

Minor in Mathematics

Requirements (34 units)

Requirements for a minor in Mathematics

Lower-division requirements (22)
A minimum of two units chosen from:

CSE 201 Computer Science I 2
MATH 241 Problem Solving in Calculus 4
MATH 211 Basic Concepts of Calculus 4
MATH 212 Calculus II 4
MATH 213 Calculus III 4
MATH 251 Multivariable Calculus I 4
MATH 252 Multivariable Calculus II 4

Upper-division requirements (12)
MATH 331 Linear Algebra 4
MATH 345 Number Theory and Proof 4
MATH 355 Analysis and Proof 4

Four units chosen from upper-division elective course work in mathematics courses applicable to the major.

Total Units 34

Certificate in Introductory Mathematics

Requirements (48 units)

Certificate in Introductory Actuarial Science

Requirements (50 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

Lower-division requirements (30)

ECON 200 Principles of Microeconomics 4
ECON 202 Principles of Macroeconomics 4
MATH 211 Basic Concepts of Calculus 4
MATH 212 Calculus II 4
MATH 213 Calculus III 4
MATH 241 Problem Solving in Calculus 2
MATH 251 Multivariable Calculus I 4
MATH 252 Multivariable Calculus II 4

Total Units 50

Certificate in Introductory Mathematics

Requirements (48 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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.
Holders of a valid California teaching credential who satisfy the following requirements in algebra, geometry, and development of the real number system and who complete at least thirty units of this certificate may apply to the California Commission on Teacher Credentialing for a supplementary authorization in mathematics.

Certificate Requirements

Courses must be completed with a grade of "C" or better.

Component Areas (20)
Select at least one course from each of the following five areas, with no course used to satisfy more than one area:

<table>
<thead>
<tr>
<th>Component Area</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: Algebra</td>
<td>MATH 110</td>
<td>College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td></td>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td></td>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td>A2: Advanced Algebra</td>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td></td>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td></td>
<td>MATH 212</td>
<td>Calculus II</td>
</tr>
<tr>
<td></td>
<td>MATH 272</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>A3: Geometry</td>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td></td>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td></td>
<td>MATH 212</td>
<td>Calculus II</td>
</tr>
<tr>
<td></td>
<td>MATH 229</td>
<td>Geometry in Two and Three Dimensions</td>
</tr>
<tr>
<td>A4: Probability and Statistics</td>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 262</td>
<td>Applied Statistics</td>
</tr>
<tr>
<td></td>
<td>or MATH 165</td>
<td>Introductory Statistics and Hypothesis Testing</td>
</tr>
<tr>
<td>A5: Development of the Real Number System</td>
<td>MATH 192</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td></td>
<td>or MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td></td>
<td>MATH 212</td>
<td>Calculus II</td>
</tr>
<tr>
<td></td>
<td>MATH 301A</td>
<td>Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry</td>
</tr>
<tr>
<td>Electives (28)</td>
<td>MATH 180</td>
<td>Critical Thinking Through Applications of Mathematical Logic</td>
</tr>
<tr>
<td></td>
<td>MATH 199</td>
<td>Technology in Math Education through Problem Solving</td>
</tr>
<tr>
<td></td>
<td>MATH 301B</td>
<td>Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry</td>
</tr>
<tr>
<td></td>
<td>MATH 301C</td>
<td>Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry</td>
</tr>
<tr>
<td></td>
<td>MATH 308</td>
<td>Problem Solving Through Theory and Practice</td>
</tr>
</tbody>
</table>

Total Units 48
Department of Nursing

Department of Nursing
Health and Physical Education, Room 215
(909) 537-5380 Department of Nursing website (http://nursing.csusb.edu)

Bachelor of Science
- Accredited by the Commission on Collegiate Nursing Education (CCNE)
- Nursing
- RN to BSN Bridge Program

Master of Science in Nursing
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.

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.

Current Faculty
Alham Abuatiq, Assistant Professor
B.S.N. 2004, M.S.N. 2006 Jordan University, Jordan
PhD 2013, University of San Diego

Debra Cohen, Lecturer
B.S.N. 2003, M.S.N. 2005, University of Phoenix

Claudia Davis, Associate Professor
Ph.D., University of California, Los Angeles, 2013

Cheryl A. Di Pretoro, Lecturer
B.S. 1975, State University of New York at Buffalo
M.S. 1991, University of California, Los Angeles

Teresa Dodd-Butera, Associate Professor
M.A. 1995, San Diego State University
Ph.D. 2008, Union Institute and University of Ohio

Geraldine Fike, Assistant Professor
B.S.N. 1998, M.S.N. 2002, California State University, Dominguez Hills
D.N.P. 2012, Western University

Susan J. McGee, Assistant Professor
B.S.N. 1971, Ohio State University
M.S.N. 1982, University of California, San Francisco

Phyllis Nix, Lecturer
M.A. 1976, California State University, Los Angeles
M.S. 1963, Loma Linda University
Ph.D. 1998, Pacific Western University, Hawaii

Ora Robinson, Assistant Professor
B.S.N. 1998, M.S.N. 1995, University of Wisconsin
Ph.D. 2006, Capella University

Marilyn Smith-Stoner, Professor
B.S.N. 1989, M.S.M. 1995, California State University, Dominguez Hills
Courses

NURS 200. Foundations of Nursing Process, Roles and Skills. 4 Units.
Prerequisites: sophomore standing, admission to nursing major; BIOL 220, BIOL 223 and BIOL 224; CHEM 205, CHEM 208; completion of G.E. requirements in written communication, critical thinking and mathematics or passing score on the Entry Level Mathematics examination; COMM 120
Corequisites: NURS 201
Introduction to nursing process and nursing role, including basic cognitive, psychomotor, interpersonal, and assessment skills.

NURS 201. Foundations of Nursing Process, Roles and Skills: Laboratory. 3 Units.
Prerequisites: admission to nursing major and consent of department
Corequisites: NURS 200
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.

NURS 204. Beginning Nursing Process, Roles and Skills. 4 Units.
Prerequisites: NURS 200 and consent of department
Corequisites: NURS 205
Theory and application of nursing process and nursing role with middle- and older individuals and families of diverse psychosocial and cultural backgrounds.

NURS 205. Beginning Nursing Process, Roles and Skills: Laboratory. 3 Units.
Prerequisites: consent of department
Corequisites: NURS 204
Clinical experience in settings emphasizing physical and emotional care of middle- and older adults needing a moderate level of care. Materials fee required.

NURS 220. Intermediate Nursing Process, Roles and Skills. 4 Units.
Prerequisites: NURS 204 and consent of department
Corequisites: NURS 221
Principles of assessment and care of acutely ill individuals of various ages and psychosocial and cultural backgrounds. Pathophysiology as basis of nursing assessment and care. Formerly NURS 320.

NURS 221. Intermediate Nursing Process, Roles and Skills: Laboratory. 4 Units.
Prerequisites: consent of department
Corequisites: NURS 220
Application of knowledge and skills from NURS 220. Care of clients in subacute and acute care settings. Materials fee required. Formerly NURS 321.

NURS 305. Secrets of Success. 2 Units.
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.
NURS 310. Transition to Baccalaureate Nursing Education. 2 Units.
Prerequisites: consent of the nursing department, active CA RN license
Concepts related to transitioning from ADN to BSN nursing roles.
Explores learning and technology skills, and competencies required of the professional nurse.

NURS 316. Health Assessment. 4 Units.
Prerequisites: NURS 200 and NURS 201
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.

NURS 322. Advanced Nursing Process, Roles and Skills. 3 Units.
Prerequisites: NURS 400, NURS 401 and consent of department
Corequisites: NURS 323
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.

NURS 323. Advanced Nursing Process, Roles and Skills: Laboratory. 4 Units.
Prerequisites: NURS 400, NURS 401 and consent of department
Corequisites: NURS 322
Application of knowledge and skills from NURS 322. Care of clients in subacute and acute care settings. Materials fee required.

NURS 332. Families and Children. 4 Units.
Prerequisites: NURS 334 and NURS 335 and consent of department
Corequisites: NURS 333
Theory and application of nursing process and nursing role with families from diverse psychosocial and cultural backgrounds and their children. Formerly NURS 330.

NURS 333. Families and Children: Laboratory. 3 Units.
Prerequisites: NURS 334 and NURS 335 and consent of department
Corequisites: NURS 332
Clinical experience in settings emphasizing care of families with children needing a moderate level of care. Materials fee required. Formerly NURS 331.

NURS 334. Maternal Child and Womens Health. 4 Units.
Prerequisites: NURS 220, NURS 221 and consent of department
Corequisites: NURS 335
Theory and application of nursing process and nursing role with childbearing families from diverse psychosocial and cultural backgrounds. Formerly NURS 330.

NURS 335. Maternal Child and Womens Health: Laboratory. 3 Units.
Prerequisites: NURS 220, NURS 221 and consent of department
Corequisites: NURS 334
Clinical experience in settings emphasizing care of childbearing families needing a moderate level of care. Materials fee required. Formerly NURS 331.

NURS 340. Theories of Nursing. 2 Units.
Prerequisites: NURS 332, 333 and consent of department
Introduction to various conceptual models of nursing. Implications of these models for nursing. Formerly NURS 450.

NURS 341A. Professional Writing: Introduction. 2 Units.
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.

NURS 341B. Professional Writing: Project Identification. 2 Units.
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.

NURS 341C. Professional Writing: Study Design. 2 Units.
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.

NURS 341D. Professional Writing: Project Completion. 2 Units.
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.

NURS 343. The Nurse as a Researcher. 4 Units.
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.

NURS 344. The Nurse as a Leader. 4 Units.
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.

NURS 345. The Nurse as an Advocate: Family Concepts. 4 Units.
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.

NURS 346. The Nurse as a Member of the Community. 4 Units.
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.
NURS 347. The Nurse as a Member of the Community: Activity. 4 Units.
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.

NURS 350. Nursing Theories. 4 Units.
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.

NURS 352. The Nurse as a Teacher. 4 Units.
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.

NURS 353. Global Nursing. 4 Units.
International health concerns affecting the delivery of nursing care at home and abroad. Credit will be arranged for nursing projects pertaining to international concerns.

NURS 375. Cooperative Education. 2 Units.
Prerequisites: NURS 200, NURS 201 and departmental approval of a standard application filed in advance of the quarter in which the course is to be taken.
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.

NURS 380. Pathophysiological Concepts as Applied to Nursing Practices. 4 Units.
Prerequisites: BIOL 223, BIOL 224 and consent of department.
Pathophysiological concepts as applied to nursing practice with an emphasis on the body’s response to the disease process.

NURS 382. Pharmacology and Therapeutics for Nursing Practice. 2 Units.
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 healthcare environment. Formerly a topic under NURS 396.

NURS 396. Selected Topics in Nursing. 2 Units.
Prerequisites: consent of department chair prior to registration.
Selected nursing topics with specific focus. May be repeated for credit as topics change.

NURS 399A. Community Service Project. 1 Unit.
Prerequisites: submission of a project proposal and consent of department chair prior to registration.
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.

NURS 399B. Community Service Project. 2 Units.
Prerequisites: submission of a project proposal and consent of department chair prior to registration.
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.

NURS 400. Psych/Mental Health Nursing. 4 Units.
Prerequisites: NURS 332, 333, 334, 335, PSYC 201, and consent of department.
Corequisites: NURS 401
Principles of health promotion and chronic illness care with mentally and physically ill middlescent and older adults with diverse psychosocial and cultural backgrounds via recovery, resilience and wellness philosophy.

NURS 401. Psych/Mental Health Nursing: Activity. 4 Units.
Prerequisites: NURS 332, NURS 333, NURS 334, NURS 335, PSYC 201, and consent of department.
Corequisites: NURS 400
Application of knowledge and skills from NURS 400. Clinical experience in various ambulatory care settings with mentally and physically ill middlescent and older adults via recovery, resilience, and wellness philosophy. Materials fee required.

NURS 404. Leadership in Nursing: Nursing Management. 4 Units.
Prerequisites: NURS 406, NURS 407 and consent of department.
Corequisites: NURS 405
Concepts of leadership in innovative nursing roles. Synthesis of knowledge and skills in critical thinking, communication and therapeutic nursing interventions as a leader and change agent on the interdisciplinary health team.

NURS 405. Leadership in Nursing: Clinical. 4 Units.
Prerequisites: NURS 406, NURS 407 and consent of department.
Corequisites: NURS 404
Clinical experience focusing on innovative nursing roles in various settings. Materials fee required.

NURS 406. Community/Public Health Nursing. 4 Units.
Prerequisites: NURS 322, NURS 323, NURS 400, NURS 401 and consent of department.
Corequisites: NURS 407
Principles of health promotion and chronic illness care with young individuals and families of diverse psychosocial and cultural backgrounds. Formerly NURS 324.
NURS 407. Community/Public Health Nursing: Clinical. 4 Units.
Prerequisites: NURS 322, NURS 323, NURS 400, NURS 401 and consent of department
Corequisites: NURS 406
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.

NURS 410. Transitional Concepts for Professional Nursing. 2 Units.
Prerequisites: NURS 310 and consent of the department. Materials fee required
Corequisites: NURS 411
Socialization and development into professional nursing roles. Exploration of current theories, concepts and health issues for populations with diverse psychosocial and cultural backgrounds.

NURS 411. Transitional Concepts for Professional Nursing: Laboratory. 4 Units.
Prerequisites: Active RN license, professional malpractice insurance and consent of the department
Corequisites: NURS 410
Practice of professional nursing roles with populations of diverse psychosocial and cultural backgrounds.

NURS 422. Nursing Research. 4 Units.
Prerequisites: NURS 340, MATH 305 and consent of department
Introduction to the research process and analysis of studies relevant to nursing.

NURS 425. Issues and Trends in Nursing and Health Care. 2 Units.
Prerequisites: NURS 422 and consent of department

NURS 443. The Nurse as a Counselor. 4 Units.
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.

NURS 444. Nurse as Expert Clinician. 4 Units.
Supports the students 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.

NURS 445. The Nurse as a Change Agent. 4 Units.
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.

NURS 446. Senior Seminar in Dietetic Education. 1 Unit.
Prerequisites: HSCI 225 and senior standing in the Nutrition and Food Science program
Current and future trends in dietetic education, dietetic internship programs, and application processes.

NURS 483. The Nurse as a Lifelong Learner: Advanced Practice Models. 4 Units.
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.

NURS 494. Senior Seminar. 4 Units.
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.

NURS 500. Advanced Topics in Nursing. 4 Units.
Prerequisites: upper-division standing or consent of instructor
Selected advanced nursing topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change.

NURS 502. Advanced Physical/Health Assessment of Children and Adolescents. 4 Units.
Prerequisites: consent of department
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.

NURS 503. Principles of School Nursing Practice. 4 Units.
Prerequisites: consent of department
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.

NURS 504. School Nursing Internship. 4 Units.
Prerequisites: consent of department
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.

NURS 595A. Independent Study. 1 Unit.
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
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.
NURS 595B. Independent Study. 2 Units.
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.
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.

NURS 595C. Independent Study. 3 Units.
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.
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.

NURS 595D. Independent Study. 4 Units.
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.
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.

NURS 595E. Independent Study. 5 Units.
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.
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.

NURS 595F. Independent Study. 6 Units.
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.
Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation.

NURS 600. Population Health Assessment. 6 Units.
Prerequisites: classified graduate standing in MSN program and current RN licensure and consent of the department.
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.

NURS 601. Preparation for MSN Learning with Technology. 1 Unit.
Prerequisites: consent of department.
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.

NURS 610. Program Planning and Evaluation. 6 Units.
Prerequisites: NURS 600, current RN licensure and consent of department.
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.

NURS 620. Health Policy Leadership. 6 Units.
Prerequisites: NURS 610, current RN licensure and consent of department.
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.

NURS 630. Advanced Nursing Roles. 3 Units.
Prerequisites: current RN licensure and consent of department.
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.

NURS 635. Biostatistics for Public/Community Health Nursing. 4 Units.
Prerequisites: consent of department.
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.

NURS 645. Advanced Nursing Research. 4 Units.
Prerequisites: consent of department.
Overview of the research process, the composition of a literature review, ethical issues, research design, and data evaluation. Meta-analysis, odds ratio, and risk ratio methods are applied to practice with populations. Formerly NURS 625.

NURS 646. Epidemiology. 4 Units.
Prerequisites: consent of department.
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.
NURS 654. Transcultural Healthcare. 4 Units.
Prerequisites: consent of department
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.

NURS 655. Advanced Nursing Theory. 4 Units.
Prerequisites: classified standing in the MSN program or consent of department
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.

NURS 656. Management Skills for Advanced Public/Community Health Nursing. 4 Units.
Prerequisites: consent of department
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.

NURS 657. Nursing Case Management. 4 Units.
Prerequisites: consent of department
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.

NURS 658. Nursing Education: Curriculum and Instruction. 4 Units.
Prerequisites: consent of department
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.

NURS 659. Assessment and Evaluation in Nursing Education. 4 Units.
Prerequisites: NURS 658 and consent of department
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.

NURS 660. Instructional Technology in Nursing Education. 4 Units.
Prerequisites: NURS 658 and consent of department
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.

NURS 661. Advanced Public/Community Health Internship I. 3 Units.
Prerequisites: NURS 600, NURS 610, and NURS 630, consent of the department, and current RN licensure
Clinical application of advanced community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit.

NURS 662. Advanced Public/Community Health Internship II. 3 Units.
Prerequisites: NURS 600, NURS 610 and NURS 630, consent of department and current RN licensure. Formerly NURS 680
Clinical application of advanced community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit.

NURS 668. Advanced Role Practicum. 2 Units.
Prerequisites: NURS 600, NURS 610, and NURS 630 and consent of department. May be taken concurrently with NURS 620
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.

NURS 690. Preparation for Comprehensive Examination. 2 Units.
Prerequisites: advancement to candidacy
Corequisites: NURS 999
Independent study conducted under the direction of a faculty member to prepare for comprehensive examinations in the Master of Science in Nursing.

NURS 697. Clinical Project in Nursing. 6 Units.
Prerequisites: advancement to candidacy and NURS 645
Independent clinical project conducted under the direction of a faculty member.

NURS 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
NURS 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 699. Thesis Research in Nursing. 6 Units.
Prerequisites: advancement to candidacy and NURS 625
Independent graduate research conducted under the direction of a major program faculty advisor.
NURS 999. Comprehensive Examination. 0 Units.
Prerequisites: consent of department
An integrative, written examination covering course work required for the major. The comprehensive exam committee for each candidate will consist of the students 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.

Bachelor of Science 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 (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 220</td>
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<tr>
<td>BIOL 223</td>
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<tr>
<td>BIOL 224</td>
<td>5</td>
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<tr>
<td>CHEM 205</td>
<td>5</td>
</tr>
<tr>
<td>COMM 120</td>
<td>4</td>
</tr>
<tr>
<td>MATH 165</td>
<td>4</td>
</tr>
</tbody>
</table>

One critical thinking course that satisfies category A4 in the General Education Program.

Freshman Composition (G.E.). Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 104A</td>
<td>4</td>
</tr>
<tr>
<td>ENG 104B</td>
<td>4</td>
</tr>
<tr>
<td>ENG 106A</td>
<td>4</td>
</tr>
<tr>
<td>ENG 106B</td>
<td>4</td>
</tr>
</tbody>
</table>

Support courses required which may be taken after admission to the nursing major (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>4</td>
</tr>
</tbody>
</table>

One integrative capstone course that meets the multicultural/gender requirement in the general education program

Lower-division requirements (22)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>NURS 200</td>
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</tr>
<tr>
<td>NURS 201</td>
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<tr>
<td>NURS 204</td>
<td>4</td>
</tr>
<tr>
<td>NURS 205</td>
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<td>NURS 220</td>
<td>4</td>
</tr>
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<td>NURS 221</td>
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</tbody>
</table>

Upper-division requirements (61)

<table>
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<th>Units</th>
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<tbody>
<tr>
<td>NURS 316</td>
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<tr>
<td>NURS 322</td>
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<tr>
<td>NURS 323</td>
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<td>NURS 332</td>
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<td>NURS 334</td>
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<tr>
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<td>NURS 380</td>
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</table>
Bachelor of Science 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.

First Quarter

<table>
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<th>Course</th>
<th>Units</th>
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<td>NURS 341A</td>
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Second Quarter

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<tr>
<th>Course</th>
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<td>NURS 341B</td>
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Third Quarter

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<th>Course</th>
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<td>NURS 341C</td>
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Fourth Quarter

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<th>Course</th>
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<td>NURS 345</td>
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Fifth Quarter

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<th>Course</th>
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Sixth Quarter

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<tbody>
<tr>
<td>NURS 494</td>
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</tbody>
</table>

Expository Writing for the Natural Sciences

The Nurse as a Researcher

The Nurse as a Leader

The Nurse as an Advocate: Family Concepts

The Nurse as a Teacher

Must choose one course from the General Education Capstone categories of B4, C5, or D5

Professional Writing: Project Identification

The Nurse as a Member of the Community

The Nurse as a Member of the Community: Activity

Global Nursing

Elective

Professional Writing: Study Design

The Nurse as a Counselor

Nurse as Expert Clinician

Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously

Professional Writing: Project Completion

The Nurse as a Change Agent

Cooperative Education

Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously

Senior Seminar
Interview. Basic Educational Skills Test). Application for the STAH requires an Exit (practice) teaching experience and passing of the CBEST (California Board of Education). The program provides a supervised student teaching experience and regular health instruction. Requirements for the STAH are completion of 14 units of educational pedagogy including a supervised student teaching experience and regular health instruction. It authorizes nurses to provide health education instruction beyond that of their current role as nurses in the community who are already credentialed. The STAH is required for the credential and is available to master’s students as well. The STAH is not limited to school nurses who wish to position themselves to become faculty of public schools. The Special Teaching Authorization in Health (STAH) option is available to students enrolled in the program. 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 and NURS 690.

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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 600</td>
<td>Population Health Assessment</td>
<td>6</td>
</tr>
<tr>
<td>NURS 610</td>
<td>Program Planning and Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Health Policy Leadership</td>
<td>6</td>
</tr>
<tr>
<td>NURS 630</td>
<td>Advanced Nursing Roles</td>
<td>3</td>
</tr>
<tr>
<td>NURS 635</td>
<td>Biostatistics for Public/Community Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 645</td>
<td>Advanced Nursing Research</td>
<td>4</td>
</tr>
<tr>
<td>NURS 655</td>
<td>Advanced Nursing Theory</td>
<td>4</td>
</tr>
<tr>
<td>NURS 688</td>
<td>Advanced Role Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 646</td>
<td>Epidemiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Concentrations (6-24)**

Choose one of the following concentrations: 6-24

**Total Units** 45-63

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**Academic Nursing Education (14-18 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 658</td>
<td>Nursing Education: Curriculum and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>NURS 659</td>
<td>Assessment and Evaluation in Nursing Education</td>
<td>4</td>
</tr>
<tr>
<td>NURS 660</td>
<td>Instructional Technology in Nursing Education</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following culminating sequences: 2-6

**Clinical Project:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 697</td>
<td>Clinical Project in Nursing</td>
<td></td>
</tr>
<tr>
<td>NURS 699</td>
<td>Thesis Research in Nursing</td>
<td></td>
</tr>
</tbody>
</table>

**Comprehensive Examination:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 690</td>
<td>Preparation for Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>NURS 999</td>
<td>Comprehensive Examination</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 14-18

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**Advanced Community/Public Health Nursing (20-24 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 681</td>
<td>Advanced Public/Community Health Internship I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 682</td>
<td>Advanced Public/Community Health Internship II</td>
<td>3</td>
</tr>
</tbody>
</table>

Twelve units of 500 or 600 level courses chosen in consultation with the graduate advisor and approved by the MSN coordinator.

One of the following culminating sequences: 2-6

**Clinical Project:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 697</td>
<td>Clinical Project in Nursing</td>
<td></td>
</tr>
<tr>
<td>NURS 699</td>
<td>Thesis Research in Nursing</td>
<td></td>
</tr>
</tbody>
</table>

**Comprehensive Examination:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 690</td>
<td>Preparation for Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>NURS 999</td>
<td>Comprehensive Examination</td>
<td></td>
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</tbody>
</table>

**Total Units** 20-24

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**Population-Based Nursing (6 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 690</td>
<td>Preparation for Comprehensive Examination</td>
<td>2</td>
</tr>
<tr>
<td>NURS 999</td>
<td>Comprehensive Examination</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units of 500- or 600-level Nursing elective chosen in consultation with the graduate advisor and approved by the MSN program coordinator.

**Total Units** 6

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**School Nursing (18-22 units)**

Includes 47 units of the School Nurse Credential

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 502</td>
<td>Advanced Physical/Health Assessment of Children and Adolescents</td>
<td>4</td>
</tr>
<tr>
<td>NURS 503</td>
<td>Principles of School Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 658</td>
<td>Nursing Education: Curriculum and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>ESPE 530</td>
<td>Introduction to Special Education</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following culminating sequences: 2-6

**Clinical Project:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 697</td>
<td>Clinical Project in Nursing</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**
NURS 699  Thesis Research in Nursing

Comprehensive Examination:
NURS 690  Preparation for Comprehensive Examination
NURS 999  Comprehensive Examination

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 659</td>
<td>Assessment and Evaluation in Nursing Education</td>
<td>4</td>
</tr>
<tr>
<td>NURS 660</td>
<td>Instructional Technology in Nursing Education</td>
<td>4</td>
</tr>
<tr>
<td>NURS 681</td>
<td>Advanced Public/Community Health Internship I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 682</td>
<td>Advanced Public/Community Health Internship II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 18-22

**Special Teaching Authorization in Health (STAH) (14)**

Students in any MSN concentration are eligible to complete the Clinical Nurse Specialist.
Department of Physics

Department of Physics

Physical Sciences Building, Room 119
(909) 537-5937 Department of Physics (http://physics.csusb.edu)

Bachelor of Arts

Physics

Bachelor of Science

• Physics
• Applied Physics

Minor

• Physics
• Applied Physics

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
</tbody>
</table>

MATH 211 Basic Concepts of Calculus 4
MATH 212 Calculus II 4
MATH 213 Calculus III 4
MATH 251 Multivariable Calculus I 4
MATH 252 Multivariable Calculus II 4
PHYS 221 General Physics I 5
PHYS 222 General Physics II 5
PHYS 223 General Physics III 5

Selected courses in computer science and general education

Students considering a physics or pre-engineering major should call the department office for advising.

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.

Current Faculty

Paul K. Dixon, Professor, Chair
B.S. 1983, University of Michigan
M.A. 1985, Ph.D. 1990, University of Chicago

Carol Hood, Assistant Professor
Ph.D., University of California, Irvine, 2011

Karen Kolehmainen, Professor
B.S. 1977, Michigan State University
Ph.D. 1983, State University of New York at Stony Brook

Paul A. Renteln, Professor
B.A. 1981, University of California, Berkeley
Ph.D. 1988, Harvard University

Javier Torner, Professor, Director
B.S. 1978, J.P.M. Mexico
M.S. 1972, Ph.D. 1985, Illinois Institute of Technology

Timothy D. Usher, Professor
B.S. 1981, Appalachian State University
Ph.D. 1990, University of South Carolina

Laura M. Woodney, Associate Professor
B.A. 1993, John Hopkins University
M.S. 1997, Ph.D. 2000, University of Maryland

Emeritus

Leo P. Connolly, Professor
Undergraduate Degrees

Bachelor of Arts

- Physics (p. 687)

Bachelor of Science

- Physics (p. 687)
- Applied Physics (p. 688)

Minors

- Physics (p. 688)
- Applied Physics (p. 688)

Astronomy Courses

ASTR 103. Descriptive Astronomy. 5 Units.
(GE=B3)
A brief history of the development of astronomy followed by modern
descriptions of our planetary system, stars, galaxies, models of the
universe and the possibilities of life in the universe. Discussions of
methods of extending knowledge of the universe. No previous background
in natural sciences is required. Four hours lecture and three hours
laboratory. Materials fee required. Formerly PHYS 103.

ASTR 311. A Cosmic Perspective of Earth. 5 Units.
Prerequisites: CHEM 100 and PHYS 100
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.

Physics Courses

PHYS 100. Physics in the Modern World. 5 Units.
Prerequisites: completion of the general education requirement in
mathematics, category B1
(GE=B3)
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.

PHYS 121. Basic Concepts of Physics I. 5 Units.
Prerequisites: MATH 192 or 211, with a grade of C- or better
(GE=B3)
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.

PHYS 122. Basic Concepts of Physics II. 4 Units.
Prerequisites: PHYS 121
Continuation of PHYS 121. Topics include electricity, electric circuits and
magnetism. Three hours lecture and three hours laboratory. Materials fee
required.

PHYS 123. Basic Concepts of Physics III. 4 Units.
Prerequisites: PHYS 122
Continuation of PHYS 122. Topics include optics, waves and modern
physics. Three hours lecture and three hours laboratory. Materials fee
required.

PHYS 150. Introductory Electronics. 5 Units.
Prerequisites: a knowledge of trigonometry and exponential functions
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.

PHYS 221. General Physics I. 5 Units.
Prerequisites: MATH 211
Prerequisite/Corequisite: MATH 212
(GE=B3)
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.

PHYS 222. General Physics II. 5 Units.
Prerequisites: PHYS 221 and MATH 212. Recommended: MATH 213
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.

PHYS 223. General Physics III. 5 Units.
Prerequisites: PHYS 222
Third course of a five-course sequence in introductory physics for
scientists and engineers. Waves and optics. Four hours lecture and three
hours laboratory. Materials fee required.

PHYS 224. General Physics IV. 3 Units.
Prerequisite/Corequisite: PHYS 223 or consent of instructor
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.
PHYS 225. General Physics V. 3 Units.
Prerequisites: PHYS 224 or consent of instructor
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.

PHYS 295A. Special Projects in Physics. 1 Unit.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected problems. May be repeated for credit.

PHYS 295B. Special Projects in Physics. 2 Units.
Prerequisites: consent of instructor
Individual investigation, research, study or survey of selected problems. May be repeated for credit.

PHYS 303. Astronomy for Educators. 3 Units.
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.

PHYS 304. Physics in the Classroom. 2 Units.
Prerequisites: one college level course in chemistry or earth science
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.

PHYS 305. Demonstration Laboratory in Physics. 1 Unit.
Prerequisite/Corequisite: PHYS 304
A demonstration laboratory exploring the basic principles of physics through individual student demonstration. Three hours laboratory. Materials fee required.

PHYS 306. Classical Mechanics I. 4 Units.
Prerequisites: PHYS 225 and one of the following: MATH 373, PHYS 373 with a grade of C or better in each course
A continuing study of dynamics with an introduction to advanced formulations. Four hours lecture.

PHYS 307. Classical Mechanics II. 4 Units.
Prerequisites: PHYS 306 with a grade of "C" or better
A continuation of PHYS 306 with emphasis in Lagrangian and Hamiltonian formulation in classical mechanics. Four hours lecture. Formerly PHYS 406.

PHYS 313. Electrodynamics I. 4 Units.
Prerequisites: PHYS 225 and 373 with a grade of "C" or better in each course
Derivation and applications of Maxwell's equations. Four hours lecture.

PHYS 314. Electrodynamics II. 4 Units.
Prerequisites: PHYS 313 with a grade of "C" or better
A continuation of PHYS 313 with advanced applications of Maxwell's equations and electromagnetic waves. Four hours lecture. Formerly PHYS 414.

PHYS 315. Introduction to Modern Optics. 4 Units.
Prerequisites: PHYS 313 with a grade of "C" or better
An introduction to geometrical optics, physical optics and lasers. Four hours lecture.

PHYS 318. Materials Science and Engineering. 4 Units.
Prerequisites: CHEM 215, PHYS 224 and PHYS 373
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.

PHYS 324. Statistical and Thermal Physics. 4 Units.
Prerequisites: MATH 252 and PHYS 225 with a grade of "C" or better in each course
Basics of equilibrium thermodynamics including statistical description of physical systems, entropy and temperature, classical and quantum statistical ensembles, thermodynamics, and selected applications. Four hours lecture. Formerly PHYS 424.

PHYS 350. Data Acquisition and Control. 4 Units.
Prerequisites: CSE 201, PHYS 150 and PHYS 222
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.

PHYS 352. Advanced Electronics. 4 Units.
Prerequisites: PHYS 350 and PHYS 373 with a grade of "C" or better in each course
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.

PHYS 370. Introduction to Astrophysics. 4 Units.
Prerequisites: PHYS 225 and 373 with a grade of "C" or better in each course
Basic principles of stellar structure and evolution, galactic structure, extragalactic astronomy and cosmology. Four hours lecture.

PHYS 373. Mathematical Methods of Physics I. 4 Units.
Prerequisites: PHYS 222 and MATH 252. MATH 331 is recommended
Vector calculus, Fourier analysis, and ordinary differential equations. Emphasis on techniques applicable to the problems of physics.

PHYS 398. Junior Assessment. 1 Unit.
Prerequisites: PHYS 306 and PHYS 313 with a grade of "C" or better
Students will review the foundational subjects in physics (primarily classical mechanics, electrodynamics, thermodynamics, and statistical mechanics, special relativity, and quantum mechanics) at the intermediate level and apply that knowledge to problem-solving.
PHYS 421. Quantum Mechanics I. 4 Units.
- Prerequisites: MATH 331, PHYS 225 and PHYS 306 with a grade of "C" or better in each course.
- 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.

PHYS 422. Quantum Mechanics II. 4 Units.
- Prerequisites: PHYS 306, PHYS 314, and PHYS 421 with a grade of "C" or better in each course.
- 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 Schrödinger equation in three dimensions, approximation methods, and scattering.

PHYS 430. Advanced Physics Laboratory. 4 Units.
- Prerequisites: PHYS 313 with a grade of "C" or better. Recommended: PHYS 421.
- 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.

PHYS 450. Solid State Physics. 4 Units.
- Prerequisites: PHYS 318, 421, and 473 with grades of "C" or better.
- A lecture course exploring selected topics in condensed matter physics. May be repeated for credit as topics change. Four hours lecture.

PHYS 461. Introduction to Nuclear Physics. 4 Units.
- Prerequisites: PHYS 306 and 422 with a grade of "C" or better in each course.
- 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.

PHYS 463. Introduction to Elementary Particle Physics. 4 Units.
- Prerequisites: PHYS 306 and 422 with a grade of "C" or better in each course.
- A survey of elementary particle physics, including accelerators, relativistic kinematics, conservation laws, quarks, the standard model, and quantum field theories. Four hours lecture.

PHYS 473. Mathematical Methods of Physics II. 4 Units.
- Prerequisites: PHYS 373. MATH 331 and PHYS 225 are strongly recommended.
- A continuation of MATH/PHYS 373. Topics covered include functions of a complex variable and partial differential equations.

PHYS 480A. Topics in Classical Physics: Mechanics. 4 Units.
- Prerequisites: PHYS 307 with a grade of "C" or better.
- Further treatment of topics in physics introduced in previous courses.

PHYS 480B. Topics in Classical Physics: Electrodynamics. 4 Units.
- Prerequisites: PHYS 314 with a grade of "C" or better.
- Further treatment of topics in physics introduced in previous courses.

PHYS 485A. Topics in Contemporary Physics. 1 Unit.
- A lecture course on a current topic or on new developments in physics. May be repeated for credit as topics change.

PHYS 485B. Topics in Contemporary Physics. 2 Units.
- A lecture course on a current topic or on new developments in physics. May be repeated for credit as topics change.

PHYS 573. Mathematical Methods of Physics III. 4 Units.
- Prerequisites: MATH 331, and MATH 473 or PHYS 473.
- A continuation of MATH/PHYS 473 with emphasis on advanced topics relevant to physics.

PHYS 585A. Independent Study. 1 Unit.
- Prerequisites: senior standing and consent of department.
- 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.

PHYS 585B. Independent Study. 2 Units.
- Prerequisites: consent of instructor and department.
- 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.

PHYS 585C. Independent Study. 3 Units.
- Prerequisites: consent of instructor and department.
- 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.

PHYS 585D. Independent Study. 4 Units.
- Prerequisites: consent of instructor and department.
- 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.

PHYS 585E. Independent Study. 6 Units.
- Prerequisites: consent of instructor and department.
- 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.
PHYS 595D. Independent Study. 4 Units.
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.
Research in physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

PHYS 595E. Independent Study. 5 Units.
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.
Research in physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

PHYS 595F. Independent Study. 6 Units.
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.
Research in physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

PHYS 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing.
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts in Physics

Requirements (89 units)
Total units required for graduation: 180

Requirements for the B.A. in Physics

<table>
<thead>
<tr>
<th>Lower-division requirements (53)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215 General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216 General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>MATH 211 Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251 Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252 Multivariable Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221 General Physics I</td>
<td>5</td>
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<tr>
<td>PHYS 222 General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223 General Physics III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 224 General Physics IV</td>
<td>3</td>
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<tr>
<td>PHYS 225 General Physics V</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Upper-division requirements (29)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 331 Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 306 Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 313 Electrodynamics I</td>
<td>4</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Electives (7)</th>
<th></th>
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<tbody>
<tr>
<td>Seven units chosen from upper-division physics courses selected with the approval of the department:</td>
<td>7</td>
</tr>
<tr>
<td>PHYS 307 Classical Mechanics II</td>
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<tr>
<td>PHYS 314 Electrodynamics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 315 Introduction to Modern Optics</td>
<td></td>
</tr>
<tr>
<td>PHYS 318 Materials Science and Engineering</td>
<td></td>
</tr>
<tr>
<td>PHYS 370 Introduction to Astrophysics</td>
<td></td>
</tr>
<tr>
<td>PHYS 422 Quantum Mechanics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 450 Solid State Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 461 Introduction to Nuclear Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 463 Introduction to Elementary Particle Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 473 Mathematical Methods of Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 480A Topics in Classical Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 480B Topics in Classical Physics: Electrodynamics</td>
<td></td>
</tr>
<tr>
<td>PHYS 485A-D Topics in Contemporary Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 573 Mathematical Methods of Physics III</td>
<td></td>
</tr>
<tr>
<td>PHYS 590 Physics Seminar</td>
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</tr>
<tr>
<td>PHYS 595A-E Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 89

Bachelor of Science in Physics

Requirements (107 units)
Total units required for graduation: 180

Requirements for the B.S. in Physics

<table>
<thead>
<tr>
<th>Lower-division requirements (53)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215 General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216 General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>MATH 211 Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251 Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252 Multivariable Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221 General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222 General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223 General Physics III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 224 General Physics IV</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 225 General Physics V</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper-division requirements (45)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 331 Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 306 Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 307 Classical Mechanics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 313 Electrodynamics I</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>PHYS 314</td>
<td>Electrodynamics II</td>
</tr>
<tr>
<td>PHYS 324</td>
<td>Statistical and Thermal Physics</td>
</tr>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
</tr>
<tr>
<td>PHYS 398</td>
<td>Junior Assessment</td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Quantum Mechanics I</td>
</tr>
<tr>
<td>PHYS 422</td>
<td>Quantum Mechanics II</td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Advanced Physics Laboratory</td>
</tr>
<tr>
<td>PHYS 473</td>
<td>Mathematical Methods of Physics II</td>
</tr>
</tbody>
</table>

**Electives (9)**

Five or more units chosen from upper-division physics courses selected with the approval of the department:

- PHYS 315 Introduction to Modern Optics
- PHYS 318 Materials Science and Engineering
- PHYS 370 Introduction to Astrophysics
- PHYS 450 Solid State Physics
- PHYS 461 Introduction to Nuclear Physics
- PHYS 463 Introduction to Elementary Particle Physics
- PHYS 480A Topics in Classical Physics: Mechanics
- PHYS 480B Topics in Classical Physics: Electrodynamics
- PHYS 485A-D Topics in Contemporary Physics
- PHYS 573 Mathematical Methods of Physics III
- PHYS 590 Physics Seminar
- PHYS 595A-E Independent Study

Four units of computer science course work at the 200-level or above selected with the approval of the Physics Department.

Total Units: 107

### Bachelor of Science in Physics - Applied Physics

**Requirements (107 units)**

Total units required for graduation: 180

**Requirements for the B.S. in Physics - Applied Physics Option**

**Lower-division requirements (62)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
</tr>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Multivariable Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 150</td>
<td>Introductory Electronics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
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<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 224</td>
<td>General Physics IV</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 225</td>
<td>General Physics V</td>
<td>3</td>
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</table>

**Upper-division requirements (45)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 306</td>
<td>Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 313</td>
<td>Electrodynamics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 314</td>
<td>Electrodynamics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 318</td>
<td>Materials Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 324</td>
<td>Statistical and Thermal Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Data Acquisition and Control</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 352</td>
<td>Advanced Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 398</td>
<td>Junior Assessment</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Quantum Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Advanced Physics Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 107

**Minor in Applied Physics**

**Requirements (54 units)**

**Requirements for a minor in Applied Physics**

**Lower-division requirements (42)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 150</td>
<td>Introductory Electronics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
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<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
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<tr>
<td>PHYS 224</td>
<td>General Physics IV</td>
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<tr>
<td>PHYS 225</td>
<td>General Physics V</td>
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**Upper-division requirements (12)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 350</td>
<td>Data Acquisition and Control</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 352</td>
<td>Advanced Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 54

*Note: The MATH 252 prerequisite for PHYS 373 will be waived for the applied physics minor.

### Minor in Physics

**Requirements (61 units)**

**Requirements for a minor in Physics**

**Lower-division requirements (41)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
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<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
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<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
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<td>MATH 252</td>
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Total Units: 54
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
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<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
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<tr>
<td>PHYS 224</td>
<td>General Physics IV</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 225</td>
<td>General Physics V</td>
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</tr>
<tr>
<td></td>
<td><strong>Upper-division requirements (20)</strong></td>
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<tr>
<td>PHYS 306</td>
<td>Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 313</td>
<td>Electrodynamics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 324</td>
<td>Statistical and Thermal Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Quantum Mechanics I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units** 61
School of Computer Science and Engineering

Accredited by ABET (B.S. in Computer Science)

School of Computer Science and Engineering

Jack Brown Hall, Room 307
(909) 537-5326 Computer Science and Engineering website (http://cse.csusb.edu)

Bachelor of Arts
- Computer Systems
- With options in:
  - General Interdisciplinary
  - Game Development
  - Graphics Programming
  - Web Programming
  - System Administration

Bachelor of Science
- Bioinformatics
- Computer Engineering
- Computer Science

Minor
Computer Science

Certificate Program
Computer Systems and Programming

Master of Science
- Computer Science

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, 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.

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 (p. 14).

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.
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.

Current Faculty

Arturo I. Concepcion, Professor
B.S. 1969, University of Santo Tomas, Manila
M.S. 1981, Washington State University
Ph.D. 1984, Wayne State University, Detroit

George M. Georgiou, Professor
B.S.E.E. 1985, Louisiana Tech University
M.S.E.E 1987, M.S. 1988, Louisiana State University
M.S. 1990, Ph.D. 1992, Tulane University

Ernesto Gomez, Associate Professor
B.A. 1969, Cornell University
M.S. 1975, Universidad de Puerto Rico
Ph.D. 2005, University of Chicago

Yasha Karant, Professor
B.A. 1975, Immaculate Heart/Cal Tech
Ph.D. 1981, University of California, Berkeley

Josephine G. Mendoza, Professor
B.S. 1974, M.Eng. 1977, University of the Philippines
Ph.D. 1984, University of Illinois

Owen J. Murphy, Professor
B.A. 1979, Holy Cross
M.S. 1982, Worcester Polytechnic Institute
Ph.D. 1985, Syracuse University

Haiyan Qiao, Associate Professor
B.S. 1993, Huanzhong University, China
M.S. 2002, North Dakota State University
Ph.D. 2007, University of Arizona

David A. Turner, Professor
B.S. 1980, Wichita State University
M.S. 1983, University of Massachusetts
Ph.D. 2001, Institute Eurecom, Sophia Antipolis, France

Kerstin Voigt, Professor, Director

Vordiplom 1981, Johann-Wolfgang-Geotehe University of Frankfurt, Germany
M.S. 1984, Ph.D. 1994, Rutgers University

Tong L. Yu, Professor
B.S. 1977, Chinese University of Hong Kong
M.S.E. 1982, Ph.D. 1986, Johns Hopkins University

Kay Zemoudeh, Professor
B.S. 1981, M.S. 1984, University of Southwestern Louisiana
Ph.D. 1990, University of South Carolina

Emeriti

Richard J. Botting, Professor
Dennis Ikenberry, Professor

Undergraduate Degrees

Bachelor of Arts

- Computer Systems (p. 699) with options in:
  - General Interdisciplinary
  - Game Development
  - Graphics Programming
  - Web Programming
  - System Administration

Bachelor of Science

- Bioinformatics (p. 584)
- Computer Engineering (p. 700)
- Computer Science (p. 700)

Graduate Degree

- Master of Science in Computer Science (p. 701)

Minor

- Computer Science (p. 703)

Certificate Program

- Computer Systems and Programming (p. 703)

Courses

CSE 122. Bioinformatics. 2 Units.
(GE=B4)
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.
CSE 125. Programming in Visual Basic. 4 Units.
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.

CSE 129. Science, Computing and Society. 2 Units.
(GE=B4)
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.

CSE 140. Introduction to Game Design. 2 Units.
Elements of games, including theme, gameplay 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, gameplay 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.

CSE 141. Introduction to Game Level Editing. 2 Units.
Basic concepts on level editing of games and how a game is fine-tuned and balanced to improve gameplay 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.

CSE 201. Computer Science I. 4 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience, or CSE 125
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.

CSE 202. Computer Science II. 4 Units.
Prerequisites: CSE 201 and satisfactory score on the Entry Level Mathematics examination
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.

CSE 208. Introduction to Computer Engineering Design. 2 Units.
Prerequisites: Consent of Instructor
(GE=B4)
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 406, CSE 152 and PHYS 152.

CSE 292. JAVA Programming. 4 Units.
Prerequisites: prior course in computer programming
Study of object oriented programming and techniques using JAVA programming language.

CSE 303. Computer Engineering Design. 1 Unit.
Prerequisites: CSE 208
Guided engineering design activity on an ongoing real world problem. Three hours activity. Must be repeated for a total of seven units.

CSE 308. Computer Engineering Design. 3 Units.
Prerequisites: CSE 208
Guided engineering design activity on an ongoing real world problem. Two hours lecture and three hours laboratory. Formerly CSE 407 and CSE 303.

CSE 310. Digital Logic. 5 Units.
Prerequisites: CSE 202 and MATH 272
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.

CSE 311. Advanced Digital Design. 4 Units.
Prerequisites: CSE 310
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.

CSE 313. Machine Organization. 4 Units.
Prerequisites: CSE 202
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.

CSE 320. Programming Languages. 4 Units.
Prerequisites: CSE 202
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.

CSE 322. Web Page Programming. 4 Units.
Prerequisites: CSE 202 or consent of instructor
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.

CSE 330. Data Structures. 4 Units.
Prerequisites: CSE 202 and MATH 272 or MATH 372
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.
CSE 360. Script Programming. 4 Units.
Prerequisites: CSE 201
Getting started; terminal types; e-mail; command line and GUI interfaces; advanced editing; macros; text processing and programmers tools. Two hours lecture and four hours activity laboratory. Materials fee required.

CSE 365. Systems Administration. 4 Units.
Prerequisites: CSE 201
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.

CSE 366. Systems Networking. 4 Units.
Prerequisites: CSE 365
Planning and configuring networks; file transfer; network file servers; bridges and routers. Three hours lecture and two hours activity laboratory. Materials fee required.

CSE 401. Contemporary Computer Architecture. 5 Units.
Prerequisites: CSE 310 and CSE 313
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.

CSE 403. Circuit Design and Analysis. 4 Units.
Prerequisites: CSE 310, MATH 251, and PHYS 150
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. Two hours lecture and three hours activity laboratory. Materials fee required.

CSE 405. Server Programming. 4 Units.
Prerequisites: CSE 322
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.

CSE 408. Sustainable Engineering Design. 4 Units.
Prerequisites: CSE 308 (GE-B5)
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.

CSE 420. Computer Graphics. 4 Units.
Prerequisites: CSE 330
Survey of computer graphics hardware. Topics include animation, two-dimensional and three-dimensional transformation, hidden surface removal algorithm, business charts and applications.

CSE 431. Algorithm Analysis. 4 Units.
Prerequisites: CSE 330 and MATH 372
Analysis and design of algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems. Formerly CSCI 331.

CSE 440. Game Design. 4 Units.
Prerequisites: CSE 330
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.

CSE 441. Game Programming. 4 Units.
Prerequisites: CSCI 420
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.

CSE 455. Software Engineering. 4 Units.
Prerequisites: CSCI 330
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.

CSE 460. Operating Systems. 4 Units.
Prerequisites: CSCI 313 and CSCI 330
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.

CSE 461. Advanced Operating Systems. 4 Units.
Prerequisites: CSE 460
File systems, I/O systems, security distributed systems. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSE 350, students may not receive credit for both.

CSE 482. Senior Interdisciplinary Project. 4 Units.
Prerequisites: CSE 375 and consent of the department
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.

CSE 488. Ethics and the Computing Professional. 2 Units.
Prerequisites: senior standing
Professionalism, ethics, legal issues and the social impact and role of computer technology.

CSE 489. Senior Seminar. 2 Units.
Prerequisites: completion of all required 300-level computer science courses for the B.S. in Computer Science degree
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.
CSE 500. Introduction to Formal Languages and Automata. 4 Units.
Prerequisites: CSE 431 or consent of instructor
Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, pushdown automata, closure properties.

CSE 501. Introduction to Theory of Computation. 4 Units.
Prerequisites: CSE 500 or consent of instructor
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 CSCI 546.

CSE 510. Advanced Computer Architecture. 4 Units.
Prerequisites: CSE 401
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.

CSE 511. Expert Systems. 4 Units.
Prerequisites: CSCI 330
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. (4 units)

CSE 512. Introduction to Artificial Intelligence. 4 Units.
Prerequisites: CSE 330
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.

CSE 513. Advanced Artificial Intelligence. 4 Units.
Prerequisites: CSCI 512 or consent of instructor
Advanced issues and techniques in artificial intelligence; intelligent agents for problem solving, reasoning and learning; advanced artificial intelligence programming in LISP. Three hours lecture and two hours activity laboratory. Materials fee required.

CSE 515. Automated Reasoning. 4 Units.
Prerequisites: CSCI 431
Study of deduction algorithms for expert systems and the limitations thereof, propositional calculus, quantification theory, completeness and incompleteness theorems, Herbrand-Gödel computability, resolution principle, equality and inequality relations.

CSE 516. Machine Learning. 4 Units.
Prerequisites: CSE 330
Theory and practice of machine learning techniques, including supervised learning, unsupervised learning, reinforcement learning, and learning in multi-agent systems. Three hours lecture and two hours activity laboratory. Formerly a topic under CSE 594, students may not receive credit for both CSE 516 and CSE 594 for those terms in which Machine Learning was the topic. Materials fee required.

CSE 520. Advanced Computer Graphics. 4 Units.
Prerequisites: CSCI 420
Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing.

CSE 521. Field Programmable Gate Array Design. 4 Units.
Prerequisites: CSCI 401
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.

CSE 524. Supercomputing and Visualization. 4 Units.
Prerequisites: CSE 330 or consent of instructor
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.

CSE 525. Parallel Algorithms and Programming. 4 Units.
Prerequisites: CSCI 401
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.

CSE 530. Data Communications and Networks. 4 Units.
Prerequisites: CSE 313 or 598, and 330
Topics include baseband and broadband signals and modulation schemes. Error detecting and correcting codes, ISO protocol standard, packet switching and various local network schemes. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSE 430.

CSE 531. High Performance Networks. 4 Units.
Prerequisites: CSE 530 or consent of instructor
High performance network methodologies. Methods to develop network performance measures and models. Introduction to path cost estimation and service reliability issues. Three hours lecture and two hours laboratory. Materials fee required.

CSE 535. Numerical Computation. 4 Units.
Prerequisites: senior standing or consent of instructor
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.

CSE 541. Robotics and Control. 4 Units.
Prerequisites: CSE 310 and CSE 313
Theory and practice of robotic modeling, control, programming, and construction. Three hours lecture and three hours laboratory. Materials fee required.
CSE 550. Advanced Bioinformatics I: Sequence Analysis. 4 Units.
Prerequisites: CSE 341 and senior standing or consent of instructor.
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.

CSE 551. Advanced Bioinformatics II: Numerical Modeling. 4 Units.
Prerequisites: CSE 535
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.

CSE 555. Software Design and Architecture. 4 Units.
Prerequisites: CSE 330
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.

CSE 557. Computer Systems in Organizations. 4 Units.
Prerequisites: CSE 330, MATH 262, or consent of instructor.
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.

CSE 558. Requirements Analysis and Design. 4 Units.
Prerequisites: CSE 330 or consent of instructor.
Requirements analysis, including organizational objectives, functions, use cases, and domain models. The use of objects, patterns, objects and layers in architectural design specifications. Includes analysis, design and implementation of a software system using an agile software process. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSE 375. Students may not receive credit for both. Students may also not receive credit for both CSE 558 and CSE 455.

CSE 565. Systems Programming. 4 Units.
Prerequisites: CSE 460
Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Formerly CSE 465.

CSE 570. Compilers. 4 Units.
Prerequisites: CSE 313, CSE 320 and CSE 330
Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic analyzers, and object code generation. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 470.

CSE 572. Database Systems. 4 Units.
Prerequisites: CSE 330
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.

CSE 575. Internship in Computer Science. 4 Units.
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. Supervised work and study in private or public organizations. Graded credit/no credit.

CSE 580. Advanced Database Systems. 4 Units.
Prerequisites: CSE 572
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.

CSE 594. Topics in Computer Science. 4 Units.
Prerequisites: CSE 330 or consent of instructor.
An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Formerly CSCI 494, credit may not be received twice for the same topic.

CSE 595A. Independent Study. 1 Unit.
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. 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.

CSE 595B. Independent Study. 2 Units.
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. 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.

CSE 595C. Independent Study. 3 Units.
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. 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.
CSE 595D. Independent Study. 4 Units.
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.
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.

CSE 602. Computation and Complexity Theory. 4 Units.
Prerequisites: CSE 500 or consent of instructor
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, CSE 546, CSE 646. Formerly CSE 600.

CSE 603. Advanced Computation and Complexity Theory. 4 Units.
Prerequisites: CSE 602 or consent of instructor
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 CSCI 601 and 646.

CSE 610. Modern Computer Architecture. 4 Units.
Prerequisites: CSE 401 or consent of instructor
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.

CSE 611. VLSI Circuit Design. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
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.

CSE 620. Programming Languages Theory. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
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.

CSE 621. Contemporary Computer Graphics. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
Theory and practice of modern graphics techniques. Topics include 3-D modeling, interaction, ray tracing, object representation, visualization, and animation techniques.

CSE 624. Distributed Computer Systems. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
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.

CSE 625. Multiprocessor and Parallel Processing. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
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.

CSE 630. Theory of Algorithms and Their Analysis. 4 Units.
Prerequisites: CSE 431 or consent of instructor
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.

CSE 631. Advanced Data Communications. 4 Units.
Prerequisites: CSE 530 or consent of instructor
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.

CSE 634. Neural Networks. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
Theory and applications of neural networks; current developments; perceptrons; Hopfield networks; self-organizing mappings and content-addressable memories; multi-layer networks.

CSE 635. Numerical Algorithms and Simulation. 4 Units.
Prerequisites: CSE 427 or equivalent
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.

CSE 640. Artificial Intelligence. 4 Units.
Prerequisites: graduate standing in computer science or consent of instructor
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.
CSE 655. Software Engineering Concepts. 4 Units.
Prerequisites: CSE 455, 555, or 556 or consent of instructor
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 activity laboratory. Materials fee required.

CSE 656. Formal Methods, Models and
Languages. 4 Units.
Prerequisites: classified status
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.

CSE 660. Operating Systems Concepts and
Theory. 4 Units.
Prerequisites: CSE 460 or consent of instructor
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
activity laboratory. Materials fee required.

CSE 670. Compiler Design Theory. 4 Units.
Prerequisites: graduate standing in computer science or consent of
instructor
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 activity laboratory. Materials fee required.

CSE 671. Advanced Compilers. 4 Units.
Prerequisites: graduate standing in computer science or consent of
instructor. An introductory course in compilers is recommended
Intermediate code generation, optimization, object code generation and
architecture and optimized compiler co-design.

CSE 680. Distributed Database Management
Systems. 4 Units.
Prerequisites: graduate standing in computer science or consent of
instructor
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.

CSE 689. Comprehensive Examination. 1 Unit.
Prerequisites: CSE 600, CSE 610, CSE 630, CSE 655, CSE 660 and
consent of graduate coordinator
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.

CSE 690B. Masters Project. 2 Units.
Prerequisites: advancement to candidacy and consent of department
major advisor
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.

CSE 690C. Masters Project. 3 Units.
Prerequisites: advancement to candidacy and consent of department
major advisor
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.

CSE 690D. Masters Project. 4 Units.
Prerequisites: advancement to candidacy and consent of department
major advisor
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.

CSE 690E. Masters Project. 5 Units.
Prerequisites: advancement to candidacy and consent of department
major advisor
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.

CSE 695B. Graduate Independent Study. 2 Units.
Prerequisites: graduate standing in computer science, consent of
instructor, and approval of a written proposal of the research by the
department graduate program coordinator
Independent graduate research in computer science. A total of four units
in this course may be applied toward the M.S. degree.

CSE 695C. Graduate Independent Study. 3 Units.
Prerequisites: graduate standing in computer science, consent of
instructor, and approval of a written proposal of the research by the
department graduate program coordinator
Independent graduate research in computer science. A total of four units
in this course may be applied toward the M.S. degree.

CSE 695D. Graduate Independent Study. 4 Units.
Prerequisites: graduate standing in computer science, consent of
instructor, and approval of a written proposal of the research by the
department graduate program coordinator
Independent graduate research in computer science. A total of four units
in this course may be applied toward the M.S. degree.
CSE 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
CSE 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 699B. Thesis. 2 Units.
Prerequisites: advancement to candidacy and consent of department major advisor
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.

CSE 699C. Thesis. 3 Units.
Prerequisites: advancement to candidacy and consent of department major advisor
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.

CSE 699D. Thesis. 4 Units.
Prerequisites: advancement to candidacy and consent of department major advisor
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.

CSE 699E. Thesis. 5 Units.
Prerequisites: advancement to candidacy and consent of department major advisor
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.

CSE 699F. Thesis. 6 Units.
Prerequisites: advancement to candidacy and consent of department major advisor
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.

Bachelor of Arts in Computer Systems

Requirements (94-96 units)
Total units required for graduation: 180
Twenty units of courses covering graphical and digital media subject to approval by the School of Computer Science and Engineering.

Total Units 48

**Web Programming Option**

CSE 292 JAVA Programming 4
CSE 322 Web Page Programming 4
CSE 365 Systems Administration 4
CSE 366 Systems Networking 4
CSE 405 Server Programming 4
CSE 557 Computer Systems in Organizations 4
CSE 572 Database Systems 4
CSE 580 Advanced Database Systems 4

Eight units chosen from CSE courses numbered 300 and above. 8

Eight units of courses covering graphical and digital media subject to approval by the School of Computer Science and Engineering. 8

Total Units 48

**System Administration Option**

CSE 292 JAVA Programming 4
CSE 310 Digital Logic 5
CSE 322 Web Page Programming 4
CSE 360 Script Programming 4
CSE 365 Systems Administration 4
CSE 366 Systems Networking 4
CSE 401 Contemporary Computer Architecture 5
CSE 405 Server Programming 4
CSE 460 Operating Systems 4
CSE 481 Advanced Operating Systems 4
CSE 557 Computer Systems in Organizations 4
CSE 572 Database Systems 4

Total Units 50

**Bachelor of Science in Computer Engineering**

Requirements (132 units)

Total units required for graduation: 205

**Requirements for the B.S. in Computer Engineering**

**Lower-division requirements (67)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
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<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
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<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
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<tr>
<td>CSE 208</td>
<td>Introduction to Computer Engineering Design</td>
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<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
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<td>MATH 212</td>
<td>Calculus II</td>
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<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Multivariable Calculus I</td>
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<tr>
<td>MATH 252</td>
<td>Multivariable Calculus II</td>
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<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
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<tr>
<td>MATH 272</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 150</td>
<td>Introductory Electronics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 223</td>
<td>General Physics III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 224</td>
<td>General Physics IV</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper-division requirements (57)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 308</td>
<td>Computer Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>CSE 310</td>
<td>Digital Logic</td>
<td>5</td>
</tr>
<tr>
<td>CSE 311</td>
<td>Advanced Digital Design</td>
<td>4</td>
</tr>
<tr>
<td>CSE 313</td>
<td>Machine Organization</td>
<td>4</td>
</tr>
<tr>
<td>CSE 330</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSE 401</td>
<td>Contemporary Computer Architecture</td>
<td>5</td>
</tr>
<tr>
<td>CSE 403</td>
<td>Circuit Design and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CSE 408</td>
<td>Sustainable Engineering Design</td>
<td>4</td>
</tr>
<tr>
<td>CSE 460</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSE 535</td>
<td>Numerical Computation</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 318</td>
<td>Materials Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 352</td>
<td>Advanced Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Data Acquisition and Control</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 373</td>
<td>Mathematical Methods of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>CSE 455</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>or CSE 558</td>
<td>Requirements Analysis and Design</td>
<td></td>
</tr>
</tbody>
</table>

**Specialization (8)**

Take two courses in one specialization for a total of eight units from one of the following:

- **Networking and Computer Systems:**
  - CSE 461 Advanced Operating Systems
  - CSE 530 Data Communications and Networks
  - CSE 531 High Performance Networks
  - CSE 570 Compilers

- **High Performance and Embedded Systems:**
  - CSE 510 Advanced Computer Architecture
  - CSE 521 Field Programmable Gate Array Design
  - CSE 541 Robotics and Control

Total Units 132

**Bachelor of Science in Computer Science**

Requirements (123 units)

Total units required for graduation: 191

**Requirements for the B.S. in Computer Science**

**Lower-division requirements (53)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>
MATH 262  Applied Statistics  4
MATH 272  Discrete Mathematics  4
PHYS 221  General Physics I  5
PHYS 222  General Physics II  5
PHYS 223  General Physics III  5
BIOL 100  Topics in Biology  5
or BIOL 200  Biology of the Cell  5
One additional science course (with lab component), not previously taken, from the following areas:
  Biology
  Chemistry
  Geological Sciences
  Physics

Upper-division requirements (46)
CSE 310  Digital Logic  5
CSE 313  Machine Organization  4
CSE 320  Programming Languages  4
CSE 330  Data Structures  4
CSE 401  Contemporary Computer Architecture  5
CSE 431  Algorithm Analysis  4
CSE 460  Operating Systems  4
CSE 461  Advanced Operating Systems  4
CSE 488  Ethics and the Computing Professional  2
CSE 489  Senior Seminar  2
CSE 500  Introduction to Formal Languages and Automata  4
MATH 372  Combinatorics  4

Electives (24)
Theory. Four units chosen from:
  CSE 501  Introduction to Theory of Computation  4
  CSE 511  Expert Systems  4
  CSE 512  Introduction to Artificial Intelligence  4
  CSE 515  Automated Reasoning  4
  CSE 516  Machine Learning  4
  CSE 535  Numerical Computation  4

Systems. Four units chosen from:
  CSE 565  Systems Programming  4
  CSE 570  Compilers  4
  CSE 572  Database Systems  4
  CSE 580  Advanced Database Systems  4

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

Software Development. Four units chosen from:
  CSE 455  Software Engineering  4
  CSE 558  Requirements Analysis and Design  4

Eight units chosen from 300-level and above courses not previously counted as electives above.

Total Units  123

Master of Science in Computer Science

Requirements (45 units)
The Master of Science in Computer Science degree program provides a technically oriented postbaccalaureate scientific education for those who wish to acquire or extend their knowledge in the field of computer science. The program combines both the study of modern computer devices and their applications along with the study of the philosophical foundations which underlie the discipline.

In addition to the above goals and objectives, the program is also committed to improving the writing and communication skills of the student.

Admission to the Program
In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. An acceptable score on the GRE (general examination only);
2. Three letters of recommendation;
3. Completion of the graduate entrance writing requirement;
4. A statement of purpose from the student; and
5. Either A or B below:
   a. A baccalaureate degree in computer science;
   b. A baccalaureate degree in a related field with a cumulative grade point average of "B" (3.0) or better with no grade lower than "C+" (2.3) in a selection of program preparatory courses including:

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  4
CSE 202  Computer Science II  4
CSE 330  Data Structures  4

Courses in calculus and discrete mathematics equivalent to:

MATH 211  Basic Concepts of Calculus  4
MATH 212  Calculus II  4
MATH 213  Calculus III  4
MATH 272  Discrete Mathematics  4
MATH 372  Combinatorics  4

Courses in computer science equivalent to:

CSE 310  Digital Logic  5
CSE 313  Machine Organization  4
CSE 401  Contemporary Computer Architecture  5
CSE 431  Algorithm Analysis  4
CSE 455  Software Engineering  4
CSE 460  Operating Systems  4
CSE 500  Introduction to Formal Languages and Automata  4
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.

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 course work fulfilling the requirements of the Master of Science in Computer Science and grades of “C” (2.0) or better in all courses in the program;
7. For the thesis option, the student will submit the written thesis in bound form to the department. For the project option, the student will submit the written software engineering documentation in bound form to the department;
8. The graduation writing requirement is met upon successful completion of term papers in the graduate courses taken by the student and the writing of the thesis or software engineering documentation of the project;
9. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 60).

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 graduate study consisting of specific courses and an acceptable thesis abstract or project proposal based on the student’s interest, abilities and preparation. The major advisor will direct this research.

The program of graduate study as well as any subsequent modification of the thesis or project are subject to the approval of the 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 699 at a rate of two to six units per quarter for all contiguous academic year quarters starting from the time of advancement to candidacy until the thesis is completed and accepted. Over that period, nine units of CSE 699 will count toward the degree.

The student, upon completion of the thesis, must give a public presentation of the research and stand for the defense of the thesis before the faculty made up of the thesis committee and any other faculty members who wish to attend. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

Project Preparation, Presentation and Examination

The student must implement and complete a project acceptable to the student’s project committee and the Dean of Graduate Studies. The student’s project committee shall be chaired by the major advisor and two other faculty members who are chosen by the student after consultation with the major advisor and the graduate coordinator.
The project topic and major advisor must be included on the program of
graduate study submitted with the application to candidacy, although this
may be amended.

The student shall enroll in 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 602</td>
<td>Computation and Complexity Theory</td>
<td>4</td>
</tr>
<tr>
<td>CSE 610</td>
<td>Modern Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CSE 630</td>
<td>Theory of Algorithms and Their Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CSE 655</td>
<td>Software Engineering Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CSE 660</td>
<td>Operating Systems Concepts and Theory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twenty-five units from one of the following options:</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>45</td>
</tr>
</tbody>
</table>

**Examination Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 689</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>25</td>
</tr>
</tbody>
</table>

**Project Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 690B-E</td>
<td>Masters Project (2-5 units for a total of 5)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>25</td>
</tr>
</tbody>
</table>

**Thesis Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 699B-F</td>
<td>Thesis (2-5 units for a total of 9)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>25</td>
</tr>
</tbody>
</table>

**Minor in Computer Science**

**Requirements (28 units)**

**Requirements for a minor in Computer Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 272</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 372</td>
<td>Combinatorics</td>
<td></td>
</tr>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CSE 330</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twelve units of upper-division CSE courses.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>28</td>
</tr>
</tbody>
</table>

**Certificate in Computer Systems and Programming**

**Requirements (28 units)**

Certificates may be earned by regularly matriculated or extended learning
students and denote successful completion of a prescribed program of
study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 272</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 372</td>
<td>Combinatorics</td>
<td></td>
</tr>
<tr>
<td>CSE 201</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSE 202</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CSE 330</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twelve units of upper-division CSE courses.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>28</td>
</tr>
</tbody>
</table>
College of Social and Behavioral Sciences

College of Social and Behavioral Sciences

Jamal Nassar, Dean
Pam Schram, Associate Dean
Deborah Parsons, Assistant Dean
David Riefer, Assistant Dean

Social and Behavioral Sciences Building, Room 207
(909) 537-7569 College of Social and Behavioral Sciences website (http://csbs.csusb.edu)

Departments/Schools

• Anthropology (http://anthropology.csusb.edu)
• Criminal Justice (http://criminaljustice.csusb.edu)
• Economics (http://economics.csusb.edu)
• Geography and Environmental Studies (http://geog.csusb.edu)
• History (http://history.csusb.edu)
• Political Science (http://polisci.csusb.edu)
• Psychology (http://psychology.csusb.edu)
• Social Work (http://socialwork.csusb.edu)
• Sociology (http://sociology.csbs.csusb.edu)

Undergraduate Degrees

Bachelor of Arts

• Social Sciences
  • Multidisciplinary Track (p. 713)
  • Credential Track (p. 711)
  
  **Coordinator:** Tom Long

Graduate Degree

• Master of Arts in Social Sciences and Globalization (p. 818)
  
  **Coordinator:** Cherstin Lyon

Minors

• Ethnic Studies (p. 825) with options in:
  • General Ethnic Studies
  • African American Studies
  • Asian Pacific American Studies
  • Chicano(a)/Latino(a) Studies
  • Native American Studies
  
  **Coordinator:** Elsa Valdez

  • Chicano(a)/Latino(a) Studies (p. 827)

Ethnicity is an interdisciplinary study of American nationality and race, and utilizes knowledge from the humanities and social sciences to explore issues and experiences. Faculty teaching in the program represent the wide diversity of these disciplines. The study of American ethnicity and race is designed to enhance the understanding of a multicultural and multiracial society in the United States.

The Ethnic Studies Coordinator oversees the program including academic advising and mentoring of students. Collaborative efforts between students and faculty may result in research proposals, data compilation, joint professional papers for academic conferences, and joint publications.

Governed by the College of Social and Behavioral Sciences, the coordinator works closely with an Advisory Council whose members are drawn from the faculty of several colleges as well as students and staff.

• Islamic and Middle Eastern Studies (p. 828)
  
  **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.

Certificates

• Islamic and Middle Eastern Studies (p. 718)
  
  **Coordinator:** Kevin Grisham

• Native Nations/Indigenous Peoples Studies (p. 719)
  
  **Coordinator:** James Fenelon

Programs

• Aerospace Studies (Air Force ROTC) (p. 710)
• Military Science (Army ROTC) (p. 823)

Aerospace Studies Courses

**AS 90. Leadership Laboratory. 0 Units.**
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.

**AS 101. The Air Force Today I. 1 Unit.**
Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer.

**AS 102. The Air Force Today II. 1 Unit.**
The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers.
AS 103. The Air Force Today III. 1 Unit.
Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics.

AS 201. The Development of Air Power I. 1 Unit.
Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought.

AS 202. The Development of Air Power II. 1 Unit.
Development of air power technology and tactics from the Vietnam War to present and its impact on military thought.

AS 203. Air Force Ethics. 1 Unit.
In-depth discussion of values and public expectations as they relate to military officers.

AS 301. Air Force Leadership and Management I. 3 Units.
Principles and functions of management and leadership.

AS 302. Air Force Leadership and Management II. 3 Units.
Quality Air Force initiatives, procedures, and applications.

AS 303. Air Force Leadership and Management III. 3 Units.
Ethics in modern society and the military, including the Standards of Conduct and the principles of modern warfare.

Forces and issues that influence policy decisions and application of military force. The impact of the executive branch and Congress on military operations.

Geopolitical influences on U.S. political decision making and the use of military force.

AS 403. National Security Forces in Contemporary American Society III. 3 Units.
Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system.

ES 100. Ethnicity and Race in America. 4 Units.
(GE=D4)
Culture, history and politics, and current problems of ethnic and racial minorities. Major groups included will be Black, Chicano, Asian American, and Native American.

ES 102. Chicano(a)/Latino(a) Culture: An Overview. 4 Units.
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.

ES 300. Research Methods in Ethnic Studies. 4 Units.
Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of ethnic experience.

ES 392. Topics in Ethnic Studies. 2 Units.
A selected area or issue of ethnic studies. May be repeated for credit as topics change.

ES 394. Topics in Ethnic Studies. 4 Units.
A selected area or issue of ethnic studies. May be repeated for credit as topics change.

ES 595A. Independent Study. 1 Unit.
Prerequisites: consent of instructor and Ethnic Studies Program Committee approval
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.

ES 595B. Independent Study. 2 Units.
Prerequisites: consent of instructor and Ethnic Studies Program Committee approval
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.

ES 595D. Independent Study. 4 Units.
Prerequisites: consent of instructor and Ethnic Studies Program Committee approval
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.

Military Science Courses

MILS 100. Leadership Laboratory. 1 Unit.
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.

MILS 151. Basic Military Skills I. 2 Units.
Prerequisites: MILS 151 or consent of instructor
Introduction to the role of the officer, the noncommissioned officer, and organization of the total Army. Formerly MILS 120.

MILS 152. Basic Military Skills II. 2 Units.
Prerequisites: MILS 151 or consent of instructor
A continuation of basic military skills. Formerly MILS 146D.

MILS 153. Basic Military Skills III. 2 Units.
Prerequisites: MILS 151 and MILS 152 or consent of instructor
A continuation of basic military skills. Formerly MILS 146E.

MILS 251. Leadership and Management I. 2 Units.
Prerequisites: MILS 151, MILS 152, and MILS 153 or consent of instructor
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.
MILS 252. Leadership and Management II. 2 Units.
Prerequisites: MILS 251 or consent of instructor
Continuation of leadership and management skills.

MILS 253. Leadership and Management III. 2 Units.
Prerequisites: MILS 251 and MILS 252 or consent of instructor
Continuation of leadership and management skills.

MILS 260. ROTC Basic Camp. 2 Units.
Prerequisites: consent of Military Science Department advisor
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.

MILS 351. Small Unit Operations I. 2 Units.
Prerequisites: consent of instructor
Current tactical doctrine as applied to small unit operations.

MILS 352. Small Unit Operations II. 2 Units.
Prerequisites: MILS 351
Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leaders role.

MILS 353. Advanced Military Leadership and Management. 2 Units.
Prerequisites: MILS 352
Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces.

MILS 451. Military Law. 2 Units.
Prerequisites: consent of instructor
Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial.

MILS 452. Contemporary Military Policy. 2 Units.
Prerequisites: consent of instructor
Contemporary military policy and related subjects of topical military interest, including personal ethics, relevant to the training of junior-level officers.

MILS 453. Senior Leadership Seminar. 2 Units.
Prerequisites: consent of instructor
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.

MILS 595. Independent Study. 2 Units.
Prerequisites: completion of all advanced military science courses and consent of instructor
A directed reading and research course in contemporary military issues oriented towards a students transition from cadet to commissioned officer. May be repeated twice for credit.

Social Sciences Courses

SSCI 165. Regions and Peoples of the World. 4 Units.
(GE=D3)
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.

SSCI 300. Nonwestern World. 4 Units.
Prerequisites: junior or senior standing
(GE=D5)
Historical, political, social, geographic and economic aspects of nonwestern societies.

SSCI 304. Contemporary Latin America. 4 Units.
Prerequisites: junior or senior standing
(GE=D5)
Social, economic and political conditions and institutions in contemporary Latin America.

SSCI 306. Expository Writing for the Social Sciences. 4 Units.
Prerequisites: satisfaction of the GE written communication (A1) requirement and a minimum of 90 quarter (60 semester) units of college credit
(GE=F1)
Writing on topics related to the social sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly SSCI 495. Graded A, B, C/no credit.

SSCI 309. Family, School and Culture. 3 Units.
Prerequisites: EELB 310 and HD 315
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.

SSCI 315. Cultural Adaptation: The Quest for Survival. 4 Units.
Prerequisites: junior or senior standing
(GE=D5)
An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs.

SSCI 316. Race and Racism. 4 Units.
Prerequisites: junior or senior standing
(GE=D5, G1)
An interdisciplinary and cross-cultural examination of the concepts of race, ethnic group, prejudice and racism which includes studies of changing prejudiced attitudes.
SSCI 320. Understanding Capitalism. 4 Units.
Prerequisites: junior or senior standing
(GE=D5)
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.

SSCI 321. Urbanization and the Urban Environment. 4 Units.
Prerequisites: junior or senior standing
(GE=D5)
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.

SSCI 325. Perspectives on Gender. 4 Units.
Prerequisites: junior or senior standing
(GE=D5, G1)
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.)

SSCI 345. Religious Expression in America. 4
Units.
Prerequisites: junior or senior standing
(GE=D5)
Interdisciplinary social science analysis of the relationship among religious
belief, religious practices and secular society in American culture.

SSCI 350. Roots of Modern Racism in
America. 4 Units.
Prerequisites: junior or senior standing
(GE=D5, G1)
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.

SSCI 368. MARC Seminar I. 2 Units.
A selected examination of original research articles in behavioral and
biomedical sciences. Students will learn to critically read, critique, and
present published scientific findings. Offered as NSCI 368, 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.

SSCI 468. MARC Seminar II. 2 Units.
Prerequisites: NSCI 368, PSYC 368 or SSCI 368
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. Offered as NSCI 468, PSYC 368, 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.

SSCI 499. Senior Seminar. 2 Units.
Prerequisites: senior standing
Assessment of the students 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.

SSCI 515. Model United Nations. 4 Units.
An analysis of the role of the United Nations in world politics to prepare
students for the national United Nations competition. May be repeated for
credit. A total of eight units may be applied towards graduation. Formerly
PSCI 515.

SSCI 516. Model Arab League. 4 Units.
An analysis of the role of the Arab League in world politics to prepare
students for the national Arab League competition. May be repeated for
credit. A total of eight units may be applied towards graduation.

SSCI 590. Seminar in the Social Sciences. 4
Units.
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.

SSCI 600. Social and Cultural Perspectives in
the Social Sciences. 5 Units.
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.

SSCI 695A. Directed Graduate Studies. 1 Unit.
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 students committee and, if an interdisciplinary
studies major, with approval of the committee on graduate education and
consent of the Dean of Graduate Studies.

SSCI 695B. Directed Graduate Studies. 2
Units.
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 students committee and, if an interdisciplinary
studies major, with approval of the committee on graduate education and
consent of the Dean of Graduate Studies.

SSCI 695C. Directed Graduate Studies. 3
Units.
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 students committee and, if an interdisciplinary
studies major, with approval of the committee on graduate education and
consent of the Dean of Graduate Studies.

SSCI 695D. Directed Graduate Studies. 4
Units.
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 students committee and, if an interdisciplinary
studies major, with approval of the committee on graduate education and
consent of the Dean of Graduate Studies.
SSCI 695E. Directed Graduate Studies. 5 Units.
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 students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

SSCI 695F. Directed Graduate Studies. 6 Units.
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 students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies.

SSCI 697. Comprehensive Examination. 2 Units.
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
Assessment of the student’s ability to apply the theories, methods and understanding of the social sciences to the phenomena of globalization.

SSCI 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
SSCI 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.  
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies  
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.  
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies  
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 699. Graduate Project or Thesis. 4 Units.  
Prerequisites: advancement to candidacy and consent of program coordinator  
Independent graduate project or research conducted under guidance of the major advisor culminating in a written project or thesis.
Aerospace Studies (Air Force ROTC) Program

Aerospace Studies Office
Temporary Bldg, Room 105
(909) 537-5440 Aerospace Studies Office website (http://afrotc.csusb.edu)

Aerospace Studies Program

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 some career fields (i.e. pilots, navigators, air battle managers) is longer. These individuals serve in a broad range of careers to include flying, engineering, administration and a host of other fields, depending on the needs of the Air Force.

To enter Air Force ROTC, an individual must have at least three years of college left, which may include 1 year of 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 with a cumulative GPA of 2.0 or higher. 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 (some of which cover ALL tuition and fees), 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 $600 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 at the Air Force ROTC website (http://www.afrotc.com).

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) (6)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 90</td>
<td>Leadership Laboratory (required every quarter)</td>
<td>0</td>
</tr>
</tbody>
</table>

Field Training (0)

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) (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 90</td>
<td>Leadership Laboratory (required every quarter)</td>
<td>0</td>
</tr>
<tr>
<td>AS 301</td>
<td>Air Force Leadership and Management I</td>
<td>3</td>
</tr>
<tr>
<td>AS 302</td>
<td>Air Force Leadership and Management II</td>
<td>3</td>
</tr>
<tr>
<td>AS 303</td>
<td>Air Force Leadership and Management III</td>
<td>3</td>
</tr>
<tr>
<td>AS 401</td>
<td>National Security Forces in Contemporary American Society I</td>
<td>3</td>
</tr>
<tr>
<td>AS 402</td>
<td>National Security Forces in Contemporary American Society II</td>
<td>3</td>
</tr>
<tr>
<td>AS 403</td>
<td>National Security Forces in Contemporary American Society III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 24

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) (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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<tr>
<td>AS 301</td>
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<td>3</td>
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<tr>
<td>AS 302</td>
<td>Air Force Leadership and Management II</td>
<td>3</td>
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<tr>
<td>AS 303</td>
<td>Air Force Leadership and Management III</td>
<td>3</td>
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<tr>
<td>AS 401</td>
<td>National Security Forces in Contemporary American Society I</td>
<td>3</td>
</tr>
<tr>
<td>AS 402</td>
<td>National Security Forces in Contemporary American Society II</td>
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<tr>
<td>AS 403</td>
<td>National Security Forces in Contemporary American Society III</td>
<td>3</td>
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Total Units 18

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>AS 303</td>
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<td>AS 401</td>
<td>National Security Forces in Contemporary American Society I</td>
<td>3</td>
</tr>
<tr>
<td>AS 402</td>
<td>National Security Forces in Contemporary American Society II</td>
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</tr>
<tr>
<td>AS 403</td>
<td>National Security Forces in Contemporary American Society III</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Arts 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 prepare 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 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

<table>
<thead>
<tr>
<th>Lower-division requirements (45)</th>
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</thead>
<tbody>
<tr>
<td>ANTH 140 World Civilizations I, the Rise of Civilization</td>
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<tr>
<td>or HIST 140 World Civilizations I, the Rise of Civilization</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200 Principles of Microeconomics</td>
<td>4</td>
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<tr>
<td>ECON 202 Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 100 Introduction to Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 103 Physical Geography</td>
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<tr>
<td>HIST 142 World Civilizations II, the Civilizations of the East and West</td>
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<tr>
<td>HIST 144 World Civilizations III, the Expansion of Europe</td>
<td>4</td>
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<tr>
<td>HIST 200 United States History to 1877</td>
<td>4</td>
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<tr>
<td>HIST 201 United States History, 1877 to the Present</td>
<td>4</td>
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<tr>
<td>PHIL 192 Introduction to Philosophy of Religion</td>
<td>4</td>
</tr>
<tr>
<td>or PHIL 193 Introduction to Eastern Philosophy</td>
<td>4</td>
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<tr>
<td>PSCI 203 American Government</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Upper-division requirements (50)</th>
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<tbody>
<tr>
<td>GEOG 302 Geography of California</td>
<td>4</td>
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<tr>
<td>HIST 370 History of California</td>
<td>4</td>
</tr>
</tbody>
</table>

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 |

Four units chosen from:

| HIST 320 History of Ancient Greece | 4 |
| HIST 321 History of Rome | 4 |
| HIST 400 Early Medieval Europe | 4 |

Eight units chosen from:

| HIST 401 High Medieval Europe | 8 |
| HIST 402 Renaissance and Reformation | 8 |
| HIST 403 The Age of Absolutism and Enlightenment | 8 |

| HIST 383 Classical Islamic Civilization | 8 |
| HIST 384 Modern Middle East | 8 |
| HIST 385 Africa to 1500 | 8 |
| HIST 386 Africa 1500 to 1870 | 8 |
| HIST 387 Africa 1870 to Present | 8 |
| HIST 390 History of Modern Mexico | 8 |
| HIST 426 Ancient and Early Imperial China | 8 |
| HIST 428 Medieval China | 8 |
| HIST 431 Modern China II, 1911-1949 | 8 |
| HIST 432 Modern China III, 1949-1979 | 8 |
| HIST 435 World War II in the Pacific | 8 |
| HIST 440 Modern Japanese History | 8 |
| HIST 450 History of Southern Africa | 8 |
| HIST 465 Modern Central America | 8 |
| HIST 466 Foreign Relations of Latin America | 8 |
| HIST 467 Latin American History Through Film | 8 |
| HIST 469 Colonial Latin America | 8 |
| HIST 470 Modern Latin America | 8 |
| HIST 487 Topics in Modern Middle Eastern History | 8 |

Four units chosen from:

| HIST 350 The American Colonies, 1607-1783 | 4 |
| HIST 351 The Evolution of American Democracy, 1783-1840 | 4 |
| HIST 354 Civil War and Reconstruction | 4 |
| HIST 356 The United States, 1877-1917 | 4 |
| HIST 357 The United States, 1917-1945 | 4 |
| HIST 359 The United States, 1945-1980 | 4 |
| HIST 540 Constitutional History of the United States | 4 |
| HIST 556 Foreign Relations of the United States | 4 |

Four units chosen from:

| HIST 340 African-American History, 1620-1865 | 4 |
| 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 the Law | 4 |
| HIST 565 Immigration and Ethnic American History | 4 |
| PSCI 330 State and Local Politics | 4 |

Four units chosen from:

| HIST 305 History of Ancient Greece | 4 |
| HIST 306 History of Rome | 4 |
| HIST 400 Early Medieval Europe | 4 |
### Political Science Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PSCI 204</td>
<td>International Relations</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 314</td>
<td>American Political Thought</td>
<td>4</td>
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<td>Four units chosen from:</td>
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<tr>
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Total Units: 36

### Economics Option

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<td>History of Economic Thought</td>
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<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
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<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
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<td>Multinational Corporations</td>
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<td>ECON 372</td>
<td>Business Cycles</td>
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Sixteen units of upper-division Economics courses: 16

Total Units: 36

### Geography Option

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<td>GEOG 313</td>
<td>Geography of the Developed World</td>
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<tr>
<td>GEOG 320</td>
<td>Geography of Social Issues</td>
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<tr>
<td>GEOG 322</td>
<td>United States and Mexico Border Issues</td>
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</tr>
<tr>
<td>GEOG 323</td>
<td>North America</td>
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<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
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<td>GEOG 420</td>
<td>Geography of Economic Activity</td>
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<td>GEOG 415</td>
<td>Urban Planning and Land Development</td>
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<tr>
<td>or GEOG 440</td>
<td>Understanding the City</td>
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Total Units: 32
Bachelor of Arts in Social Sciences - Multidisciplinary Track

Requirements (62 to 65 units)

Total units required for graduation: 180

A minimum of 30 to 31 units (primary) in one of the following fields, plus 16 to 17 units each (secondary) in two others:

- Anthropology
- Economics
- Ethnic Studies
- Geography
- History
- Political Science
- Psychology
- Sociology

Of the 30 to 31 units comprising the primary field, no more than twelve units may be from the lower-division courses. In each secondary field, no more than eight units may be from lower-division courses. Within the social sciences major, cross-listed courses cannot be counted both in a primary field and in a secondary field.

Those courses which will be required and allowed for use in this track, both in the primary and secondary fields, are listed below. It is the responsibility of both the student and the student’s advisor to construct a program in line with these requirements. Once agreed to, the program is filed in the student’s permanent folder in the Office of Records, Registration and Evaluations but is subject to revision by mutual consent. No more than 32 units may be selected from any one department. A special topics primary or secondary field may be contracted with the dean of the College of Social and Behavioral Sciences.

Requirements for the B.A. in Social Sciences - Multidisciplinary Track

Anthropology

(Primary Field 30 units, Secondary Field 16 units)

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<td>ANTH 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
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Four 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 | |
| ANTH 312 | Historical Archaeology | 4 | |
| ANTH 315 | Archaeology of the Southwest | 4 | |
| ANTH 323 | Native North American Art | 4 | |
| ANTH 324 | Pre-Columbian Art | 4 | |
| ANTH 400 | Archaeological Theory and Method | 4 | |

Secondary Field (16)

ANTH 100 or ANTH 102

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<td>Prehistory of the Middle East and Europe</td>
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<td>ANTH 305</td>
<td>North American Prehistory</td>
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<td>ANTH 306</td>
<td>Aztecs, Maya and their Predecessors</td>
<td>4</td>
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<td>ANTH 307</td>
<td>Incas and their Predecessors</td>
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<td>ANTH 312</td>
<td>Historical Archaeology</td>
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<td>ANTH 315</td>
<td>Archaeology of the Southwest</td>
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<td>ANTH 320</td>
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<td>ANTH 323</td>
<td>Native North American Art</td>
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<td>ANTH 324</td>
<td>Pre-Columbian Art</td>
<td>4</td>
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<td>ANTH 325</td>
<td>Human Biological Variance and the Concept of Race</td>
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<td>Human Origins</td>
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<td>ANTH 331</td>
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<td>ANTH 340</td>
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<td>ANTH 341</td>
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<td>ANTH 344</td>
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Eight units chosen from:

| ANTH 302 | African Archaeology | 8 | |
| ANTH 303 | Prehistory of the Middle East and Europe | 8 | |
| ANTH 305 | North American Prehistory | 8 | |
| ANTH 306 | Aztecs, Maya and their Predecessors | 8 | |
| ANTH 307 | Incas and their Predecessors | 8 | |
| ANTH 312 | Historical Archaeology | 8 | |
| ANTH 315 | Archaeology of the Southwest | 8 | |
| ANTH 320 | Archaeological Survey and Excavation | 8 | |
| ANTH 323 | Native North American Art | 8 | |
| ANTH 324 | Pre-Columbian Art | 8 | |
| ANTH 325 | Human Biological Variance and the Concept of Race | 8 | |
| ANTH 326 | Human Origins | 8 | |
| ANTH 327 | Primate Evolution and Ecology | 8 | |
| ANTH 328 | Primate Evolution and Ecology | 8 | |
| ANTH 330 | Cross-Cultural Child-Rearing Practices | 8 | |
| ANTH 331 | Anthropology of Human Development | 8 | |
| ANTH 332 | Cross-Cultural Perspectives on Aging | 8 | |

Four units chosen from:

<p>| 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 | 4 | |
| ANTH 320 | Archaeological Survey and Excavation | 4 | |
| ANTH 323 | Native North American Art | 4 | |
| ANTH 324 | Pre-Columbian Art | 4 | |
| ANTH 325 | Human Biological Variance and the Concept of Race | 4 | |
| ANTH 326 | Human Origins | 4 | |
| ANTH 327 | Primate Evolution and Ecology | 4 | |
| ANTH 328 | Primate Evolution and Ecology | 4 | |
| ANTH 330 | Cross-Cultural Child-Rearing Practices | 4 | |
| ANTH 331 | Anthropology of Human Development | 4 | |
| ANTH 332 | Cross-Cultural Perspectives on Aging | 4 | |</p>
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<tbody>
<tr>
<td>ANTH 333</td>
<td>Sex and Gender in Cross-Cultural Perspective</td>
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<td>Applied Anthropology and Social Policy</td>
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<td>ANTH 352</td>
<td>Indians of the Southwest</td>
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<td>ANTH 354</td>
<td>Cultures of Mexico and Central America</td>
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<td>ANTH 356</td>
<td>Cultures of South America</td>
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<td>ANTH 357</td>
<td>African Societies</td>
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<td>ANTH 358</td>
<td>Peoples of the Middle East</td>
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<td>ANTH 362</td>
<td>Asian Cultures and Societies</td>
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<td>ANTH 575B-E</td>
<td>Internship in Anthropology</td>
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<td>ANTH 576B-E</td>
<td>Internship in Museum Studies</td>
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<td>ANTH 577B-E</td>
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<td>ANTH 578B-E</td>
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<td>ANTH 585</td>
<td>Fieldwork in Cultural Anthropology</td>
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<td>ANTH 595B-E</td>
<td>Independent Study</td>
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**Total Units**: 46

### Economics

(Primary Field 30 units, Secondary Field 16 units)

#### Primary Field (30)

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<td>Principles of Microeconomics</td>
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<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
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<tr>
<td>SSCI 499</td>
<td>Senior Seminar</td>
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Four units chosen from applied field courses:

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<th>Course</th>
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<tbody>
<tr>
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<td>Economics of the Environment</td>
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<td>ECON 410</td>
<td>Money and Banking</td>
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<tr>
<td>ECON 430</td>
<td>International Economics</td>
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<td>ECON 435</td>
<td>Multinational Corporations</td>
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<td>ECON 460</td>
<td>Labor Economics</td>
</tr>
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<td>ECON 475</td>
<td>Public Finance</td>
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Four units chosen from political economy courses:

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<th>Code</th>
<th>Course</th>
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<tbody>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
</tr>
<tr>
<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
</tr>
<tr>
<td>ECON 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
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<tr>
<td>ECON 421</td>
<td>Economic History of the United States</td>
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<td>ECON 445</td>
<td>Political Economy</td>
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<td>Global Economy</td>
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Eight units of additional upper-division economics course work. 8

#### Secondary Field (16)

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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
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</table>

Eight units of additional upper-division economics course work. 8

**Total Units**: 46

### 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)

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<tbody>
<tr>
<td>ES 100</td>
<td>Ethnicity and Race in America</td>
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<td>ES 300</td>
<td>Research Methods in Ethnic Studies</td>
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<td>ES 394</td>
<td>Topics in Ethnic Studies</td>
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<td>SSCI 499</td>
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Sixteen units chosen from:

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<tr>
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<td>Aztecs, Maya and their Predecessors</td>
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<td>ANTH 307</td>
<td>Incas and their Predecessors</td>
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<tr>
<td>ANTH 323</td>
<td>Native North American Art</td>
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<tr>
<td>ANTH 325</td>
<td>Human Biological Variance and the Concept of Race</td>
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<tr>
<td>ANTH 330</td>
<td>Cross-Cultural Child-Rearing Practices</td>
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<tr>
<td>ANTH 331</td>
<td>Anthropology of Human Development</td>
</tr>
<tr>
<td>ANTH 332</td>
<td>Cross-Cultural Perspectives on Aging</td>
</tr>
<tr>
<td>ANTH 333</td>
<td>Sex and Gender in Cross-Cultural Perspective</td>
</tr>
<tr>
<td>ANTH 340</td>
<td>Anthropology of Health, Illness and Healing</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Indians of North America</td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Indians of the Southwest</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>African Societies</td>
</tr>
<tr>
<td>ANTH 365</td>
<td>Asian American Cultures</td>
</tr>
<tr>
<td>ANTH 388</td>
<td>Language and Culture</td>
</tr>
<tr>
<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
</tr>
<tr>
<td>ES 595A-D</td>
<td>Independent Study</td>
</tr>
<tr>
<td>HIST 340</td>
<td>African-American History, 1620-1865</td>
</tr>
<tr>
<td>HIST 341</td>
<td>African-American History, 1865-Present</td>
</tr>
<tr>
<td>HIST 391</td>
<td>Chicano History</td>
</tr>
<tr>
<td>HIST 565</td>
<td>Immigration and Ethnic American History</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Stereotyping, Prejudice and Discrimination</td>
</tr>
<tr>
<td>PSYC 345</td>
<td>Cross-Cultural Psychology</td>
</tr>
<tr>
<td>SOC 410</td>
<td>Sociology of Race and Ethnicity</td>
</tr>
<tr>
<td>SOC 425</td>
<td>Asian Americans: Origin and Ethnicity</td>
</tr>
<tr>
<td>SOC 441</td>
<td>Black Social Stratification</td>
</tr>
<tr>
<td>SOC 442</td>
<td>Chicano Social Stratification</td>
</tr>
<tr>
<td>SOC 525</td>
<td>Indian Nations and Native America</td>
</tr>
</tbody>
</table>

**Secondary Field (16)**
ES 100  Ethnicity and Race in America  4
ES 394  Topics in Ethnic Studies  4
Eight units chosen from:  8
  ANTH 306  Aztecs, Maya and their Predecessors
  ANTH 307  Incas and their Predecessors
  ANTH 323  Native North American Art
  ANTH 325  Human Biological Variance and the Concept of Race
  ANTH 330  Cross-Cultural Child-Rearing Practices
  ANTH 331  Anthropology of Human Development
  ANTH 332  Cross-Cultural Perspectives on Aging
  ANTH 333  Sex and Gender in Cross-Cultural Perspective
  ANTH 340  Anthropology of Health, Illness and Healing
  ANTH 351  Indians of North America
  ANTH 352  Indians of the Southwest
  ANTH 357  Native North American Art
  ANTH 365  Human Biological Variance and the Concept of Race
  ANTH 375  Cross-Cultural Child-Rearing Practices
  ANTH 388  Anthropology of Human Development
  ANTH 389  Cross-Cultural Perspectives on Aging
  ANTH 390  Sex and Gender in Cross-Cultural Perspective
  ANTH 391  Anthropology of Health, Illness and Healing

Total Units  46

History
(Primary Field 30 units, Secondary Field 16 units)

Primary Field (30)
Select one of the following options:  4-8
  Option A:
  HIST 200  United States History to 1877
  Option B:
  Eight units chosen from:
  HIST 350  The American Colonies, 1607-1783
  HIST 351  The Evolution of American Democracy, 1783-1840
  HIST 354  Civil War and Reconstruction

Select one of the following options:  4-8
  Option A:
  HIST 201  United States History, 1877 to the Present
  Option B:
  Eight units chosen from:
  HIST 356  The United States, 1877-1917
  HIST 357  The United States, 1917-1945
  HIST 359  The United States, 1945-1980

Select one of the following options:  4-8
  Option A:
  HIST 305  Ancient and Medieval Europe
  Option B:
  HIST 400  Early Medieval Europe
  HIST 401  High Medieval Europe

Select one of the following options:  4-8
  Option A:
  HIST 306  Early Modern Europe, the Renaissance to 1815
  Option B:
  HIST 402  Renaissance and Reformation
  HIST 403  The Age of Absolutism and Enlightenment

Select one of the following options:  4-8
  Option A:
  HIST 307  Modern Europe, 1815 to the Present
  Option B:
  HIST 503  Europe Since 1945
  HIST 535  Studies in European National History

SSCI 499  Senior Seminar  2
Eight units of upper-division history course work.  8

Secondary Field (16)
Eight units of upper-division history course work  8
Select either Group 1 or 2.  8

Total Units  46

Group 1
Select one of the following groups:  4-8
  Group A:
  HIST 200  United States History to 1877
  Group B:
  Eight units chosen from:
  HIST 350  The American Colonies, 1607-1783
  HIST 351  The Evolution of American Democracy, 1783-1840

Geography
(Primary Field 31 units, Secondary Field 16 to 17 units)

Primary Field (31)
GEOG 100  Introduction to Human Geography  4
GEOG 103  Physical Geography  5
GEOG 420  Geography of Economic Activity  4
SSCI 499  Senior Seminar  2
Sixteen units of upper-division geography course work, except  16
GEOG 300 or GEOG 311. Also, no more than eight of these sixteen units of upper-division elective course work can be an area study.

Secondary Field (16-17)
GEOG 100  Introduction to Human Geography  4-5
or GEOG 103  Physical Geography
GEOG 420  Geography of Economic Activity  4
Eight units of upper-division geography course work, except  8
GEOG 300 or GEOG 311. Also, only four of these eight units of upper-division elective course work can be an area study.

Total Units  47-48
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 201</td>
<td>United States History, 1877 to the Present</td>
<td>4-8</td>
</tr>
<tr>
<td>HIST 356</td>
<td>The United States, 1877-1917</td>
<td></td>
</tr>
<tr>
<td>HIST 357</td>
<td>The United States, 1917-1945</td>
<td></td>
</tr>
<tr>
<td>HIST 359</td>
<td>The United States, 1945-1980</td>
<td></td>
</tr>
<tr>
<td>HIST 354</td>
<td>Civil War and Reconstruction</td>
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</tr>
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</table>

Total Units: 8

**Group 2**

Select one of the following groups: 4-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HIST 306</td>
<td>Early Modern Europe, the Renaissance to 1815</td>
<td></td>
</tr>
<tr>
<td>HIST 402</td>
<td>Renaissance and Reformation</td>
<td></td>
</tr>
<tr>
<td>HIST 403</td>
<td>The Age of Absolutism and Enlightenment</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 8

### Political Science

(Primary Field 30 units, Secondary Field 16 units)

**Primary Field (30)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 204</td>
<td>International Relations</td>
<td>4</td>
</tr>
<tr>
<td>SSCI 499</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSCI 320</td>
<td>The Legislative Process</td>
<td></td>
</tr>
<tr>
<td>PSCI 326</td>
<td>Political Parties and Interest Groups</td>
<td></td>
</tr>
<tr>
<td>PSCI 431</td>
<td>The American Presidency</td>
<td></td>
</tr>
<tr>
<td>PSCI 528</td>
<td>Formulation of Public Policy</td>
<td></td>
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</tbody>
</table>

Comparative Government. Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSCI 300</td>
<td>Western Political Systems</td>
<td></td>
</tr>
<tr>
<td>PSCI 304</td>
<td>East European Political Systems</td>
<td></td>
</tr>
<tr>
<td>PSCI 306</td>
<td>Developing Political Systems</td>
<td></td>
</tr>
<tr>
<td>PSCI 310</td>
<td>Classical Political Thought</td>
<td></td>
</tr>
<tr>
<td>PSCI 311</td>
<td>Foundations of Modern Political Thought</td>
<td></td>
</tr>
<tr>
<td>PSCI 313</td>
<td>Modern Political Thought</td>
<td></td>
</tr>
<tr>
<td>PSCI 317</td>
<td>American Government and Politics. Four units chosen from:</td>
<td></td>
</tr>
<tr>
<td>PSCI 328</td>
<td>Judicial Process</td>
<td></td>
</tr>
<tr>
<td>PSCI 400</td>
<td>International Politics</td>
<td></td>
</tr>
<tr>
<td>PSCI 484</td>
<td>National Security Policy</td>
<td></td>
</tr>
<tr>
<td>PSCI 500</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td>PSCI 510</td>
<td>International Organization</td>
<td></td>
</tr>
<tr>
<td>PSCI 320</td>
<td>American Constitutional Law</td>
<td></td>
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</table>

Total Units: 46

### Psychology

(Primary Field 31 units, Secondary Field 16 units)

**Primary Field (31)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Psychological Statistics</td>
<td>5</td>
</tr>
<tr>
<td>SSCI 499</td>
<td>Senior Seminar</td>
<td>2</td>
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</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 382</td>
<td>Psychology of Social Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYC 385</td>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>PSYC 390</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 360</td>
<td>Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 362</td>
<td>Learning and Motivation</td>
<td></td>
</tr>
<tr>
<td>PSYC 363</td>
<td>Biological Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 364</td>
<td>Perception</td>
<td></td>
</tr>
<tr>
<td>PSYC 315</td>
<td>Communication Processes</td>
<td></td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 310</td>
<td>Classical Political Thought</td>
<td></td>
</tr>
<tr>
<td>PSYC 311</td>
<td>Foundations of Modern Political Thought</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 46
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 318</td>
<td>Health Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Behavior Modification: Principles and Applications</td>
<td></td>
</tr>
<tr>
<td>PSYC 355</td>
<td>Industrial Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 377</td>
<td>Tests and Measurements</td>
<td></td>
</tr>
<tr>
<td>PSYC 386</td>
<td>Introduction to Psychotherapy</td>
<td></td>
</tr>
<tr>
<td>PSYC 387</td>
<td>Community Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 575</td>
<td>Internship in Psychology</td>
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</tbody>
</table>

Four units of upper-division psychology electives.  

**Secondary Field (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
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Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
<td>Developmental Psychology</td>
<td></td>
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<tr>
<td>PSYC 382</td>
<td>Psychology of Social Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYC 385</td>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>PSYC 390</td>
<td>Abnormal Psychology</td>
<td></td>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 360</td>
<td>Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 362</td>
<td>Learning and Motivation</td>
<td></td>
</tr>
<tr>
<td>PSYC 363</td>
<td>Biological Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 364</td>
<td>Perception</td>
<td></td>
</tr>
</tbody>
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Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 315</td>
<td>Communication Processes</td>
<td></td>
</tr>
<tr>
<td>PSYC 318</td>
<td>Health Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Behavior Modification: Principles and Applications</td>
<td></td>
</tr>
<tr>
<td>PSYC 355</td>
<td>Industrial Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 377</td>
<td>Tests and Measurements</td>
<td></td>
</tr>
<tr>
<td>PSYC 386</td>
<td>Introduction to Psychotherapy</td>
<td></td>
</tr>
<tr>
<td>PSYC 387</td>
<td>Community Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 47

**Sociology**

(Primary Field 31 units, Secondary Field 16 units)

**Primary Field (31)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>The Study of Society</td>
<td></td>
</tr>
<tr>
<td>SOC 307</td>
<td>Social Research I</td>
<td></td>
</tr>
<tr>
<td>SOC 311</td>
<td>Sociological Theory</td>
<td></td>
</tr>
<tr>
<td>or SOC 360</td>
<td>Social Psychology</td>
<td></td>
</tr>
<tr>
<td>SSCI 499</td>
<td>Senior Seminar</td>
<td></td>
</tr>
</tbody>
</table>

Sixteen units of upper-division sociology electives.  

**Secondary Field (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>The Study of Society</td>
<td></td>
</tr>
<tr>
<td>SOC 360</td>
<td>Social Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Eight units of upper-division sociology electives.  

Total Units: 47

**Gender and Sexuality 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GSS 100</td>
<td>Introduction to Women’s Studies</td>
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</table>

**Secondary Field (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 333</td>
<td>Sex and Gender in Cross-Cultural Perspective</td>
<td></td>
</tr>
<tr>
<td>CJUS 451</td>
<td>Women and Crime</td>
<td></td>
</tr>
<tr>
<td>CJUS 462</td>
<td>Domestic Violence and the Criminal Justice System</td>
<td></td>
</tr>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
<td></td>
</tr>
<tr>
<td>GSS 103</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
<td></td>
</tr>
<tr>
<td>GSS 300</td>
<td>Feminist Research Methods</td>
<td></td>
</tr>
<tr>
<td>GSS 390</td>
<td>Topics in Gender and Sexuality Studies</td>
<td></td>
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<tr>
<td>GSS 450</td>
<td>Queer Theory</td>
<td></td>
</tr>
<tr>
<td>GSS 575B-D</td>
<td>Internship in Gender and Sexuality Programs and Services</td>
<td></td>
</tr>
<tr>
<td>GSS 595B-E</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>HIST 344</td>
<td>Women in U.S. History, 1620-1865</td>
<td></td>
</tr>
<tr>
<td>HIST 345</td>
<td>Women in U.S. History, 1865-Present</td>
<td></td>
</tr>
<tr>
<td>PSCI 340</td>
<td>Sex and Politics</td>
<td></td>
</tr>
<tr>
<td>PSYC 331</td>
<td>The Psychology of Women</td>
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</tr>
<tr>
<td>PSYC 341</td>
<td>Women and Violence</td>
<td></td>
</tr>
<tr>
<td>PSYC 349</td>
<td>The Psychology of Gays and Lesbians</td>
<td></td>
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<tr>
<td>SOC 336</td>
<td>Black Women and Feminism</td>
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<tr>
<td>SOC 444</td>
<td>Sociology of Gender</td>
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</tbody>
</table>

Total Units: 46
Certificate in Islamic and Middle Eastern Studies

Requirements (36 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Core Courses (16)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 358</td>
<td>Peoples of the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
<td>4</td>
</tr>
<tr>
<td>HUM 375</td>
<td>The World of Islam</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 308</td>
<td>Government and Politics of the Middle East</td>
<td>4</td>
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Electives (20)

Twenty units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 303</td>
<td>Prehistory of the Middle East and Europe</td>
</tr>
<tr>
<td>ANTH 334</td>
<td>Anthropology and Film</td>
</tr>
<tr>
<td>ARAB 216</td>
<td>Introduction to Arabic Literary Texts</td>
</tr>
<tr>
<td>ARAB 290</td>
<td>Arabic Literature in Translation</td>
</tr>
<tr>
<td>ARAB 370</td>
<td>Arabic Film and Culture</td>
</tr>
<tr>
<td>ARAB 470A-E</td>
<td>Contemporary Issues in Arab Culture:</td>
</tr>
<tr>
<td>ARAB 471</td>
<td>Media in the Arab World</td>
</tr>
<tr>
<td>ARAB 480</td>
<td>Special Topics in Classical Islamic Texts</td>
</tr>
<tr>
<td>ARAB 481</td>
<td>Special Topics in Contemporary Arabic Literature</td>
</tr>
<tr>
<td>COMM 565</td>
<td>Advanced Topics in Media Studies (when the topic is Islamic/Middle East)</td>
</tr>
<tr>
<td>ENG 319</td>
<td>Studies in Literary Diversity (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)</td>
</tr>
<tr>
<td>HIST 330</td>
<td>Topics in Oral History (when the topic is Middle Eastern)</td>
</tr>
<tr>
<td>HIST 384</td>
<td>Modern Middle East</td>
</tr>
<tr>
<td>HIST 480</td>
<td>History of Christianity I</td>
</tr>
<tr>
<td>HIST 485</td>
<td>Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 486</td>
<td>Modern Iran</td>
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<tr>
<td>HIST 487</td>
<td>Topics in Modern Middle Eastern History</td>
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<tr>
<td>HIST 491</td>
<td>Nationalism and Conflict in the Middle East</td>
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<tr>
<td>HIST 492</td>
<td>U.S. Media and the Middle East</td>
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<tr>
<td>HIST 493</td>
<td>Iran-U.S. Relations</td>
</tr>
</tbody>
</table>

Total Units 36

NOTE: 600-level courses are not available for undergraduate students.
Certificate in Native Nations/Indigenous Peoples Studies

Requirements (20 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

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

Certificate Requirements (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>SOC 545</td>
<td>Indigenous Peoples (or its equivalent as approved by a certificate coordinator.)</td>
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<tr>
<td></td>
<td>Eight units chosen from:</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Indians of North America</td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Indians of the Southwest</td>
</tr>
<tr>
<td>ANTH 577B-E</td>
<td>Internship in Archaeology (with approval by a certificate coordinator)</td>
</tr>
<tr>
<td>HIST 371</td>
<td>California Indian History</td>
</tr>
<tr>
<td>HIST 342</td>
<td>American Indian History</td>
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<tr>
<td>HIST 575</td>
<td>Internship in History (with approval by a certificate coordinator)</td>
</tr>
<tr>
<td>SOC 525</td>
<td>Indian Nations and Native America</td>
</tr>
<tr>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
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<tr>
<td></td>
<td>Electives. Eight units chosen from:</td>
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<tr>
<td>ANTH 305</td>
<td>North American Prehistory</td>
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<tr>
<td>ANTH 312</td>
<td>Historical Archaeology</td>
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<tr>
<td>or HIST 312</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>ANTH 314</td>
<td>Arch of California</td>
</tr>
<tr>
<td>or ART 314</td>
<td>The Art of Indigenous Peoples</td>
</tr>
<tr>
<td>ANTH 315</td>
<td>Archaeology of the Southwest</td>
</tr>
<tr>
<td>ANTH 323</td>
<td>Native North American Art</td>
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<tr>
<td>or ART 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>ANTH 324</td>
<td>Pre-Columbian Art</td>
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<tr>
<td>or ART 324</td>
<td>Pre-Columbian Art</td>
</tr>
<tr>
<td>ANTH 375</td>
<td>Museum Methods</td>
</tr>
<tr>
<td>or HIST 375</td>
<td>Museum Methods</td>
</tr>
</tbody>
</table>

Total Units: 20

Up to four units of outside coursework may be substituted with the approval of a certificate coordinator.
Department of Anthropology

Bachelor of Arts
- Anthropology

Minor
- Anthropology

Certificate Programs
- Applied Cultural Anthropology
- Archaeology
- Latin American Studies
- Museum Studies

The study of anthropology promotes an understanding of self and all humankind by exploring the human condition at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department.

Human physical and cultural evolution, the distribution and significance of cultural differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, cultural anthropology, archaeology and prehistory, and linguistics.

Participation in The California State University’s International Programs (p. 14) is one way students can experience other cultures first-hand.

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, 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.

Current Faculty
Russell J. Barber, Professor
B.A. 1972, University of Vermont
A.M. 1974, Ph.D. 1979, Harvard University

Kathleen M. Nadeau, Professor
B.S. 1976, Fitchburg State University

Undergraduate Degree

Bachelor of Arts
- Anthropology (p. 726)

Minor
- Anthropology (p. 729)

Certificate Programs
- Applied Cultural Anthropology (p. 726)
- Archaeology (p. 727)
- Latin American Studies (p. 727)
- Museum Studies (p. 728)

Courses

ANTH 100. Introduction to Anthropology: Human Evolution. 4 Units.
(GE=D4)
Human biological and social evolution through time.

ANTH 102. Introduction to Anthropology: Culture and Society. 4 Units.
(GE=D4)
Structure and dynamics of human cultural experience: comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies.

ANTH 140. World Civilizations I, the Rise of Civilization. 4 Units.
(GE=D3)
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. (Offered as ANTH 140 and HIST 140, students may not receive credit for both.).
ANTH 200. Biological Anthropology Laboratory. 1 Unit.
Prerequisite/Corequisite: ANTH 100
Human skeletal anatomy and skeletal biology (osteology and a forensics),
reviews of the fossil evidence for primate and human evolution, and
exercises in genetics. Three hours laboratory.

ANTH 301. Anthropological Theory. 4 Units.
Examination of major theoretical trends and debates that shaped the
discipline of anthropology past and present.

ANTH 302. African Archaeology. 4 Units.
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.

ANTH 303. Prehistory of the Middle East and Europe. 4 Units.
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.

ANTH 305. North American Prehistory. 4 Units.
Prehistory of North America from earliest times to the dawn of historic
contact with the Old World after 1492.

ANTH 306. Aztecs, Maya and their Predecessors. 4 Units.
The origin, spread and decline of pre-Columbian civilizations in Mexico
and adjacent areas.

ANTH 307. Incas and their Predecessors. 4 Units.
The origin, spread and decline of pre-Columbian civilizations in Peru and
adjacent areas.

ANTH 312. Historical Archaeology. 4 Units.
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. (Offered as ANTH 312 and
HIST 312, students may not receive credit for both.).

ANTH 314. Arch of California. 4 Units.
The Prehistoric Cultures of California, their origins, character and
relationships. (4 units.

ANTH 315. Archaeology of the Southwest. 4 Units.
The prehistoric cultures of the American Southwest, their origins,
characteristics and relationships.

ANTH 316. Archival Practices. 4 Units.
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 HIST 316. Students may not receive
credit for both.

ANTH 317. Community Engaged Research Methods. 5 Units.
Apply ethnographic research methods such as participant-observation in
a classroom and community setting. Students will be required to volunteer
for an off-campus organization; however, the faculty member reserves the
right to assign an alternate assignment as needed. Four hours lecture and
three hours lab. May not be repeated for credit.

ANTH 318. Introduction to Cultural Resource Management. 4 Units.
General overview of the field of Cultural Resource Management in
Museum Studies, Anthropology and Public History. Also offered as HIST
318. Students may not receive credit for both.

ANTH 319. Experimental Archaeology and Ethnoarchaeology. 5 Units.
Prerequisites: consent of instructor
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.

ANTH 320. Archaeological Survey and Excavation. 5 Units.
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.

ANTH 321. Archaeological Laboratory Analysis. 5 Units.
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.

ANTH 322. Human Osteology and Functional Anatomy. 5 Units.
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.

ANTH 323. Native North American Art. 4 Units.
Art of American Indian and Eskimo peoples north of Mexico, from earliest
prehistoric to modern times. (Also offered as ART 323. Students may not
receive credit for both.).

ANTH 324. Pre-Columbian Art. 4 Units.
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.).

ANTH 325. Human Biological Variance and the Concept of Race. 4 Units.
(GE=G.2)
An inquiry into past and present interpretations of the significance of
human physical differences.
ANTH 326. Human Origins. 4 Units.
Prerequisites: ANTH 100
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.

ANTH 327. Primate Evolution and Ecology. 4 Units.
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.

ANTH 328. Forensic Anthropology and Crime. 4 Units.
Techniques of biological anthropology as applied to the investigation of crime.

ANTH 330. Cross-Cultural Child-Rearing Practices. 4 Units.
Cross-cultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture.

ANTH 331. Anthropology of Human Development. 4 Units.
A cross-cultural perspective on human development and the processes of personality formation and cultural transmission.

ANTH 332. Cross-Cultural Perspectives on Aging. 4 Units.
A cross-cultural examination of aging and the roles, statuses, opportunities, and treatment of the aged, with an emphasis on non-Western societies.

ANTH 333. Sex and Gender in Cross-Cultural Perspective. 4 Units.
(GE=G2)
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.

ANTH 334. Anthropology and Film. 4 Units.
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.

ANTH 340. Anthropology of Health, Illness and Healing. 4 Units.
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. Formerly ANTH 466.

ANTH 341. Globalization and Culture. 4 Units.
An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials. formerly ANTH 470.

ANTH 342. Environmental Anthropology. 4 Units.
Examines the social and political dimensions of the environment. Through ethnographic case studies, a range of topics including culture, power, sustainability, resource economies, and the links between race, class, gender and the environment.

ANTH 343. Magic, Religion and Science. 4 Units.
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. Formerly ANTH 480.

ANTH 344. Applied Anthropology and Social Policy. 4 Units.
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. Formerly ANTH 485.

ANTH 345. Urban Anthropology. 4 Units.
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. Formerly ANTH 493.

ANTH 346. Indigenous Politics. 4 Units.
Analysis of contemporary and/or historical aspects of issues relating to indigenous peoples. Topics social movements, rights, representation, genocide, feminism, cultural identity, bilingual education, development, among others may be included.

ANTH 351. Indians of North America. 4 Units.
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.

ANTH 352. Indians of the Southwest. 4 Units.
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.

ANTH 354. Cultures of Mexico and Central America. 4 Units.
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.

ANTH 356. Cultures of South America. 4 Units.
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.
ANTH 357. African Societies. 4 Units.
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.

ANTH 358. Peoples of the Middle East. 4 Units.
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.

ANTH 362. Asian Cultures and Societies. 4 Units.
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.

ANTH 365. Asian American Cultures. 4 Units.
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.

ANTH 366. Filipino Cultural Expressions. 2 Units.
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.

ANTH 375. Museum Methods. 4 Units.
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.).

ANTH 376. Exhibit Design. 4 Units.
Prerequisites: HIST 323 and 325 or consent of instructor
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. (Offered as ANTH 376 and HIST 376, students may not receive credit for both.).

ANTH 380. Gender and Language. 4 Units.
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.

ANTH 381. California Indian Linguistic Anthropology. 4 Units.
Analysis of how California Indian languages inform world view and organize beliefs and how social practices of language use shape communication, social life, and sociocultural identity in general and in California Indian contexts. Formerly a topic under ANTH 390.

ANTH 386. Philippine Cultural Expressions. 4 Units.
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.

ANTH 390. Selected Topics in Anthropology. 4 Units.
An anthropological examination of a selected topic. May be repeated for credit as topics change.

ANTH 400. Archaeological Theory and Method. 4 Units.
Prerequisites: one course from section "Archaeology" of the BA in Anthropology or graduate standing
In-depth exploration of archaeological theories and methods and their application to our understanding of the human past. Formerly ANTH 300.

ANTH 410. Pleistocene Human Evolution. 4 Units.
Prerequisites: ANTH 301 or graduate standing
Methods and theories applied to analyzing Neanderthals and anatomically modern human skeletal and archaeological remains.

ANTH 420. Human Rights, Violence & Cult. 4 Units.
Prerequisites: ANTH 301 or graduate standing
Explore and critically evaluate a range of controversial topics including cultural violence, ethnic cleansing, human rights, the nation-state and military dictatorships; memory and reconciliation processes; and indigenous justice systems.

ANTH 472. Colonial and Postcolonial Anthropology. 4 Units.
Prerequisites: ANTH 301 or graduate standing
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.

ANTH 500. Senior Seminar in Anthropology. 4 Units.
Prerequisites: ANTH 301 or consent of instructor
Major anthropological theories as applied to a topical area of anthropological study. Perspectives from cultural anthropology, archaeology, bioanthropology, and linguistics will be discussed.
ANTH 575B. Internship in Anthropology. 2 Units.
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. 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.

ANTH 575C. Internship in Anthropology. 3 Units.
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. 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.

ANTH 575D. Internship in Anthropology. 4 Units.
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. 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. (2-5 units.)

ANTH 575E. Internship in Anthropology. 5 Units.
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. 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.

ANTH 576B. Internship in Museum Studies. 2 Units.
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. Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit.

ANTH 576C. Internship in Museum Studies. 3 Units.
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. Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit.

ANTH 576D. Internship in Museum Studies. 4 Units.
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. Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit.

ANTH 576E. Internship in Museum Studies. 5 Units.
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. Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit.

ANTH 577B. Internship in Archaeology. 2 Units.
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. 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.

ANTH 577C. Internship in Archaeology. 3 Units.
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. 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.

ANTH 577D. Internship in Archaeology. 4 Units.
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. 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.

ANTH 577E. Internship in Archaeology. 5 Units.
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. 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.
ANTH 578B. Internship in Applied Cultural Anthropology. 2 Units.
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
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.

ANTH 578C. Internship in Applied Cultural Anthropology. 3 Units.
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
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.

ANTH 578D. Internship in Applied Cultural Anthropology. 4 Units.
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
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.

ANTH 578E. Internship in Applied Cultural Anthropology. 5 Units.
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
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.

ANTH 585. Fieldwork in Cultural Anthropology. 4 Units.
Prerequisites: consent of instructor
Supervised design, execution and analysis of an individualized ethnographic field project.

ANTH 590B. Selected Topics in Anthropology. 2 Units.
An anthropological examination of a selected topic. May be repeated for credit as topics change.

ANTH 590C. Selected Topics in Anthropology. 3 Units.
An anthropological examination of a selected topic. May be repeated for credit as topics change.

ANTH 590D. Selected Topics in Anthropology. 4 Units.
An anthropological examination of a selected topic. May be repeated for credit as topics change.

ANTH 595B. Independent Study. 2 Units.
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
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.

ANTH 595C. Independent Study. 3 Units.
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
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.

ANTH 595D. Independent Study. 4 Units.
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
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.

ANTH 595E. Independent Study. 5 Units.
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
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.

ANTH 597. Senior Honors Project. 5 Units.
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.

ANTH 600. Proseminar in Anthropology. 4 Units.
Prerequisites: consent of instructor
Survey of the concepts and methods that anthropologists employ to study, describe and analyze globalization.

ANTH 666. Cultural Resource Management. 2 Units.
Study of cultural resources in the context of planning. Focus will be on data sources, environmental review and historic evaluation.

ANTH 695B. Independent Graduate Study. 2 Units.
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
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.
ANTH 695C. Independent Graduate Study. 3 Units.
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.
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.

ANTH 695D. Independent Graduate Study. 4 Units.
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.
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.

ANTH 695E. Independent Graduate Study. 5 Units.
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.
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.

Bachelor of Arts in Anthropology
Requirements (66 units)
Total units required for graduation: 180

Requirements for the B.A. in Anthropology

ANTH 100 Introduction to Anthropology: Human Evolution 4
ANTH 102 Introduction to Anthropology: Culture and Society 4
ANTH 200 Biological Anthropology Laboratory 1
ANTH 301 Anthropological Theory 4
ANTH 500 Senior Seminar in Anthropology 4

Archaeology
Eight units chosen from:
ANTH 302 African Archaeology
ANTH 303 Prehistory of the Middle East and Europe
ANTH 305 North American Prehistory
ANTH 306 Aztecs, Maya and their Predecessors
ANTH 307 Incas and their Predecessors
ANTH 312 Historical Archaeology
or HIST 312 Historical Archaeology
ANTH 314 Arch of California
ANTH 315 Archaeology of the Southwest
ANTH 324 Pre-Columbian Art
or ART 324 Pre-Columbian Art

Biological Anthropology
Eight units chosen from:
ANTH 325 Human Biological Variance and the Concept of Race

ANTH 326 Human Origins
ANTH 327 Primate Evolution and Ecology
ANTH 328 Forensic Anthropology and Crime

Socio-cultural Anthropology
Twelve units chosen from:
ANTH 323 Native North American Art
or ART 323 Native North American Art
ANTH 333 Sex and Gender in Cross-Cultural Perspective
ANTH 334 Anthropology and Film
ANTH 340 Anthropology of Health, Illness and Healing
ANTH 341 Globalization and Culture
ANTH 342 Environmental Anthropology
ANTH 343 Magic, Religion and Science
ANTH 344 Applied Anthropology and Social Policy
ANTH 345 Urban Anthropology
ANTH 346 Indigenous Politics

Linguistic Anthropology
Four units chosen from:
ANTH 380 Gender and Language
ANTH 381 California Indian Linguistic Anthropology
ANTH 388 Language and Culture

Laboratory Analysis
Five units chosen from:
ANTH 317 Community Engaged Research Methods
ANTH 319 Experimental Archaeology and Ethnoarchaeology
ANTH 320 Archaeological Survey and Excavation
ANTH 321 Archaeological Laboratory Analysis
ANTH 322 Human Osteology and Functional Anatomy

Anthropology Culture Areas
Eight units chosen from:
ANTH 351 Indians of North America
ANTH 352 Indians of the Southwest
ANTH 354 Cultures of Mexico and Central America
ANTH 356 Cultures of South America
ANTH 357 African Societies
ANTH 358 Peoples of the Middle East
ANTH 362 Asian Cultures and Societies
ANTH 365 Asian American Cultures

Advanced Theory
Four units chosen from:
ANTH 400 Archaeological Theory and Method
ANTH 410 Pleistocene Human Evolution
ANTH 420 Human Rights, Violence & Cult
ANTH 472 Colonial and Postcolonial Anthropology

Total Units 66

Certificate in Applied Cultural Anthropology
Requirements (20 units)
Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Admission to the Certificate

Consultation with a faculty advisor in anthropology is required before enrolling in upper-division courses.

Certificate Requirements

ANTH 102 Introduction to Anthropology: Culture and Society 4

A minimum of four units chosen from:

ECON 250 Statistics for Economists 4

PSYC 210 Psychological Statistics

ADMN 210 Applied Business Statistics

ANTH 344 Applied Anthropology and Social Policy

ANTH 578B-D Internship in Applied Cultural Anthropology

A minimum of twelve units of upper-division social and cultural anthropology courses chosen in consultation with an advisor.

Total Units 20

Certificate in Archaeology

Requirements (35 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

ANTH 320 Archaeological Survey and Excavation 5

or ANTH 577B-E Internship in Archaeology

or ANTH 321 Archaeological Laboratory Analysis

ANTH 400 Archaeological Theory and Method 4

Eight units chosen from:

- ANTH 302 African Archaeology
- ANTH 303 Prehistory of the Middle East and Europe
- ANTH 305 North American Prehistory
- ANTH 306 Aztecs, Maya and their Predecessors
- ANTH 307 Incas and their Predecessors
- ANTH 312 Historical Archaeology
- or HIST 312 Historical Archaeology
- ANTH 315 Archaeology of the Southwest

GEOG 201 Map Interpretation 4

GEOG 202 Introduction to Geographic Information Systems and Cartography 5

A minimum of four units chosen from:

- GEOG 306 Remote Sensing of the Environment
- GEOG 308 Advanced Geographic Information Systems
- GEOG 480 Geomorphology
- GEOL 301 Introduction to Geologic Mapping
- GEOL 330 Sedimentary Petrology
- GEOL 350 Paleontology

Total Units 35

Certificate in Latin American Studies

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Thirty-two units chosen from the following: (No more than twelve units 32 may be taken from any one discipline.)

ANTH 306 Aztecs, Maya and their Predecessors
ANTH 307 Incas and their Predecessors
ANTH 324 Pre-Columbian Art
or ART 324 Pre-Columbian Art
ANTH 354 Cultures of Mexico and Central America
ANTH 356 Cultures of South America
Certificate in Museum Studies

Requirements (34 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 312</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>or HIST 312</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>ANTH 315</td>
<td>Archaeology of the Southwest</td>
</tr>
<tr>
<td>ANTH 320</td>
<td>Archaeological Survey and Excavation</td>
</tr>
<tr>
<td>ANTH 321</td>
<td>Archaeological Laboratory Analysis</td>
</tr>
<tr>
<td>ANTH 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>or ART 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>ANTH 324</td>
<td>Pre-Columbian Art</td>
</tr>
<tr>
<td>or ART 324</td>
<td>Pre-Columbian Art</td>
</tr>
<tr>
<td>ANTH 400</td>
<td>Archaeological Theory and Method</td>
</tr>
</tbody>
</table>

Group B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 351</td>
<td>Indians of North America</td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Indians of the Southwest</td>
</tr>
<tr>
<td>ANTH 354</td>
<td>Cultures of Mexico and Central America</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>African Societies</td>
</tr>
<tr>
<td>ANTH 358</td>
<td>Peoples of the Middle East</td>
</tr>
<tr>
<td>ANTH 362</td>
<td>Asian Cultures and Societies</td>
</tr>
<tr>
<td>ANTH 365</td>
<td>Asian American Cultures</td>
</tr>
<tr>
<td>ART 221</td>
<td>Art History: Prehistoric Times through the Middle Ages</td>
</tr>
<tr>
<td>ART 222</td>
<td>Art History: Africa, Asia, the Americas and Oceania</td>
</tr>
<tr>
<td>ART 223</td>
<td>Art History: Renaissance to the Present</td>
</tr>
<tr>
<td>ART 306</td>
<td>Greek and Roman Art</td>
</tr>
<tr>
<td>ART 311</td>
<td>Art of the United States to the End of the Nineteenth Century</td>
</tr>
<tr>
<td>ART 314</td>
<td>The Art of Indigenous Peoples</td>
</tr>
<tr>
<td>ART 316</td>
<td>Arts of the Ancient Near East and Egypt</td>
</tr>
<tr>
<td>ART 321</td>
<td>Renaissance Art</td>
</tr>
<tr>
<td>ANTH 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>or ART 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>ANTH 324</td>
<td>Pre-Columbian Art</td>
</tr>
<tr>
<td>or ART 324</td>
<td>Pre-Columbian Art</td>
</tr>
<tr>
<td>ART 327</td>
<td>Baroque and Rococo Art</td>
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<tr>
<td>ART 328</td>
<td>Mexican Art</td>
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<tr>
<td>ART 329</td>
<td>Chicano Art</td>
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</table>

Group C

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ART 410</td>
<td>Studies in Art History</td>
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<tr>
<td>ART 423</td>
<td>Nineteenth Century European Art</td>
</tr>
</tbody>
</table>

Any upper-division history course except the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 318</td>
<td>Introduction to Cultural Resource Management</td>
</tr>
<tr>
<td>HIST 375</td>
<td>Museum Methods</td>
</tr>
<tr>
<td>HIST 376</td>
<td>Exhibit Design</td>
</tr>
<tr>
<td>HIST 395</td>
<td>Topics in History</td>
</tr>
<tr>
<td>HIST 396</td>
<td>Topics in History</td>
</tr>
<tr>
<td>HIST 399A</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>HIST 399B</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>HIST 575</td>
<td>Internship in History</td>
</tr>
<tr>
<td>HIST 595A-D</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>
Minor in Anthropology

Requirements (28 units)

Requirements for a minor in Anthropology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 100</td>
<td>Introduction to Anthropology: Human Evolution</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Twenty upper-division units chosen in consultation with an advisor.</td>
<td>20</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>
Department of Criminal Justice

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

Certificate Programs

- Criminal Justice
- Paralegal Studies

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 pre-service students and in-service 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.

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.

Departmental Honors

Students majoring in criminal justice are eligible to receive honors in criminal justice at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;

3. An overall undergraduate grade point average of 3.0 ("B");

Students interested in receiving this recognition must initiate the process by filing a formal application with the chair of the Criminal Justice Department.

Current Faculty

Gisela Bichler, Professor
B.A. 1994, Simon Frazier University
M.A. 1996, Ph.D. 2000, Rutgers University

Christine N. Famega, Associate Professor
B.A. 1993, University of Manitoba
M.A. 1996, Minot State University
Ph.D. 2003, University of Cincinnati

Larry K. Gaines, Professor, Chair
B.S. 1971, M.S. 1972, Eastern Kentucky University
Ph.D. 1975, Sam Houston State University

Janine Kremling, Assistant Professor
M.A. 2001, University of Leipzig
Ph.D. 2010, University of South Florida

Bryan Levin, Professor
B.A. 1989, University of Pennsylvania
J.D. 1992, Stanford Law School

Nerea Marteache, Assistant Professor
Ph.D., Rutgers School of Criminal Justice, 2012

Alexis Norris, Assistant Professor
B.A. 2005, Hampton University
M.A. 2008, Michigan State University, Lansing

Deborah A. Parsons, Associate Professor, Assistant Dean
B.A. 1990, University of California, Irvine
M.S. 1992, California State University, Long Beach
Ph.D. 1996, University of California, Irvine

John Reitzel, Assistant Professor
B.A. 2001, SUNY, Cortland
M.A. 2003, Ph.D. 2006, University of Florida, Gainesville

Andrea Schoepfer, Associate Professor

Pamela J. Schram, Professor, Associate Dean
B.S. 1988, Loyola University of Chicago
M.A. 1990, Rutgers University
Ph.D. 1996, Michigan State University

Stephen G. Tibbetts, Professor
B.A. 1991, University of Florida
M.A. 1994, Ph.D. 1997, University of Maryland

Douglas Weiss, Assistant Professor
B.S. 2002, Illinois Institute of Technology
M.A. 2008, University of Southern California

Emeriti

Frances Coles, Professor
David Shichor, Professor
Franklin P. Williams III, Professor

Undergraduate Degrees

Bachelor of Arts
- Criminal Justice (p. 737) with additional options in:
  - Crime Analysis (p. 738)
  - Paralegal Studies (p. 739)

Graduate Degrees
- Master of Arts in Criminal Justice (p. 739)

Minors
- Criminal Justice (p. 741)
- Paralegal Studies (p. 741)

Certificate Programs
- Criminal Justice (p. 741)
- Paralegal Studies (p. 741)

Criminal Justice Courses

CJUS 101. Introduction to the Criminal Justice System. 4 Units.
Prerequisites: Must be declared major or minor in criminal justice or social work
A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized.

CJUS 102. Criminal Law. 4 Units.
Historical development of criminal law and its contemporary application. Focus on the interrelationship between criminal law and the criminal justice system.

CJUS 106. Introduction to Criminal Investigation. 4 Units.
Examination of crime, evidence and police procedures in investigating crime. Investigation of crime, including organized crime, street crime and white collar crime.

CJUS 311. Research Methods in Criminal Justice. 4 Units.
Prerequisites: CJUS 320
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.

CJUS 312. Statistics in Criminal Justice. 4 Units.
Prerequisites: CJUS 311 and MATH 110 or MATH 115 or equivalent
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.

CJUS 320. Theories of Crime and Delinquency. 4 Units.
Causes of crime and delinquency with emphasis on sociological factors.

CJUS 330. Correctional Theory and Institutions. 4 Units.
Prerequisites: CJUS 320 with a grade of C- or better
History and theory of punishment; overview of history of correctional institutions; analysis and evaluation of contemporary institutional corrections; consideration of research concerning correctional institutions.

CJUS 340. Police and Police Systems. 4 Units.
Prerequisites: CJUS 320 with a grade of C- or better
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.

CJUS 340S. Police and Police Systems. 4 Units.
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.

CJUS 354. Victimology. 4 Units.
Prerequisites: CJUS 320
Victim role, criminal-victim relationships, and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation.

CJUS 370. Law and the Courts. 4 Units.
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.

CJUS 430. Correctional Administration. 4 Units.
Prerequisites: CJUS 330 or equivalent
In-depth study of the administration and management of correctional agencies. Emphasis on organizational structure, functions and behavioral processes.

CJUS 431. Community Corrections. 4 Units.
Prerequisites: CJUS 330
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.
CJUS 435. Correctional Counseling. 4 Units.
Prerequisites: CJUS 330
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.

CJUS 440. Police Administration. 4 Units.
Prerequisites: CJUS 340 or equivalent
In-depth study of the administration and management of law enforcement agencies. Emphasis on organizational structure, functions and behavioral processes.

CJUS 441. Community Policing. 4 Units.
Prerequisites: CJUS 340 or equivalent
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.

CJUS 451. Women and Crime. 4 Units.
(GE=G2)
A critical study of women as offenders, victims and workers within the criminal justice system.

CJUS 452. Occupational and Corporate Crime. 4 Units.
Definition, history, extent, causes, consequences and enforcement methods regarding white collar, occupational and corporate crime in business, the professions, corporations, unions and government.

CJUS 453. Gangs. 4 Units.
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.

CJUS 455. Forensic Profiling. 4 Units.
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.

CJUS 460. Alcohol, Drugs, and the Criminal Justice System. 4 Units.
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.

CJUS 462. Domestic Violence and the Criminal Justice System. 4 Units.
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.

CJUS 465. Hate Crime and Law Policy. 4 Units.
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.

CJUS 466. Justice and the Media. 4 Units.
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.

CJUS 470. Environmental Crime Prevention. 4 Units.
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.

CJUS 504. Criminal Procedure. 4 Units.
Prerequisites: CJUS 370
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.

CJUS 550. Crime and Intelligence Analysis. 5 Units.
Prerequisites: CJUS 311 and CJUS 312 or equivalent and CJUS 470
Analysis of crime and intelligence data with current computer applications in order to assist criminal investigations, examine crime patterns and resolve community crime problems. Analytical techniques include centrality and key player metrics (social network analysis), crime hotspots (geographic information technology), telephone toll analysis, crime series investigation, forecasting and temporal analysis.

CJUS 554. Terrorism. 4 Units.

CJUS 555. Homeland Security. 4 Units.
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.

CJUS 556. Transnational Organized Crime. 4 Units.
Prerequisites: CJUS 320
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.

CJUS 570. Crime in Public Spaces. 4 Units.
Prerequisites: CJUS 311
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.
CJUS 571. Advanced Social Network Analysis. 4 Units.
Prerequisites: CJUS 550
Applied network analysis provides visual and statistical procedures for examining the structural integrity of criminal networks - transnational illicit markets, corporate interlock, terrorism, co-offending and serial crime investigation. Analytic techniques covered include: centrality analysis, network fragmentation methods, egonets, affiliation networks, and advanced, multivariate modeling techniques.

CJUS 575. Internship in Criminal Justice. 4 Units.
Prerequisites: completion of four of six upper division criminal justice requirements, 2.5 grade point average in criminal justice and consent of instructor. Supervised work and study in private or public organizations. Open only to criminal justice majors. May be repeated for credit for a total of eight units; only four may be used in the major. Graded credit/no credit. Prerequisite: consent of internship coordinator and 2.5 grade point average on major courses.
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. Graded credit/no credit. (4 units).

CJUS 580. Juvenile Justice System. 4 Units.
Prerequisites: CJUS 320
History, development and theory of the juvenile justice system.

CJUS 585. Criminality Across the Life Course. 4 Units.
Prerequisites: CJUS 320
Examination of factors influencing criminality across the life span from prenatal to elderly stages of life; emphasis on physiological, developmental, social and environmental factors.

CJUS 590A. Topics in Criminal Justice. 1 Unit.
Prerequisites: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change.

CJUS 590B. Topics in Criminal Justice. 2 Units.
Prerequisites: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change.

CJUS 590C. Topics in Criminal Justice. 3 Units.
Prerequisites: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change.

CJUS 590D. Topics in Criminal Justice. 4 Units.
Prerequisites: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change.

CJUS 595A. Independent Study. 1 Unit.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595B. Independent Study. 2 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595C. Independent Study. 3 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595D. Independent Study. 4 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595E. Independent Study. 5 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595F. Independent Study. 6 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595G. Independent Study. 7 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 595H. Independent Study. 8 Units.
Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chairs 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
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.

CJUS 596. Peer Advising in Criminal Justice. 2 Units.
Prerequisites: grade point average of 3.0, consent of instructor and department approval
Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. Six hours scheduled per week. 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.

CJUS 597. Senior Honors Project. 4 Units.
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.

CJUS 598. Integrative Studies in Criminal Justice. 4 Units.
Prerequisites: CJUS 320 and CJUS 311
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.
CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice. 4 Units.
Prerequisites: CJUS 311 with a grade of C or better or consent of instructor
The application of scientific methods used as a means for inquiry, description and analysis of crime and the behavior of the criminal justice system.

CJUS 605. Proseminar in Criminal Justice. 4 Units.
Overview of contemporary research and literature across the criminal justice field. Topics will include current writings and research on crime, police, courts and corrections.

CJUS 606. Statistical Analysis in Criminal Justice. 4 Units.
Prerequisites: CJUS 312 with a grade of C or better or consent of instructor
Quantitative analytical techniques for criminal justice data. Emphasis will be placed on using and interpreting nonparametric and multivariate statistics.

CJUS 607. Applying Criminological Theory to Criminal Justice. 4 Units.
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.

CJUS 608. Crime, Criminals and Victims. 4 Units.
Relationships between general crime trends and emerging patterns of criminal activity, and the composition of the offender and victim populations.

CJUS 629. Minorities in the Criminal Justice System. 4 Units.
Roles and treatment of minority populations within the criminal justice system, including historical background, personnel and offender issues, current problems, needs and future directions.

CJUS 630. Legal Issues in Criminal Justice. 4 Units.
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.

CJUS 631. Seminar in Corrections. 4 Units.
Exploration of topics in correctional administration including public opinion, civil rights, court intervention, system reform and the management of correctional personnel.

CJUS 632. Seminar in Policing. 4 Units.
Exploration of issues in police administration including public opinion, civil rights, court interventions, system reform and the management of police personnel.

CJUS 650A. Directed Area Studies in Criminal Justice. 1 Unit.
Prerequisites: consent of instructor
Advanced study in a specific area selected by the student with the approval of the students committee.

CJUS 650B. Directed Area Studies in Criminal Justice. 2 Units.
Prerequisites: consent of instructor
Advanced study in a specific area selected by the student with the approval of the students committee.

CJUS 650C. Directed Area Studies in Criminal Justice. 3 Units.
Prerequisites: consent of instructor
Advanced study in a specific area selected by the student with the approval of the students committee.

CJUS 650D. Directed Area Studies in Criminal Justice. 4 Units.
Prerequisites: consent of instructor
Advanced study in a specific area selected by the student with the approval of the students committee.

CJUS 686. Graduate Review in Criminal Justice. 1 Unit.
Prerequisites: advancement to candidacy
Assessment of graduate students knowledge and understanding of criminal justice theory and practice. Required of all graduate students in criminal justice masters program. Graded credit/no credit.

CJUS 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
CJUS 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 698G. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 699A. Thesis I. 4 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the students committee. CJUS 699B must be completed before credit will be awarded for 699A. Graded credit/no credit.

CJUS 699B. Thesis II. 4 Units.
Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the students committee. CJUS 699B must be completed before credit will be awarded for 699A. Graded credit/no credit.
CJUS 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing. An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Paralegal Studies Courses

PLST 100. Introduction to Law. 4 Units.
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.

PLST 370. Wills, Estates and Trusts. 4 Units.
Prerequisites: PLST 385 and 386 or consent of instructor. 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.

PLST 371. Contract Law. 4 Units.
Prerequisites: PLST 385 and 386 or consent of instructor. 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.

PLST 372. Tort Law. 4 Units.
Prerequisites: PLST 385 and PLST 386 or consent of instructor. Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations.

PLST 373. Property Law. 4 Units.
Prerequisites: PLST 385 and PLST 386 or consent of instructor. 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.

PLST 376. Family Law. 4 Units.
Prerequisites: PLST 385 and PLST 386 or consent of instructor. Formation and dissolution of the family unit: custody, support, property rights and obligations.

PLST 377. Fundamentals of Litigation. 4 Units.
Prerequisites: PLST 385 and 386 or consent of instructor. 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.

PLST 378. Corporate Law. 4 Units.
Prerequisites: PLST 385 and 386 or consent of instructor. Legal status of the corporate entity, corporate structure and distribution of powers and duties among shareholders, directors and officers.

PLST 385. Legal Research. 4 Units.
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.

PLST 386. Legal Writing. 4 Units.
Prerequisites: PLST 385 or consent of instructor. 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.

PLST 575. Internship in Paralegal Studies. 4 Units.
Prerequisites: completion of PLST 385 and PLST 386, 16 additional units of paralegal certificate course work, and consent of paralegal studies coordinator. 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.

PLST 590. Topics in Paralegal Studies. 4 Units.
Prerequisites: PLST 385 and 386. Selected current issues and topics in the paralegal field. May be repeated for credit as topics change.

PLST 595A. Independent Study. 1 Unit.
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 advanced of the quarter in which the course is to be taken. Special topics involving library and/field research. May be repeated for credit for a total of eight units; only four may be used in the major.

PLST 595B. Independent Study. 2 Units.
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 advanced of the quarter in which the course is to be taken. Special topics involving library and/field research. May be repeated for credit for a total of eight units; only four may be used in the major.

PLST 595C. Independent Study. 3 Units.
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 advanced of the quarter in which the course is to be taken. Special topics involving library and/field research. May be repeated for credit for a total of eight units; only four may be used in the major.

PLST 595D. Independent Study. 4 Units.
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 advanced of the quarter in which the course is to be taken. Special topics involving library and/field research. May be repeated for credit for a total of eight units; only four may be used in the major.
Bachelor of Arts in Criminal Justice

Requirements (68 units)

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

Completion of the following:

General Education Basic Skills in English (4)
One (1) of the following: 4
- ENG 104A Stretch Composition III
or ENG 104B Stretch Composition III for Multilingual Students
- ENG 106A Accelerated Stretch Composition II
or ENG 106B Accelerated Stretch Composition II for Multilingual Students
- ENG 107 Advanced First-Year Composition

General Education Basic Skills in Oral Communication (4)
COMM 120 Oral Communication 4

General Education Basic Skills in Mathematics (4)
One (1) of the following: 4
- 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 (4)
One (1) of the following: 4
- PSYC 105 Critical Thinking Through Problems Analysis
- SOC 180 Critical Thinking about Social Problems
- MATH 180 Critical Thinking Through Applications of Mathematical Logic
- PHIL 105 Critical Thinking Through Argument Analysis

Total Units 16

Students are encouraged to take the above classes prior to taking the Criminal Justice classes below.

CJUS 101 Introduction to the Criminal Justice System 4
CJUS 102 Criminal Law 4
CJUS 320 Theories of Crime and Delinquency (with a grade no lower than “C-” (1.7)) 4

With the exception of CJUS 320, the grade earned in each of the above courses must be no lower than “C” (2.0) and a GPA in the pre major no lower than a 2.3

A student may enroll in a criminal justice class three times. If a student does not successfully complete the course after three enrollments, the student must change majors if the course is a required course. Students may appeal to the department academic standards committee.

Transfer students and students changing their major to Criminal Justice must have a minimum cumulative GPA of 2.5.

Requirements for the B.A. in Criminal Justice

Lower-division requirements, prerequisites for upper-division courses (8)
CJUS 101 Introduction to the Criminal Justice System 4
CJUS 102 Criminal Law 4

Upper-division requirements (24)
CJUS 311 Research Methods in Criminal Justice 4
CJUS 312 Statistics in Criminal Justice 4
CJUS 320 Theories of Crime and Delinquency 4
CJUS 330 Correctional Theory and Institutions 4
CJUS 340 Police and Police Systems 4
CJUS 598 Integrative Studies in Criminal Justice 4

Electives (36)
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.

Thirty-six units chosen from:
- CJUS 106 Introduction to Criminal Investigation
- CJUS 354 Victimology
- CJUS 370 Law and the Courts
- CJUS 430 Correctional Administration
- CJUS 431 Community Corrections
- CJUS 435 Correctional Counseling
- CJUS 440 Police Administration
- CJUS 441 Community Policing
- CJUS 451 Women and Crime
- CJUS 452 Occupational and Corporate Crime
- CJUS 453 Gangs
- CJUS 455 Forensic Profiling
- CJUS 460 Alcohol, Drugs, and the Criminal Justice System
- CJUS 462 Domestic Violence and the Criminal Justice System
- CJUS 465 Hate Crime and Law Policy
- CJUS 466 Justice and the Media
- CJUS 470 Environmental Crime Prevention
- CJUS 504 Criminal Procedure
- CJUS 550 Crime and Intelligence Analysis
- CJUS 554 Terrorism
- CJUS 555 Homeland Security
- CJUS 570 Crime in Public Spaces
- CJUS 575 Internship in Criminal Justice
- CJUS 580 Juvenile Justice System
- CJUS 585 Criminality Across the Life Course
- CJUS 590A-D Topics in Criminal Justice
- CJUS 595A-D Independent Study
Bachelor of Arts in Criminal Justice - Crime Analysis Option

Requirements (103-105 units)

Total units required for graduation: 180

Students are unable to enroll in the Crime Analysis Option until they have completed the program admission criteria. Students must earn a grade no lower than a “C+” (2.3) in the following six (6) courses in order to be admitted into the Crime Analysis option.

CJUS 101 Introduction to the Criminal Justice System 4
GEOG 202 Introduction to Geographic Information Systems and Cartography 5
or IST 280 Information Mapping and Data Visualization 4
IST 101 Introduction to Information Technology 4
CJUS 311 Research Methods in Criminal Justice 4
CJUS 312 Statistics in Criminal Justice 4
CJUS 320 Theories of Crime and Delinquency 4

Transfer students who are not bringing in the equivalent coursework must take these classes prior to being admitted to the Crime Analysis Option. Upon successful completion of these program admission requirements, the student’s major will be changed automatically from “Pre-Criminal Justice - Crime Analysis Option” to “Criminal Justice - Crime Analysis Option” status.

Upon admission into the Crime Analysis option, students must select an area of technical proficiency: A) Geographic Information Systems; B) Cyber Security. Then, students may proceed with completing their degree.

Requirements for the B.A. in Criminal Justice - Crime Analysis Option

In addition to the general requirements of the university and the program admissions criteria explained above, students must complete the following courses to graduate from this program option.

Lower-division requirements, prerequisites for upper-division courses (12)

CJUS 102 Criminal Law 4
CJUS 106 Introduction to Criminal Investigation 4
IST 274 Data Base Management and Policies 4

Upper-division requirements (17)

CJUS 470 Environmental Crime Prevention 4
CJUS 550 Crime and Intelligence Analysis 5
CJUS 570 Crime in Public Spaces 4
One of the following:
CJUS 575 Internship in Criminal Justice 4
GEOG 575D Internship in Geography 4

Total Units 41

Note: If not already used a major requirement, the internship (CJUS 575, GEOG 575 or IST 575) or independent study (CJUS 595, GEOG 595 or IST 595) could be used as electives

Technical Proficiency Requirement (37-39 units)

Select one (1) area of proficiency and complete all required and elective courses.

Proficiency in Geographic Information Systems (39)

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.

Bachelor of Arts in Criminal Justice - Crime Analysis Option

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.

Bachelor of Arts in Criminal Justice - Crime Analysis Option
Bachelor of Arts 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)

- CJUS 101 Introduction to the Criminal Justice System 4
- CJUS 102 Criminal Law 4
- PLST 100 Introduction to Law 4

Upper-division requirements (24)

- CJUS 311 Research Methods in Criminal Justice 4
- CJUS 312 Statistics in Criminal Justice 4
- PLST 371 Contract Law 4
- PLST 372 Tort Law 4
- PLST 385 Legal Research 4

Electives (32)

- PLST 386 Legal Writing 4

Note: Students transferring from community colleges may substitute a maximum of eight lower-division units selected from paralegal courses toward the electives category.

Thirty-two units chosen from:

- CJUS 370 Law and the Courts
- CJUS 504 Criminal Procedure
- PLST 370 Wills, Estates and Trusts
- PLST 373 Property Law
- PLST 376 Family Law
- PLST 377 Fundamentals of Litigation
- PLST 378 Corporate Law
- PLST 575 Internship in Paralegal Studies
- PLST 590 Topics in Paralegal Studies
- PLST 595 Independent Study

A maximum of eight units may be chosen from the following:

- ACCT 211 Introductory Accounting I
- BIOL 223 Human Physiology and Anatomy I
- COMM 311 Business and Professional Communication
- COMM 441 Interviewing
- COMM 522 Mediation Theory and Practice
- PSCI 410 American Constitutional Law
- PSCI 500 American Constitutional Law

Thirty-two units chosen from:

- ACCT 211 Introductory Accounting I
- BIOL 223 Human Physiology and Anatomy I
- COMM 311 Business and Professional Communication
- COMM 441 Interviewing
- COMM 522 Mediation Theory and Practice
- PSCI 410 American Constitutional Law
- PSCI 500 American Constitutional Law

Total Units 68

Note: Technical proficiency options have additional requirements if you desire to obtain profession certifications. Consult the relevant department.

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, or
   - Professional M.A. Option:
     - Completed all required course work except Comprehensive Examination;
3. Completed all course work taken before advancement to candidacy with a minimum grade point average of 3.0 ("B"). Completed all course work with no more than one course with a grade as low as "C." If a second such grade is earned, the student will be dismissed from the program, but may petition the graduate admission committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade of "C" or lower will result in permanent dismissal from the program with no recourse to petition;
4. For the traditional thesis option: made arrangements for three faculty members, in consultation with the criminal justice graduate coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
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 in Graduate Degree and Program Requirements (p. 60).

### Degree Requirements (45 units)

#### Plan I (Traditional Thesis Option)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CJUS 604</td>
<td>Advanced Techniques of Basic and Applied Research in Criminal Justice</td>
<td>4</td>
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<tr>
<td>CJUS 605</td>
<td>Proseminar in Criminal Justice</td>
<td>4</td>
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<tr>
<td>CJUS 606</td>
<td>Statistical Analysis in Criminal Justice</td>
<td>4</td>
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<tr>
<td>CJUS 607</td>
<td>Applying Criminological Theory to Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 631</td>
<td>Seminar in Corrections</td>
<td>4</td>
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<tr>
<td>or CJUS 632</td>
<td>Seminar in Policing</td>
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<tr>
<td>CJUS 686</td>
<td>Graduate Review in Criminal Justice</td>
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Sixteen units of electives (with no more than eight units at the 500-level) to be chosen in consultation with an advisor:

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<tr>
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<tbody>
<tr>
<td>CJUS 504</td>
<td>Criminal Procedure</td>
<td></td>
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<tr>
<td>CJUS 550</td>
<td>Crime and Intelligence Analysis</td>
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<tr>
<td>CJUS 554</td>
<td>Terrorism</td>
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<td>CJUS 570</td>
<td>Crime in Public Spaces</td>
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<td>CJUS 585</td>
<td>Criminality Across the Life Course</td>
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<tr>
<td>CJUS 590A-D</td>
<td>Topics in Criminal Justice</td>
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<td>CJUS 608</td>
<td>Crime, Criminals and Victims</td>
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<td>CJUS 629</td>
<td>Minorities in the Criminal Justice System</td>
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<td>CJUS 630</td>
<td>Legal Issues in Criminal Justice</td>
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<tr>
<td>CJUS 631</td>
<td>Seminar in Corrections (if not taken previously)</td>
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<tr>
<td>CJUS 632</td>
<td>Seminar in Policing (if not taken previously)</td>
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<tr>
<td>CJUS 650A-D</td>
<td>Directed Area Studies in Criminal Justice</td>
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Other courses may be allowed with consent of department.

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<tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>CJUS 699B</td>
<td>Thesis II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 45

#### Plan II (Professional Option)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 604</td>
<td>Advanced Techniques of Basic and Applied Research in Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 605</td>
<td>Proseminar in Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 606</td>
<td>Statistical Analysis in Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 607</td>
<td>Applying Criminological Theory to Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 631</td>
<td>Seminar in Corrections</td>
<td>4</td>
</tr>
<tr>
<td>or CJUS 632</td>
<td>Seminar in Policing</td>
<td></td>
</tr>
<tr>
<td>CJUS 686</td>
<td>Graduate Review in Criminal Justice</td>
<td>1</td>
</tr>
</tbody>
</table>

Twenty-four units of electives (with no more than 12 units at the 500-level) to be chosen in consultation with an advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 504</td>
<td>Criminal Procedure</td>
<td></td>
</tr>
</tbody>
</table>
## Certificate in Criminal Justice

### Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 101</td>
<td>Introduction to the Criminal Justice System</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 102</td>
<td>Criminal Law</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 320</td>
<td>Theories of Crime and Delinquency</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 330</td>
<td>Correctional Theory and Institutions</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 340</td>
<td>Police and Police Systems</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 370</td>
<td>Law and the Courts</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units chosen from upper-division electives in Criminal Justice. 8 units

Total Units: 32

## Certificate in Paralegal Studies

### Requirements (92 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

### Certificate Requirements

#### General Education (28)

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 104A</td>
<td>Stretch Composition III</td>
</tr>
<tr>
<td>ENG 104B</td>
<td>Stretch Composition III for Multilingual Students</td>
</tr>
<tr>
<td>ENG 106A</td>
<td>Accelerated Stretch Composition II</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 104A</td>
<td>Stretch Composition III</td>
</tr>
<tr>
<td>ENG 104B</td>
<td>Stretch Composition III for Multilingual Students</td>
</tr>
<tr>
<td>ENG 106A</td>
<td>Accelerated Stretch Composition II</td>
</tr>
</tbody>
</table>

#### Certificate Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLST 100</td>
<td>Introduction to Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 385</td>
<td>Legal Research</td>
<td>4</td>
</tr>
<tr>
<td>PLST 386</td>
<td>Legal Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLST 370</td>
<td>Wills, Estates and Trusts</td>
<td>4</td>
</tr>
<tr>
<td>PLST 371</td>
<td>Contract Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 372</td>
<td>Tort Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 373</td>
<td>Property Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 376</td>
<td>Family Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 377</td>
<td>Fundamentals of Litigation</td>
<td>4</td>
</tr>
<tr>
<td>PLST 378</td>
<td>Corporate Law</td>
<td>4</td>
</tr>
<tr>
<td>PLST 590</td>
<td>Topics in Paralegal Studies</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 28
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 106B</td>
<td>Accelerated Stretch Composition II for Multilingual Students</td>
</tr>
<tr>
<td>ENG 107</td>
<td>Advanced First-Year Composition</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
</tr>
<tr>
<td>COMM 180</td>
<td>Critical Thinking Through Argumentation</td>
</tr>
<tr>
<td>MATH 180</td>
<td>Critical Thinking Through Applications of Mathematical Logic</td>
</tr>
<tr>
<td>PHIL 200</td>
<td>Critical Thinking Through Symbolic Logic</td>
</tr>
<tr>
<td>PSYC 105</td>
<td>Critical Thinking Through Problems Analysis</td>
</tr>
<tr>
<td>SOC 180</td>
<td>Critical Thinking about Social Problems</td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
</tr>
<tr>
<td>SSCI 306</td>
<td>Expository Writing for the Social Sciences</td>
</tr>
<tr>
<td>SSCI 300</td>
<td>Nonwestern World</td>
</tr>
<tr>
<td>SSCI 304</td>
<td>Contemporary Latin America</td>
</tr>
<tr>
<td>SSCI 315</td>
<td>Cultural Adaptation: The Quest for Survival</td>
</tr>
<tr>
<td>SSCI 316</td>
<td>Race and Racism</td>
</tr>
<tr>
<td>SSCI 320</td>
<td>Understanding Capitalism</td>
</tr>
<tr>
<td>SSCI 321</td>
<td>Urbanization and the Urban Environment</td>
</tr>
<tr>
<td>SSCI 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>SSCI 345</td>
<td>Religious Expression in America</td>
</tr>
<tr>
<td>SSCI 350</td>
<td>Roots of Modern Racism in America</td>
</tr>
<tr>
<td>HUM 319</td>
<td>Myth, Metaphor and Symbol</td>
</tr>
<tr>
<td>HUM 325</td>
<td>Perspectives on Gender</td>
</tr>
<tr>
<td>HUM 328</td>
<td>Asian Cultural Traditions</td>
</tr>
<tr>
<td>HUM 330</td>
<td>Arts and Ideas</td>
</tr>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
</tr>
<tr>
<td>HUM 340</td>
<td>Interpretation and Values</td>
</tr>
<tr>
<td>HUM 344</td>
<td>Ideas in American Culture</td>
</tr>
<tr>
<td>HUM 350</td>
<td>The Culture of American Childhood</td>
</tr>
<tr>
<td>HUM 370</td>
<td>African Heritage in the Arts</td>
</tr>
<tr>
<td>HUM 375</td>
<td>The World of Islam</td>
</tr>
<tr>
<td>HUM 380</td>
<td>Comparative Studies in the Arts: East and West</td>
</tr>
<tr>
<td>HUM 385</td>
<td>A Cultural History of Fashion</td>
</tr>
</tbody>
</table>

**PLST 100** | Introduction to Law |
**PLST 371** | Contract Law |
**PLST 372** | Tort Law |
**PLST 385** | Legal Research |
**PLST 386** | Legal Writing |

**PLST 370** | Wills, Estates and Trusts

Table: Legal Speciality (36)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLST 100</td>
<td>Introduction to Law</td>
</tr>
<tr>
<td>PLST 371</td>
<td>Contract Law</td>
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<tr>
<td>PLST 372</td>
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<tr>
<td>PLST 385</td>
<td>Legal Research</td>
</tr>
<tr>
<td>PLST 386</td>
<td>Legal Writing</td>
</tr>
<tr>
<td>PLST 370</td>
<td>Wills, Estates and Trusts</td>
</tr>
</tbody>
</table>

Table: General Electives (28)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLST 373</td>
<td>Property Law</td>
</tr>
<tr>
<td>PLST 376</td>
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<td>Corporate Law</td>
</tr>
<tr>
<td>PLST 575</td>
<td>Internship in Paralegal Studies</td>
</tr>
<tr>
<td>PLST 590</td>
<td>Topics in Paralegal Studies</td>
</tr>
<tr>
<td>PLST 595</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

No more than eight units taken from the following may count towards the major:

- ACCT 211 | Introductory Accounting I |
- BIOL 223 | Human Physiology and Anatomy I |
- CJUS 370 | Law and the Courts |
- CJUS 504 | Criminal Procedure |
- COMM 311 | Business and Professional Communication |
- COMM 441 | Interviewing |
- COMM 522 | Mediation Theory and Practice |
- PSCI 410 | American Constitutional Law |
- PSCI 500 | International Law |

**Total Units:** 92

* Note: Student may receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325
Department of Economics

Bachelor of Arts

- Economics
- Economics - Applied Economics
- Economics - Mathematical Economics
- Economics - Political Economy

Minors

- Applied Economics
- Economics
- Mathematical Economics
- Philosophy, Policy, and Economics
- Political Economy

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, education, public administration and management.

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.

Current Faculty

- Parviz Asheghian, Professor
  B.A. 1971, Iranian Institute of Advanced Accounting
  M.B.A. 1973, University of Detroit
  M.A. 1976, University of Florida
  Ph.D. 1980, Georgia State University
- Kazim Konyar, Professor
  B.A. 1977, San Diego State University
  M.A. 1980, Ph.D. 1975, University of California, Riverside
- Daniel MacDonald, Assistant Professor
  Ph.D., 2013, University of Massachusetts Amherst
- Eric Nilsson, Professor
  A.B. 1979, University of California, Berkeley
  Ph.D. 1989, University of Massachusetts, Amherst
- Thomas J. Pierce, Professor
  B.A. 1971, La Salle College
  M.A. 1975, Ph.D. 1976, University of Notre Dame
- Mayo Toruño, Professor, Chair
  B.A. 1974, B.A. 1975, M.A. 1976, California State University, Los Angeles
  M.A. 1979, Ph.D. 1983, University of California, Riverside.

Emeriti

- Carolyn B. Aldana, Professor
- Ralph James Charkins, Professor
- Nancy E. Rose, Professor

Undergraduate Degrees

Bachelor of Arts

- Economics (p. 746)
- Economics - Applied Economics (p. 747)
- Economics - Mathematical Economics (p. 747)
- Economics - Political Economy (p. 748)

Minors

- Economics (p. 748)
- Philosophy, Policy, and Economics (p. 748)
- Political Economy (p. 749)

Courses

ECON 104. Economics of Social Issues. 4 Units.

(GE=D4)
Economic perspectives on social issues. Cannot be counted toward fulfillment of requirements in the economics major.
ECON 200. Principles of Microeconomics. 4 Units.
Introduction to the economic principles which govern production, exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and noncompetitive markets.

ECON 202. Principles of Macroeconomics. 4 Units.
Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth.

ECON 250. Statistics for Economists. 4 Units.
Prerequisites: MATH 110
Introduction to the statistical tools and data used by economists. Three hours lecture and two hours laboratory.

ECON 300. Intermediate Macroeconomics. 4 Units.
Prerequisites: ECON 200, ECON 202 and MATH 110, MATH 120, MATH 211 or MATH 192
Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment.

ECON 302. Intermediate Microeconomics. 4 Units.
Prerequisites: ECON 200, ECON 202 and MATH 110, MATH 120, MATH 211 or MATH 192
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.

ECON 311. Economics in the Elementary and Middle School. 4 Units.
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.

ECON 322. Managerial Economics. 4 Units.
Prerequisites: ECON 200, ECON 202, ECON 335 and MATH 110, MATH 120, MATH 211 or MATH 192
Application of microeconomic theory and analysis to business and administrative problems.

ECON 333. Political Economy of Women: Money, Sex, Race, and Power. 4 Units.
Examination of women’s economic status. History of women of various races in the U.S. political economy. Exploration of alternative policies.

ECON 335. Tools of Economic Analysis. 4 Units.
Prerequisites: ECON 200, ECON 202 and MATH 110, MATH 120, MATH 192, or MATH 211
Using current software and basic economic models to investigate and analyze economic phenomena.

ECON 340. Advanced Tools of Economic Analysis. 4 Units.
Prerequisites: ECON 335 or consent of instructor
Advanced formulation, construction, and application of computer models using economics concepts and principles.

ECON 352. Political Economy of Poverty and Discrimination. 4 Units.
(GE=G2)

ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People. 4 Units.
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. (Offered as GSS and ECON 357, students may not receive credit for both.) GSS 357 was formerly WSTD 357.

ECON 360. Economics of the Environment. 4 Units.
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.

ECON 372. Business Cycles. 4 Units.
Prerequisites: ECON 200, 202, 335 and MATH 110, 120, 192, or 211
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.

ECON 390. Selected Topics in Economics. 4 Units.
Examination of selected topics of current interest in economics. May be repeated for credit as topics change.

ECON 410. Money and Banking. 4 Units.
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.

ECON 421. Economic History of the United States. 4 Units.
Economic history of the United States from the founding of the colonies to the present.

ECON 430. International Economics. 4 Units.
Prerequisites: ECON 200 and ECON 202
Theories of the causes and effects of trade between nations. Study of government policies which alter the pattern of trade between nations.
ECON 435. Multinational Corporations. 4 Units.
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.

ECON 443. Origins of Political Economy. 4 Units.
Economic theories of Karl Marx and the intellectual, political, and economic context in which they developed. Formerly a topic under ECON 390.

ECON 445. Political Economy. 4 Units.
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.

ECON 450. Global Economy. 4 Units.
Examines factors that give rise to uneven economic growth and economic interdependence among nations. Investigates the organizations and rules of conduct of the global economy. Assesses the costs and benefits of globalization to nations.

ECON 460. Labor Economics. 4 Units.
Prerequisites: ECON 200
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.

ECON 475. Public Finance. 4 Units.
Prerequisites: ECON 200 or consent of instructor
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.

ECON 480. Quantitative Methods in Economics. 4 Units.
Prerequisites: ECON 200, 202, and MATH 110, 120, 211 or 192
Application of mathematical tools and concepts in formulating and solving economic problems.

ECON 490. Introduction to Econometrics. 4 Units.
Prerequisites: ECON 200, 202; MATH 110, 120, 211 or 192; and ECON 250 or ADMN 210, or equivalent
Various statistical methods of testing economic hypotheses.

ECON 500. History of Economic Thought. 4 Units.
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.

ECON 503. Economic Analysis. 4 Units.
Prerequisites: graduate standing
An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students who have received credit for ECON 200 and 202. Formerly ECON 305.

ECON 510. Economics in the Classroom. 4 Units.
Economics method of analysis as it applies to 7th through 12th grade California History/Social Science Standards. Formerly ECON 310.

ECON 520. Social Economics. 4 Units.
Study of the social, cultural, and political context of economic behavior. Primary focus on the work of Social Economists, Institutionalists, and Post Keynesians. Formerly ECON 447.

ECON 530. The Good Economy. 4 Units.
Standards used to judge an economy as good or bad including utilitarian, neoclassical welfare economics, Rawlsian, neo-Aristotelian, and/or postmodernist approaches.

ECON 540. Political Economy of Latin America. 4 Units.
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.

ECON 545. Economics of Water Resources. 4 Units.
Prerequisites: ECON 200 and 503, or consent of instructor
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.

ECON 571. Economics of Sports. 4 Units.
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.

ECON 573. Economics of Crime. 4 Units.
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.

ECON 575. Internship in Economics. 4 Units.
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
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.

ECON 590. Seminar in Economics. 4 Units.
Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor.
ECON 595A. Independent Study. 1 Unit.
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.
Investigation of special topics not covered by the departments curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation.

ECON 595B. Independent Study. 2 Units.
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.
Investigation of special topics not covered by the departments curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation.

ECON 595C. Independent Study. 3 Units.
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.
Investigation of special topics not covered by the departments curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation.

ECON 595D. Independent Study. 4 Units.
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.
Investigation of special topics not covered by the departments curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation.

ECON 695B. Graduate Independent Study in Economics. 2 Units.
Prerequisites: graduate standing, consent of instructor, and approval of written proposal of the research.
Independent graduate research in economics.

ECON 695C. Graduate Study in Economics. 3 Units.
Prerequisites: graduate standing, consent of instructor, and approval of written proposal of the research.
Independent graduate research in economics.

ECON 695D. Graduate Independent Study in Economics. 4 Units.
Prerequisites: graduate standing, consent of instructor, and approval of written proposal of the research.
Independent graduate research in economics.

Bachelor of Arts in Economics

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Economics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td>Statistics for Economists</td>
<td>4</td>
</tr>
<tr>
<td>ECON 250</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
<td></td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td></td>
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<tr>
<td>Four units chosen from:</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
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</tbody>
</table>

Upper-division requirements (52)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 300</td>
<td>Intermediate Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 335</td>
<td>Tools of Economic Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>A minimum of eight units chosen from:</td>
<td>Managerial Economics</td>
<td>8</td>
</tr>
<tr>
<td>ECON 322</td>
<td>Managerial Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 340</td>
<td>Advanced Tools of Economic Analysis</td>
<td></td>
</tr>
<tr>
<td>ECON 372</td>
<td>Business Cycles</td>
<td></td>
</tr>
<tr>
<td>ECON 480</td>
<td>Quantitative Methods in Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 490</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
<tr>
<td>A minimum of eight units chosen from:</td>
<td>Economics of the Environment</td>
<td>8</td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td></td>
</tr>
<tr>
<td>ECON 410</td>
<td>Money and Banking</td>
<td></td>
</tr>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
<td></td>
</tr>
<tr>
<td>ECON 460</td>
<td>Labor Economics</td>
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<tr>
<td>ECON 475</td>
<td>Public Finance</td>
<td></td>
</tr>
<tr>
<td>ECON 545</td>
<td>Economics of Water Resources</td>
<td></td>
</tr>
<tr>
<td>ECON 571</td>
<td>Economics of Sports</td>
<td></td>
</tr>
<tr>
<td>ECON 573</td>
<td>Economics of Crime</td>
<td></td>
</tr>
<tr>
<td>A minimum of eight units chosen from:</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
<td>8</td>
</tr>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Arts in Economics - Applied Economics

Requirements (68 units)

Lower-division requirements (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 211</td>
<td>Introductory Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 212</td>
<td>Introductory Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
<td>4</td>
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</tbody>
</table>

Upper-division requirements (44)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 300</td>
<td>Intermediate Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 322</td>
<td>Managerial Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 335</td>
<td>Tools of Economic Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 372</td>
<td>Business Cycles</td>
<td>4</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>FIN 313</td>
<td>Business Finance</td>
<td>4</td>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 340</td>
<td>Advanced Tools of Economic Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 480</td>
<td>Quantitative Methods in Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 490</td>
<td>Introduction to Econometrics</td>
<td>4</td>
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</tbody>
</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>ECON 410</td>
<td>Money and Banking</td>
<td>4</td>
</tr>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 68

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 ECON 490, MATH 211, MATH 212, MATH 251 and MATH 331. Alternatively, students can take the Mathematical Economics track if they are considering graduate school.

Bachelor of Arts in Economics - Mathematical Economics

Requirements (68 units)

Lower-division requirements (24)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 250</td>
<td>Statistics for Economists</td>
<td>4</td>
</tr>
<tr>
<td>MATH 262</td>
<td>Applied Statistics</td>
<td>4</td>
</tr>
<tr>
<td>ADMN 210</td>
<td>Applied Business Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

MATH 211 Basic Concepts of Calculus

MATH 212 Calculus II

MATH 251 Multivariable Calculus I

Upper-division requirements (44)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 300</td>
<td>Intermediate Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 335</td>
<td>Tools of Economic Analysis</td>
<td>4</td>
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<tr>
<td>ECON 480</td>
<td>Quantitative Methods in Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 490</td>
<td>Introduction to Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Linear Algebra</td>
<td>4</td>
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</table>

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 322</td>
<td>Managerial Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 340</td>
<td>Advanced Tools of Economic Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
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<tr>
<td>ECON 372</td>
<td>Business Cycles</td>
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<tr>
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<td>Money and Banking</td>
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<tr>
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<td>International Economics</td>
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<td>Multinational Corporations</td>
<td>4</td>
</tr>
<tr>
<td>ECON 460</td>
<td>Labor Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 475</td>
<td>Public Finance</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 68
Bachelor of Arts in Economics - Political Economy

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Economics - Political Economy

Lower-division requirements (16)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>ECON 250</td>
<td>Statistics for Economists</td>
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<tr>
<td>MATH 262</td>
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<tr>
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<td>Four units chosen from:</td>
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</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>MATH 211</td>
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</tbody>
</table>

Upper-division requirements (52)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>ECON 300</td>
<td>Intermediate Macroeconomics</td>
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</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 443</td>
<td>Origins of Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>ECON 445</td>
<td>Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>A minimum of twelve units chosen from:</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
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<tr>
<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
<td></td>
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<tr>
<td>ECON 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
<td></td>
</tr>
<tr>
<td>ECON 421</td>
<td>Economic History of the United States</td>
<td></td>
</tr>
<tr>
<td>ECON 450</td>
<td>Global Economy</td>
<td></td>
</tr>
<tr>
<td>ECON 520</td>
<td>Social Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 530</td>
<td>The Good Economy</td>
<td></td>
</tr>
<tr>
<td>ECON 540</td>
<td>Political Economy of Latin America</td>
<td></td>
</tr>
<tr>
<td>ECON 545</td>
<td>Economics of Water Resources</td>
<td></td>
</tr>
<tr>
<td>ECON 550</td>
<td>Economics of Sports</td>
<td></td>
</tr>
<tr>
<td>ECON 571</td>
<td>Economics of Sports</td>
<td></td>
</tr>
<tr>
<td>ECON 573</td>
<td>Economics of Crime</td>
<td></td>
</tr>
<tr>
<td>Twenty additional economics units. With approval of department advisor, eight units in related fields may be counted toward upper-division course requirements in the major.</td>
<td></td>
<td>20</td>
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</tbody>
</table>

Total Units 68

Note: In addition to the course requirements stated above, students considering graduate study in economics are urged to complete the following courses: ECON 480, ECON 490, MATH 211, MATH 212, MATH 251 and MATH 331. Alternatively, students can take the Mathematical Economics track if they are considering graduate school.

Minor in Economics

Requirements (28 units)

Requirements for a minor in Economics

Lower-division requirements (8)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
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</table>

Upper-division requirements (20)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
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</tr>
<tr>
<td>Sixteen units of additional economics courses.</td>
<td></td>
<td>16</td>
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</tbody>
</table>

Total Units 28

Minor in Philosophy, Policy, and Economics

Requirements (28 units)

Requirements for a minor in Philosophy, Policy and Economics

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)
Select 8-12 units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 314</td>
<td>History of Modern Philosophy: Ethics and Politics</td>
</tr>
<tr>
<td>PHIL 350</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHIL 353</td>
<td>Topics in Applied Ethics</td>
</tr>
<tr>
<td>PHIL 359</td>
<td>Philosophy and Economics</td>
</tr>
<tr>
<td>PHIL 361A</td>
<td>Social and Political Philosophy: Classical Political Theories</td>
</tr>
<tr>
<td>PHIL 361B</td>
<td>Social and Political Philosophy: Themes in Social and Political Philosophy</td>
</tr>
<tr>
<td>PHIL 362</td>
<td>Philosophy of Law</td>
</tr>
<tr>
<td>PHIL 460</td>
<td>Advanced Issues in Value Theory</td>
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</table>

### Economics (8-12)
Select 8-12 units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 443</td>
<td>Origins of Political Economy</td>
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<tr>
<td>ECON 445</td>
<td>Political Economy</td>
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<td>ECON 520</td>
<td>Social Economics</td>
</tr>
<tr>
<td>ECON 530</td>
<td>The Good Economy</td>
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</table>

### Political Science (8-12)
Select 8-12 units chosen from:

<table>
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<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PSCI 310</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>PSCI 311</td>
<td>Foundations of Modern Political Thought</td>
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<tr>
<td>PSCI 313</td>
<td>Modern Political Thought</td>
</tr>
<tr>
<td>PSCI 315</td>
<td>Post Modern Political Thought</td>
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</tbody>
</table>

Total Units 24-36

## Minor in Political Economy

### Requirements (28 units)

#### Requirements for a minor in Political Economy

**Lower-division requirements (4)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
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</table>

**Upper-division requirements (24)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 445</td>
<td>Political Economy</td>
</tr>
<tr>
<td>ECON 500</td>
<td>History of Economic Thought</td>
</tr>
</tbody>
</table>

A minimum of twelve units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
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<td>ECON 530</td>
<td>The Good Economy</td>
</tr>
<tr>
<td>ECON 540</td>
<td>Political Economy of Latin America</td>
</tr>
</tbody>
</table>

Four units of additional economics courses.

Total Units 28
Department of Geography and Environmental Studies

Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J
(909) 537-5519 Department of Geography and Environmental Studies
(http://geog.csusb.edu)

Bachelor of Arts

• Environmental Studies - Track A
• Environmental Studies - Track B
• Geography - Geography Option
• Geography - Global Studies Option

Minor

• Environmental Studies
• Geography
• Geography - Global Studies

Certificate Programs

• Geographic Information Systems
• Urban Planning

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.

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.

Geography

Geography is concerned with the spatial variations and interrelationships between the natural and cultural features of the earth. Geographers study the earth primarily as the home of human beings. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both humans and their environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, geographic information systems (GIS) and international organizations.

Students who can meet the qualifications are also encouraged to participate in the California State University's International Programs (p. 14). 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.

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.

Current Faculty

Andrew Bodman, Professor, Provost and Vice President for Academic Affairs
Ph.D. 1978, The Ohio State University

Brett Goforth, Assistant Professor
Ph.D., 2009, University of California, Riverside

Kevin Grisham, Assistant Professor
B.A. 1997, California State University, San Bernardino
M.A. 2005, Ph.D. 2009, University of California, Riverside

Rajrani Kalra, Associate Professor
Courses

GEOG 100. Introduction to Human Geography. 4 Units.
( GE=D4 )
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.

GEOG 103. Physical Geography. 5 Units.
Prerequisites: satisfactory score on the Entry Level Mathematics examination
( GE=B.3 )
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.

GEOG 104. Physical Geography Laboratory. 1 Unit.
Prerequisites: satisfactory score on the Entry Level Mathematics examination, the transferable equivalent of Introductory Physical Geography lecture, and permission of department
Physical geography laboratory course designed to supplement a physical geography lecture course taken elsewhere without an accompanying laboratory. Materials fee required.

GEOG 201. Map Interpretation. 4 Units.
Introduction to maps as a communication tool, focusing on map fundamentals, such as scale, symbols and design, as well as using maps as a practical device for navigation and spatial measurement. Participation in a weekend outdoor map reading exercise is required. Formerly GEOG 300.

GEOG 202. Introduction to Geographic Information Systems and Cartography. 5 Units.
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.

GEOG 300. Geography in the Elementary and Middle School Classroom. 4 Units.
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.

GEOG 302. Geography of California. 4 Units.
Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment.

GEOG 303. Introduction to Global Studies. 4 Units.
Prerequisites: SSCI 165 or consent of instructor
Examination of the causes and consequences of globalization, including climate change, migration, cultural conflicts, and economics.
GEOG 304. Field Methods in Geography. 4 Units.
Prerequisites: GEOG 103 and 201
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.

GEOG 305. Geographic Statistics and Research Methods. 4 Units.
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.

GEOG 306. Remote Sensing of the Environment. 4 Units.
Prerequisites: GEOG 103 or consent of instructor
Interpretation of environmental phenomena recorded by satellite and aerial multispectral sensing systems, especially conventional aerial photography.

GEOG 307. Transportation Issues and Development. 4 Units.
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.

GEOG 308. Advanced Geographic Information Systems. 5 Units.
Prerequisites: GEOG 202 or consent of instructor
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.

GEOG 311. The Dynamic Earth. 5 Units.
Prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor
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.

GEOG 312. Geography of the Developing World. 4 Units.
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.

GEOG 313. Geography of the Developed World. 4 Units.
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.

GEOG 315. Spatial Analysis. 4 Units.
Prerequisites: GEOG 202 or consent of instructor
Concepts and applications of modern spatial analysis, information systems and spatial statistics.

GEOG 320. Geography of Social Issues. 4 Units.
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.

GEOG 322. United States and Mexico Border Issues. 4 Units.
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.

GEOG 323. North America. 4 Units.
Systematic examination of the physical and cultural geography of North America, stressing the relationships between the natural environment and human settlement and economic patterns.

GEOG 341. Military Geography. 4 Units.
Examination of terrain, climate, and other physical geography factors that influence military operations. Formerly a topic under GEOG 390.

GEOG 350. Conservation and Natural Resources. 4 Units.
Principles of resource utilization and ecology as they involve human development and politico-economic policy.

GEOG 360. Weather and Climate. 4 Units.
Prerequisites: GEOG 103 or consent of instructor
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.

GEOG 365. Climate Change. 4 Units.
Prerequisites: GEOG 103 or GEOL 101
An examination of past climates, modern climates and evidence for future climate change. Students are required to attend two weekend field trips. Formerly a topic under GEOG 390.

GEOG 370. Landscape Analysis. 4 Units.
Prerequisites: BIOL 100 or HSCI 120; and GEOG 103; or consent of instructor
Analysis of the earth as a mosaic of varying size habitat patches. Principles of geography, ecology, and biogeography are used to examine the characteristics and processes that work within and between patches. The application of landscape concepts to land use planning will be discussed, as will methods for determining spatial patterning. Formerly GEOG 460.

GEOG 390. Selected Topics in Geography. 4 Units.
Examination of selected topics of current interest in geography. May be repeated for credit as topics change.

GEOG 392. Selected Topics in Geography. 2 Units.
Examination of selected topics of current interest in geography. May be repeated for credit as topics change.
GEOG 402. Geographic Information Systems Applications. 5 Units.
Prerequisites: GEOG 202 or consent of instructor
An examination of case studies in which geographic information systems (GISs) have been used to address environmental problems. Individual and/or group projects required. Four hours lecture and three hours laboratory. Materials fee required. Formerly a topic under GEOG 390.

GEOG 406. Digital Image Processing. 4 Units.
Prerequisites: GEOG 306 or consent of instructor
Geographic manipulation and interpretation of multispectral scanner data from satellites, radar and other digital image sources with the aid of computers.

GEOG 415. Urban Planning and Land Development. 4 Units.
Comprehensive urban planning and land use controls. Emphasis on impact of urban development in North America.

GEOG 420. Geography of Economic Activity. 4 Units.
Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization.

GEOG 440. Understanding the City. 4 Units.
A study of the physical and social attributes of the North American city. Emphasis is placed on urban planning and policy making.

GEOG 470. Hydrology and Water Resources. 4 Units.
Prerequisites: GEOG 103 or consent of instructor
Basic principles of hydrology: relationships between atmospheric, surface and groundwater phenomena; streamflow and flood prediction; water supply and quality.

GEOG 480. Geomorphology. 4 Units.
Prerequisites: GEOG 103 or GEOL 101 or consent of instructor
Landforms and the processes that create them. Multi-day field trip required.

GEOG 500. Senior Seminar. 2 Units.
Prerequisites: senior standing in geography or environmental studies and permission of Geography Department
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.

GEOG 575D. Internship in Geography. 4 Units.
Prerequisites: consent of instructor and department
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.

GEOG 575E. Internship in Geography. 5 Units.
Prerequisites: consent of instructor and department
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.

GEOG 595B. Independent Study. 2 Units.
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 total of eight units in GEOG 595 may be applied toward the major and graduation.

GEOG 595C. Independent Study. 3 Units.
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 total of eight units in GEOG 595 may be applied toward the major and graduation.

GEOG 595D. Independent Study. 4 Units.
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 total of eight units in GEOG 595 may be applied toward the major and graduation.

GEOG 595E. Independent Study. 5 Units.
Prerequisites: consent of instructor and department
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.

GEOG 597. Senior Honors Project. 4 Units.
Original research in Geography and Environmental Studies, culminating in a significant research report. Enrollment limited to students whose formal application for departmental honors is approved. Graded credit/no credit.

GEOG 600. Proseminar in Geography. 4 Units.
Prerequisites: consent of instructor
Survey of the concepts and ideas that geographers employ to study, describe and analyze globalization.

GEOG 605. Spatial Data Presentation. 4 Units.
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.

GEOG 610. Military Geography for National Security. 4 Units.
Examination of the terrain, climate and other physical geography factors that affect national security.

GEOG 615. Foundations of Planning I. 4 Units.
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.

GEOG 616. Foundations of Planning II. 4 Units.
Standards and issues associated with the development of general planning, zoning ordinances, and land subdivision are examined.

GEOG 617. Planning Within the Local Power Structure. 4 Units.
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.
GEOG 621. Seminar in the Geography of Latin America. 4 Units.
A geographic perspective of Latin America, including such topics as population, economic development, environment and foreign relations.

GEOG 650. Environmental Issues of Land Management. 4 Units.
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.

GEOG 680. Advanced Demographic Analysis. 4 Units.
Advanced study of demographic techniques with particular emphasis on those relevant to urban planning. An examination of various data sources is included.

GEOG 695C. Planning Colloquium. 2 Units.
Subdivision Review and Site Design. Discussion of the application of planning techniques in public and private agencies.

GEOG 695D. Supervised Graduate Study in Geography. 4 Units.
Prerequisites: classified standing in the master’s program and consent of instructor
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.

GEOG 695E. Supervised Graduate Study in Geography. 5 Units.
Prerequisites: classified standing in the master’s program and consent of instructor
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.

GEOG 696A. Graduate Project. 1 Unit.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 696B. Graduate Project. 2 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 696C. Graduate Project. 3 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 696D. Graduate Project. 4 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 696E. Graduate Project. 5 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 696F. Graduate Project. 6 Units.
Prerequisites: classified standing and consent of instructor
Original individual research in geography and environmental studies, 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.

GEOG 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
GEOG 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 699. Graduate Project or Thesis. 4 Units.
Prerequisites: CHEM 695, GEOG 695 or GEOL 695
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.
Bachelor of Arts in Environmental Studies

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 205</td>
<td>Fundamentals of Chemistry I: General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Map Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 100</td>
<td>Introduction to Anthropology: Human Evolution</td>
<td>14</td>
</tr>
<tr>
<td>CHEM 206</td>
<td>Fundamentals of Chemistry II: Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introductory Geology</td>
<td></td>
</tr>
<tr>
<td>HSCI 120</td>
<td>Health and Society: An Ecological Approach</td>
<td></td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Physics in the Modern World</td>
<td></td>
</tr>
<tr>
<td>or PHYS 121</td>
<td>Basic Concepts of Physics I</td>
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</table>

Upper-division requirements (31)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>or GEOG 370</td>
<td>Landscape Analysis</td>
<td></td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>or HSCI 478</td>
<td>Environmental Health Management</td>
<td></td>
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<tr>
<td>GEOG 304</td>
<td>Field Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td></td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Digital Image Processing</td>
<td></td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>or GEOG 365</td>
<td>Climate Change</td>
<td></td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 312</td>
<td>Geology of California</td>
<td></td>
</tr>
<tr>
<td>GEOG 305</td>
<td>Geographic Statistics and Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 165</td>
<td>Introductory Statistics and Hypothesis Testing</td>
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</table>

Note: MATH 165 can only be taken with approval of Environmental Studies coordinator

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GEOG 500</td>
<td>Senior Seminar</td>
<td>2</td>
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</tbody>
</table>

Electives (20)

A minimum of 20 units chosen from Groups 1 and 2: (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.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 370</td>
<td>Landscape Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Urban Planning and Land Development</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Hydrology and Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Geology of California</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 322</td>
<td>Air Pollution</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 352</td>
<td>Principles of Environmental Health</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 401</td>
<td>Advanced Environmental Health</td>
<td>5</td>
</tr>
<tr>
<td>PSCI 342</td>
<td>The Politics of Environment</td>
<td>4</td>
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Group 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>or Cartography</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Field Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Geographic Information Systems Applications</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Digital Image Processing</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 301</td>
<td>Introduction to Geologic Mapping</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 324</td>
<td>Radiological Health and Safety</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 478</td>
<td>Environmental Health Management</td>
<td>4</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Biology of the Cell</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>Biology of Organisms</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Biology of Populations</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Chemical Bonding</td>
<td></td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Reactions</td>
<td></td>
</tr>
<tr>
<td>or GEOG 304</td>
<td>Field Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>or GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td></td>
</tr>
<tr>
<td>or GEOG 406</td>
<td>Digital Image Processing</td>
<td></td>
</tr>
<tr>
<td>Five units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Physics in the Modern World</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Basic Concepts of Physics I</td>
<td></td>
</tr>
</tbody>
</table>

Upper-division requirements (31)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 345</td>
<td>Modern Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>or GEOG 304</td>
<td>Field Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>or GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td></td>
</tr>
<tr>
<td>or GEOG 406</td>
<td>Digital Image Processing</td>
<td></td>
</tr>
<tr>
<td>or GEOG 350</td>
<td>Conservation and Natural Resources</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 478</td>
<td>Environmental Health Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives (20)

A minimum of 20 units chosen from Groups 1 and 2: (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.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 478</td>
<td>Environmental Health Management</td>
<td></td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Field Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td></td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Digital Image Processing</td>
<td></td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
<td>4</td>
</tr>
<tr>
<td>Four units chosen from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Climate Change</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 79
Bachelor of Arts in Geography - Geography Option

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography

Lower-division requirements (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 100</td>
<td>Introduction to Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Map Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
<td>5</td>
</tr>
</tbody>
</table>

Upper-division requirements (50)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 305</td>
<td>Geographic Statistics and Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 307</td>
<td>Transportation Issues and Development</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 320</td>
<td>Geography of Social Issues</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 322</td>
<td>United States and Mexico Border Issues</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Geography of Economic Activity</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Urban Planning and Land Development</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Understanding the City</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units: 68

Bachelor of Arts in Geography - Global Studies Option

Requirements (65 units)

Total units required for graduation: 180

Students are encouraged to use approved independent study courses and approved internships for Group 1 and 2 electives.
Requirements for the B.A. in Geography - Global Studies Option

Lower-division requirements (17)

GEOG 103  Physical Geography  5
GEOG 201  Map Interpretation  4
PSCI 204  International Relations  4
SSCI 165  Regions and Peoples of the World  4

Upper-division requirements (20)

GEOG 303  Introduction to Global Studies  4
GEOG 305  Geographic Statistics and Research Methods  4
GEOG 312  Geography of the Developing World  4
GEOG 313  Geography of the Developed World  4
GEOG 350  Conservation and Natural Resources  4

Electives (28)

Four units chosen from:

ANTH 341  Globalization and Culture  4
ANTH 472  Colonial and Postcolonial Anthropology  4

Four units chosen from:

ECON 430  International Economics  4
ECON 450  Global Economy  4
GEOG 420  Geography of Economic Activity  4
HSCI 344  International Perspectives on Nutrition  4
or HSCI 359  Global Health  4
PSCI 300  Western Political Systems  4
or PSCI 306  Developing Political Systems  4
PSCI 400  International Politics  4
or GEOG 320  Geography of Social Issues  4

Eight units chosen from other university courses, or from courses not taken in the upper-division electives. These courses must have an international or world regions perspective and must be chosen in consultation with a departmental advisor.

Total Units  65

Minor in Environmental Studies

Requirements (34 units)

Requirements for a minor in Environmental Studies

Lower-division requirements (14)

Five units chosen from:

BIOL 100  Topics in Biology  5
BIOL 202  Biology of Populations  5
HSCI 120  Health and Society: An Ecological Approach  5

Five units chosen from:

GEOG 103  Physical Geography  5
GEOL 101  Introductory Geology  4
GEOG 201  Map Interpretation  4

Upper-division requirements (8)

GEOG 350  Conservation and Natural Resources  4

Four units chosen from:

ECON 360  Economics of the Environment  4

Electives (12)

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  4
BIOL 450  Ecology  4
ECON 360  Economics of the Environment  4
GEOG 202  Introduction to Geographic Information Systems and Cartography  4
GEOG 305  Geographic Statistics and Research Methods  4
GEOG 360  Weather and Climate  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

Total Units  34

Minor in Geography

Requirements (29 units)

Requirements for a minor in Geography

Lower-division requirements (9)

GEOG 100  Introduction to Human Geography  4
GEOG 103  Physical Geography  5

Upper-division requirements (20)

Twenty units chosen from any geography and environmental studies courses, of which at least fifteen must be upper-division.

Total Units  29

Minor in Geography - Global Studies

Requirements (29 units)

Requirements for a minor in Geography - Global Studies

Lower-division requirements (9)

GEOG 103  Physical Geography  5
SSCI 165  Regions and Peoples of the World  4

Upper-division requirements (20)

GEOG 303  Introduction to Global Studies  4
GEOG 312  Geography of the Developing World  4
GEOG 313  Geography of the Developed World  4
Eight units chosen from any upper-division courses listed in the Geography: Global Studies major.

Total Units 29

Certificate in Geographic Information Systems

Requirements (31-32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Map Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>and Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Geographic Information Systems Applications</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>A minimum of eight units chosen from:</td>
<td>8-9</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Digital Image Processing</td>
<td></td>
</tr>
<tr>
<td>GEOG 575D-E</td>
<td>Internship in Geography</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 31-32

Certificate in Urban Planning

Requirements (25 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Remote Sensing of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 307</td>
<td>Transportation Issues and Development</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Urban Planning and Land Development</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Understanding the City</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 345</td>
<td>Urban Anthropology</td>
<td></td>
</tr>
<tr>
<td>ECON 360</td>
<td>Economics of the Environment</td>
<td></td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
<td></td>
</tr>
<tr>
<td>GEOG 575D</td>
<td>Internship in Geography</td>
<td></td>
</tr>
<tr>
<td>HSCI 478</td>
<td>Environmental Health Management</td>
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<tr>
<td>SOC 430</td>
<td>Urban Sociology</td>
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</tr>
</tbody>
</table>

Total Units 25
Department of History

Department of History
Social and Behavioral Sciences Building, Room 327F
(909) 537-5524 Department of History (http://history.csbs.csusb.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

Minor
History

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.

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 (p. 511) contact the Credentials Office, CE-102.

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, 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.

Current Faculty

Joyce A. Hanson, Professor
B.A. 1990, Central Connecticut State University
M.A. 1992, Ph.D. 1997, University of Connecticut

Tiffany Jones, Associate Professor
B.A. 1999, M.A. 2000, Dalhousie University
Ph.D. 2004, Queen's University, Canada

Ryan Keating, Assistant Professor
Ph.D., 2013, University of New Mexico - Main Campus

Thomas Long, Associate Professor
B.A. 1993, Sonoma State University
M.A. 2001, California State University, Fullerton
Ph.D. 2006, University of California, Riverside

Cherstin Lyon, Associate Professor
Ph.D. 2006, University of Arizona

Jeremy Murray, Assistant Professor
B.A. 2001, SUNY at Albany
M.A. 2004, Columbia University in the City of New York
Ph.D. 2011, University of California, San Diego

Jamal Nassar, Professor, Dean
B.A. 1972, Jacksonville University
M.A. 1974, University of South Florida
Ph.D. 1978, University of Cincinnati

Timothy E. Pytell, Professor, Chair
B.A. 1985, Colorado Springs College
M.A. 1990, Ph.D. 1999, New York University

Richard Samuelson, Associate Professor
B.A. 1992, Bates College
M.A. 1995, Ph.D. 2000, University of Virginia

Pedro Santoni, Professor
B.A. 1978, University of Notre Dame
J.D. 1981, University of Puerto Rico
Ph.D. 1987, El Colegio de Mexico

David N. Yaghoubian, Professor
B.A. 1989, University of California, Santa Cruz
M.A. 1994, Ph.D. 2000, University of California, Berkeley

Emeriti

Elliott R. Barkan, Professor
Robert A. Blackey, Professor
Edward J. Erler, Professor
Lanny B. Fields, Professor
Ward M. McAfee, Professor
Stuart M. Persell, Professor
John M. Pfau, Professor
Cheryl A. Riggs, Professor
Kent Schofield, Professor

Undergraduate Degrees

Bachelor of Arts

- History (p. 766) with tracks in:
  - Track A (Teaching Track)
  - Track B
  - Track C (Public and Oral History Option)

Minor

- History (p. 769)

Courses

HIST 140. World Civilizations I, the Rise of Civilization. 4 Units.
(GE=D3)
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. (Offered as ANTH 140 and HIST 140, students may not receive credit for both.).

HIST 142. World Civilizations II, the Civilizations of the East and West. 4 Units.
(GE=D3)
Major civilizations of the past, including the Mediterranean world, ancient India and China, the Byzantine, Islamic, sub-Saharan African and Amerindian Empires, Europe in the Middle Ages and the connections between and among some of these societies from approximately 100 B.C.E. to about 1450 C.E.

HIST 144. World Civilizations III, the Expansion of Europe. 4 Units.
(GE=D3)
Rise to dominance of the European states and their impact throughout the world, 1500 C.E. to the present.

HIST 146. American Civilization. 4 Units.
(GE=D1)
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.

HIST 200. United States History to 1877. 4 Units.
(GE=D1)
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.

HIST 201. United States History, 1877 to the Present. 4 Units.
(GE=D1)
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.

HIST 270. California History. 4 Units.
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 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.

HIST 305. Ancient and Medieval Europe. 4 Units.

HIST 306. Early Modern Europe, the Renaissance to 1815. 4 Units.
Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars. Formerly HIST 300.

HIST 307. Modern Europe, 1815 to the Present. 4 Units.
Institutions, culture, and political development of Europe from the Congress of Vienna to the present. Formerly HIST 301.

HIST 312. Historical Archaeology. 4 Units.
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. (Offered as ANTH 312 and HIST 312, students may not receive credit for both.).
HIST 316. Archival Practices. 4 Units.
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.

HIST 318. Introduction to Cultural Resource Management. 4 Units.
General overview of the field of Cultural Resource Management in Museum Studies, Anthropology and Public History. Also offered as ANTH 318. Students may not receive credit for both.prerequisite: HIST 323 or consent of instructor.

HIST 320. History of Ancient Greece. 4 Units.
Greek history from the Minoan and Mycenaean civilizations to the reign of the Roman Emperor Justinian in 527-565 C.E.

HIST 321. History of Rome. 4 Units.
Roman history from earliest times to the end of the Roman Empire in the West.

HIST 323. Introduction to Public History. 4 Units.
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.

HIST 324. Introduction to Oral History. 4 Units.
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.

HIST 326. Historic Preservation. 4 Units.
Prerequisites: HIST 324 and 325, or consent of instructor
Examination of the methods, theories, and issues in historic preservation. Field trips and projects are required.

HIST 329. Topics in Public History. 4 Units.
Prerequisites: HIST 323 and 325, or consent of instructor
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.

HIST 330. Topics in Oral History. 4 Units.
Prerequisites: HIST 324 and 325, or consent of instructor
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.

HIST 340. African-American History, 1620-1865. 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.

HIST 341. African-American History, 1865-Present. 4 Units.
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.

HIST 342. American Indian History. 4 Units.
Social, cultural, political, and economic history of American Indians. Special emphasis placed on American Indian agency, sovereignty and diversity.

HIST 344. Women in U.S. History, 1620-1865. 4 Units.
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.

HIST 345. Women in U.S. History, 1865-Present. 4 Units.
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.

HIST 346. Women in the Black Freedom Movement. 4 Units.
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.

HIST 349. Early American Biography. 4 Units.
Early American history through the medium of biography and related primary source documents.

HIST 350. The American Colonies, 1607-1783. 4 Units.
The thirteen colonies from European origins to the attainment of independence.

HIST 351. The Evolution of American Democracy, 1783-1840. 4 Units.
Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras.

HIST 354. Civil War and Reconstruction. 4 Units.
Background and causes of the Civil War and the problems of Reconstruction.

HIST 356. The United States, 1877-1917. 4 Units.
Transformation of the nation between the end of Reconstruction and entrance into World War I.

HIST 357. The United States, 1917-1945. 4 Units.
Principal developments in American life from World War I to the end of World War II.

HIST 358. United States in World War II. 4 Units.
The United States homefront during World War II, focusing on social, economic and constitutional issues.
HIST 359. The United States, 1945-1980. 4 Units.
Major changes in the United States between the end of World War II and 1980.

HIST 360. American History Through Film. 4 Units.
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.

HIST 368. The United States, 1960s. 4 Units.
Examines political, social, and cultural changes in the United States during the turbulent decade of the 1960s.

HIST 370. History of California. 4 Units.
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.

HIST 371. California Indian History. 4 Units.
Social, cultural, political, and economic history of California Indians. Special emphasis placed on California Indian agency, sovereignty and diversity.

HIST 375. Museum Methods. 4 Units.
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.).

HIST 376. Exhibit Design. 4 Units.
Prerequisites: HIST 323 and 325 or consent of instructor
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. (Offered as ANTH 376 and HIST 376, students may not receive credit for both.).

HIST 377. Historical Documentaries. 4 Units.
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.

HIST 379. The History of Madness. 4 Units.
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.

HIST 383. Classical Islamic Civilization. 4 Units.
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.

HIST 384. Modern Middle East. 4 Units.
Prerequisites: HIST 383 or consent of instructor
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).

HIST 385. Africa to 1500. 4 Units.
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.

HIST 386. Africa 1500 to 1870. 4 Units.
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.

HIST 387. Africa 1870 to Present. 4 Units.
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.

HIST 388. The Rise, Decline and Legacy of Apartheid South Africa. 4 Units.
Development of racial segregation and apartheid policies in twentieth century South Africa. Explores the causes and consequences of the rise and collapse of apartheid.

HIST 389. Images of Africa. 4 Units.
Examination of cultural construction of Africa through various forms of media created by Africans and non-Africans from the 17th Century to the present.

HIST 390. History of Modern Mexico. 4 Units.
Survey of Mexican history from the nineteenth century wars of independence to the present.

HIST 391. Chicano History. 4 Units.
Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest.

HIST 395. Topics in History. 4 Units.
Examination of topics of interest in history. May be repeated for credit as topics change.

HIST 396. Topics in History. 2 Units.
Examination of topics of interest in history. May be repeated for credit as topics change.

HIST 399A. Community Service Project. 1 Unit.
Prerequisites: a project proposal must be approved by the department in advance of enrollment
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.
HIST 399B. Community Service Project. 2 Units.
Prerequisites: a project proposal must be approved by the department in advance of enrollment.
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.

HIST 400. Early Medieval Europe. 4 Units.
Survey of the political, economic, and social transformation of Europe from the fall of Rome through the eleventh century.

HIST 401. High Medieval Europe. 4 Units.
Survey of the political, economic, and social transformation of Europe during the high Middle Ages, from the eleventh century to the fourteenth century.

HIST 402. Renaissance and Reformation. 4 Units.
Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648.

HIST 403. The Age of Absolutism and Enlightenment. 4 Units.
The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas.

HIST 405. Nazi Germany and the Holocaust. 4 Units.
The rise of Nazi Germany with a focus on the intertwined worlds of perpetrators and victims of the Holocaust.

HIST 406. European Intellectual History. 4 Units.
The intellectual history of Europe from the Renaissance to the present.

HIST 409. Twentieth Century Europe. 4 Units.
Political and cultural history of Europe from the rise of fascism to the fall of communism.

HIST 410. Hitlers Europe. 4 Units.
Development of totalitarian ideologies focusing primarily on the theory and practice of National Socialism in Germany during the period 1918-1945.

HIST 422. 20th Century Americans. 4 Units.
Biographical focus on key American leaders who affected the course of 20th century American history.

HIST 426. Ancient and Early Imperial China. 4 Units.
Political, social, economic, and cultural developments of China from earliest times to the founding of the Sui Dynasty (589 C.E.).

HIST 428. Medieval China. 4 Units.
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).

HIST 429. Modern China I, 1644-1911. 4 Units.
Political, social, economic, and cultural developments in China in the Qing Dynasty (1644-1911). (4 units.)
HIST 481. History of Christianity II. 4 Units.
Historical development of Christianity from the fall of Rome to the eve of the Protestant Reformation.

HIST 485. Arab-Israeli Conflict. 4 Units.
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.

HIST 486. Modern Iran. 4 Units.
Prerequisites: HIST 383 or consent of instructor
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.

HIST 487. Topics in Modern Middle Eastern History. 4 Units.
Prerequisites: HIST 383 or consent of instructor
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.

HIST 491. Nationalism and Conflict in the Middle East. 4 Units.
Prerequisites: HIST 383 and 384 or consent of instructor
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.

HIST 492. U.S. Media and the Middle East. 4 Units.
Prerequisites: HIST 383 and 384 or consent of instructor
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.

HIST 493. Iran-U.S. Relations. 4 Units.
Prerequisites: HIST 383 and 384 or consent of instructor
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.

HIST 494. Proseminar in History. 4 Units.
Prerequisites: HIST 394 or consent of instructor
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.

HIST 495. Politics of Oil. 4 Units.
Prerequisites: HIST 383 and HIST 384 or consent of instructor
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.

HIST 500. Tudor and Stuart England. 4 Units.
Principal political, social, economic and religious developments of England from 1485 to 1688.

HIST 501. Britain, 1688-1901. 4 Units.
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.

HIST 503. Europe Since 1945. 4 Units.
Europe since 1945, emphasizing the evolution of supranational political, economic, diplomatic, and military institutions in the Cold War and post-Cold War eras.

HIST 516. Advanced Archival Practices. 4 Units.
Advanced 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 are required. (4 units.

HIST 518. Advanced Cultural Resource Management. 4 Units.

HIST 523. Advanced Public History. 4 Units.
Advanced study of public history, focusing on museums, historic sites, libraries, archives and the diverse media employed in the production of public history. Projects and field trips are required.

HIST 524. Advanced Oral History. 4 Units.
Advanced study of oral history, focusing on the origins, issues involved in oral history, interviewing techniques and the diverse media and technologies employed in the production of oral history. Advanced oral history projects are required.

HIST 535. Studies in European National History. 4 Units.
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.

HIST 540. Constitutional History of the United States. 4 Units.
Prerequisites: HIST 200 or HIST 201, or PSCI 410 or consent of instructor
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.

HIST 541. U.S. Citizenship and the Law. 4 Units.
History of citizenship in the United States from colonial period to the present including global and comparative perspectives. Formerly a topic under HIST 395.

HIST 550. Senior Assessment. 2 Units.
Prerequisites: senior standing
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.
HIST 556. Foreign Relations of the United States. 4 Units.
Survey of American foreign policy with special emphasis on Americas rise to world power in the 20th century.

HIST 560. History of the American West. 4 Units.
Survey of the western expansion of the American nation.

HIST 565. Immigration and Ethnic American History. 4 Units.
Comparison of the major ethnic groups in American history, and processes of immigration, migration, and ethnic identity formation.

HIST 575. Internship in History. 4 Units.
Prerequisites: major in history and consent of the internship coordinator or department chair
Supervised work and study in work situations involving historical skills. May be repeated once for credit. Graded credit/no credit.

HIST 576. Advanced Exhibit Design. 4 Units.
Advanced examination of the theories and methods used in designing exhibits, focusing on interpretation and exhibit creation. Field trips and projects are required.

HIST 594. Research Seminar in History. 4 Units.
Prerequisites: HIST 494 or consent of instructor
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.

HIST 595B. Independent Study. 2 Units.
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
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.

HIST 595C. Independent Study. 3 Units.
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
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.

HIST 595D. Independent Study. 4 Units.
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
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.

HIST 597. Senior Honors Project. 5 Units.
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.

HIST 600. Proseminar in History. 4 Units.
Prerequisites: consent of instructor
Survey of the concepts and ideas that historians employ to study, describe and analyze globalization.

HIST 603. Seminar in Modern Military History. 4 Units.
Analyses of selected military operations since World War II. May be repeated once for credit, as topics change, with consent of students advisor.

HIST 630. California Water History. 4 Units.
History of the development of water policy in California from pre-colonization times to present.

HIST 690. Advanced Topics in History. 4 Units.
In depth study of an advanced topic in history. May be repeated for credit as topics change.

Bachelor of Arts in History

B.A. in History - Track A (Teaching Track)

Requirements (101 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 140</td>
<td>World Civilizations I, the Rise of Civilization</td>
<td>4</td>
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<tr>
<td>HIST 140</td>
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<td>4</td>
</tr>
<tr>
<td>HIST 142</td>
<td>World Civilizations II, the Civilizations of the East and West</td>
<td>4</td>
</tr>
<tr>
<td>HIST 144</td>
<td>World Civilizations III, the Expansion of Europe</td>
<td>4</td>
</tr>
<tr>
<td>HIST 200</td>
<td>United States History to 1877</td>
<td>4</td>
</tr>
<tr>
<td>HIST 201</td>
<td>United States History, 1877 to the Present</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics</td>
<td>4</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
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<tr>
<td>GEOG 100</td>
<td>Introduction to Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
<td>5</td>
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</tbody>
</table>

Upper-division History requirements (64)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HIST 305</td>
<td>Ancient and Medieval Europe</td>
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<tr>
<td>HIST 306</td>
<td>Early Modern Europe, the Renaissance to 1815</td>
<td>4</td>
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<tr>
<td>HIST 307</td>
<td>Modern Europe, 1815 to the Present</td>
<td>4</td>
</tr>
<tr>
<td>HIST 370</td>
<td>History of California</td>
<td>4</td>
</tr>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
<td>4</td>
</tr>
<tr>
<td>or HIST 384</td>
<td>Modern Middle East</td>
<td>4</td>
</tr>
<tr>
<td>HIST 594</td>
<td>Research Seminar in History</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 428</td>
<td>Medieval China</td>
<td>4</td>
</tr>
<tr>
<td>HIST 429</td>
<td>Modern China I, 1644-1911</td>
<td>4</td>
</tr>
<tr>
<td>HIST 431</td>
<td>Modern China II, 1911-1949</td>
<td>4</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>HIST 432</td>
<td>Modern China III, 1949-Present</td>
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<tr>
<td>HIST 433</td>
<td>Modern Chinese History in Fiction and Film</td>
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<tr>
<td>HIST 435</td>
<td>World War II in the Pacific</td>
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<tr>
<td>HIST 440</td>
<td>Modern Japanese History</td>
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</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 385</td>
<td>Africa to 1500</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa 1500 to 1870</td>
</tr>
<tr>
<td>HIST 387</td>
<td>Africa 1870 to Present</td>
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<tr>
<td>HIST 388</td>
<td>The Rise, Decline and Legacy of Apartheid South Africa</td>
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<tr>
<td>HIST 451</td>
<td>The History of Health and Medicine in Africa</td>
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</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 390</td>
<td>History of Modern Mexico</td>
</tr>
<tr>
<td>HIST 465</td>
<td>Modern Central America</td>
</tr>
<tr>
<td>HIST 466</td>
<td>Foreign Relations of Latin America</td>
</tr>
<tr>
<td>HIST 467</td>
<td>Latin American History Through Film</td>
</tr>
<tr>
<td>HIST 469</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>HIST 470</td>
<td>Modern Latin America</td>
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</table>

Four units of upper-division coursework in history.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 340</td>
<td>African-American History, 1620-1865</td>
</tr>
<tr>
<td>HIST 341</td>
<td>African-American History, 1865-Present</td>
</tr>
<tr>
<td>HIST 342</td>
<td>American Indian History</td>
</tr>
<tr>
<td>HIST 344</td>
<td>Women in U.S. History, 1620-1865</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Women in U.S. History, 1865-Present</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Women in the Black Freedom Movement</td>
</tr>
<tr>
<td>HIST 371</td>
<td>California Indian History</td>
</tr>
<tr>
<td>HIST 391</td>
<td>Chicano History</td>
</tr>
<tr>
<td>HIST 541</td>
<td>U.S. Citizenship and the Law</td>
</tr>
<tr>
<td>HIST 565</td>
<td>Immigration and Ethnic American History</td>
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</tbody>
</table>

Twelve units of upper-division coursework in History:

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HIST 350</td>
<td>The American Colonies, 1607-1783</td>
</tr>
<tr>
<td>HIST 351</td>
<td>The Evolution of American Democracy, 1783-1840</td>
</tr>
<tr>
<td>HIST 354</td>
<td>Civil War and Reconstruction</td>
</tr>
<tr>
<td>HIST 356</td>
<td>The United States, 1877-1917</td>
</tr>
<tr>
<td>HIST 357</td>
<td>The United States, 1917-1945</td>
</tr>
<tr>
<td>HIST 358</td>
<td>United States in World War II</td>
</tr>
<tr>
<td>HIST 359</td>
<td>The United States, 1945-1980</td>
</tr>
<tr>
<td>HIST 540</td>
<td>Constitutional History of the United States</td>
</tr>
</tbody>
</table>

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.)

Total Units: 68

**B.A. in History - Track B**

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in History - Track B

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>ANTH 140</td>
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<tr>
<td>HIST 142</td>
<td>World Civilizations II, the Civilizations of the East and West</td>
</tr>
<tr>
<td>HIST 144</td>
<td>World Civilizations III, the Expansion of Europe</td>
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<tr>
<td>HIST 201</td>
<td>United States History, 1877 to the Present</td>
</tr>
<tr>
<td>HIST 494</td>
<td>Proseminar in History</td>
</tr>
<tr>
<td>HIST 594</td>
<td>Research Seminar in History</td>
</tr>
</tbody>
</table>

Forty units of other upper-division course work 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:

Total Units: 101

* 17 units also count toward meeting General Education requirements:

**European History**

A minimum of four units chosen from:

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>HIST 305</td>
<td>Ancient and Medieval Europe</td>
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<tr>
<td>HIST 306</td>
<td>Early Modern Europe, the Renaissance to 1815</td>
</tr>
<tr>
<td>HIST 307</td>
<td>Modern Europe, 1815 to the Present</td>
</tr>
<tr>
<td>HIST 320</td>
<td>History of Ancient Greece</td>
</tr>
<tr>
<td>HIST 321</td>
<td>History of Rome</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Early Medieval Europe</td>
</tr>
<tr>
<td>HIST 401</td>
<td>High Medieval Europe</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Renaissance and Reformation</td>
</tr>
</tbody>
</table>

**Asian History/Middle East**

A minimum of four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
</tr>
<tr>
<td>HIST 384</td>
<td>Modern Middle East</td>
</tr>
<tr>
<td>HIST 426</td>
<td>Ancient and Early Imperial China</td>
</tr>
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<td>HIST 428</td>
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</tr>
<tr>
<td>HIST 485</td>
<td>Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 486</td>
<td>Modern Iran</td>
</tr>
<tr>
<td>HIST 487</td>
<td>Topics in Modern Middle Eastern History</td>
</tr>
<tr>
<td>HIST 491</td>
<td>Nationalism and Conflict in the Middle East</td>
</tr>
</tbody>
</table>

**African History**

A minimum of four units chosen from:

<table>
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</thead>
<tbody>
<tr>
<td>ANTH 302</td>
<td>African Archaeology</td>
</tr>
<tr>
<td>HIST 385</td>
<td>Africa to 1500</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa 1500 to 1870</td>
</tr>
<tr>
<td>HIST 387</td>
<td>Africa 1870 to Present</td>
</tr>
<tr>
<td>HIST 388</td>
<td>The Rise, Decline and Legacy of Apartheid South Africa</td>
</tr>
<tr>
<td>HIST 389</td>
<td>Images of Africa</td>
</tr>
<tr>
<td>HIST 450</td>
<td>History of Southern Africa</td>
</tr>
<tr>
<td>HIST 451</td>
<td>The History of Health and Medicine in Africa</td>
</tr>
</tbody>
</table>

**Total Units:**

- 101 units
- 68 units
HIST 403  The Age of Absolutism and Enlightenment
HIST 405  Nazi Germany and the Holocaust
HIST 406  European Intellectual History
HIST 409  Twentieth Century Europe
HIST 410  Hitlers Europe
HIST 480  History of Christianity I
HIST 481  History of Christianity II
HIST 500  Tudor and Stuart England
HIST 501  Britain, 1688-1901
HIST 503  Europe Since 1945
HIST 535  Studies in European National History

**Latin American History**

A minimum of four units chosen from:

- HIST 390  History of Modern Mexico
- HIST 465  Modern Central America
- HIST 466  Foreign Relations of Latin America
- HIST 467  Latin American History Through Film
- HIST 469  Colonial Latin America
- HIST 470  Modern Latin America

**United States History**

A minimum of four units chosen from:

- HIST 340  African-American History, 1620-1865
- HIST 341  African-American History, 1865-Present
- HIST 342  American Indian History
- HIST 344  Women in U.S. History, 1620-1865
- HIST 345  Women in U.S. History, 1865-Present
- HIST 346  Women in the Black Freedom Movement
- HIST 350  The American Colonies, 1607-1783
- HIST 351  The Evolution of American Democracy, 1783-1840
- HIST 354  Civil War and Reconstruction
- HIST 356  The United States, 1877-1917
- HIST 357  The United States, 1917-1945
- HIST 358  United States in World War II
- HIST 359  The United States, 1945-1980
- HIST 360  American History Through Film
- HIST 368  The United States, 1960s
- HIST 371  California Indian History
- HIST 391  Chicano History
- HIST 422  20th Century Americans
- HIST 540  Constitutional History of the United States
- HIST 541  U.S. Citizenship and the Law
- HIST 556  Foreign Relations of the United States
- HIST 560  History of the American West
- HIST 565  Immigration and Ethnic American History

Up to 12 units from supporting disciplines outside the History Department may be included with approval of the advisor or department chair. Students working to develop other 24-unit concentrations may do so with the approval of the advisor and department chair.

**B.A. in History - Track C (Public and Oral History Option)**

**Requirements (80 units)**

Total units required for graduation: 180

**Requirements for the B.A. in History - Track C (Public and Oral History Option)**

- ANTH 140  World Civilizations I, the Rise of Civilization 4
- or 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
- HIST 200  United States History to 1877 4
- HIST 201  United States History, 1877 to the Present 4
- HIST 323  Introduction to Public History 4
- HIST 324  Introduction to Oral History 4
- HIST 594  Research Seminar in History 4

Twelve units of professional preparation electives selected from: 12

- ANTH 312  Historical Archaeology
- or HIST 312  Historical Archaeology
- HIST 316  Archival Practices
- or ANTH 316  Archival Practices
- HIST 318  Introduction to Cultural Resource Management
- or ANTH 318  Introduction to Cultural Resource Management
- HIST 326  Historic Preservation
- HIST 329  Topics in Public History
- HIST 330  Topics in Oral History
- ANTH 375  Museum Methods
- or HIST 375  Museum Methods
- HIST 376  Exhibit Design
- HIST 377  Historical Documentaries
- HIST 516  Advanced Archival Practices
- HIST 518  Advanced Cultural Resource Management
- HIST 523  Advanced Public History
- HIST 524  Advanced Oral History
- HIST 576  Advanced Exhibit Design

Four units chosen from: 4

- HIST 575  Internship in History (with advisory approval, may be repeated once for additional elective units)

One four-unit upper-division HIST course (330-599) with advisory approval

Four units chosen from African History: 4

- ANTH 302  African Archaeology
- HIST 385  Africa to 1500
- HIST 386  Africa 1500 to 1870
- HIST 387  Africa 1870 to Present
- HIST 388  The Rise, Decline and Legacy of Apartheid South Africa
- HIST 389  Images of Africa
- HIST 450  History of Southern Africa
- HIST 451  The History of Health and Medicine in Africa

Four units chosen from Asian History/Middle East History: 4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
</tr>
<tr>
<td>HIST 384</td>
<td>Modern Middle East</td>
</tr>
<tr>
<td>HIST 426</td>
<td>Ancient and Early Imperial China</td>
</tr>
<tr>
<td>HIST 428</td>
<td>Medieval China</td>
</tr>
<tr>
<td>HIST 429</td>
<td>Modern China I, 1644-1911</td>
</tr>
<tr>
<td>HIST 431</td>
<td>Modern China II, 1911-1949</td>
</tr>
<tr>
<td>HIST 432</td>
<td>Modern China III, 1949-Present</td>
</tr>
<tr>
<td>HIST 433</td>
<td>Modern Chinese History in Fiction and Film</td>
</tr>
<tr>
<td>HIST 435</td>
<td>World War II in the Pacific</td>
</tr>
<tr>
<td>HIST 440</td>
<td>Modern Japanese History</td>
</tr>
<tr>
<td>HIST 485</td>
<td>Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 486</td>
<td>Modern Iran</td>
</tr>
<tr>
<td>HIST 487</td>
<td>Topics in Modern Middle Eastern History</td>
</tr>
<tr>
<td>HIST 491</td>
<td>Nationalism and Conflict in the Middle East</td>
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</tbody>
</table>

Four units chosen from European History: 4

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 305</td>
<td>Ancient and Medieval Europe</td>
</tr>
<tr>
<td>HIST 306</td>
<td>Early Modern Europe, the Renaissance to 1815</td>
</tr>
<tr>
<td>HIST 307</td>
<td>Modern Europe, 1815 to the Present</td>
</tr>
<tr>
<td>HIST 320</td>
<td>History of Ancient Greece</td>
</tr>
<tr>
<td>HIST 321</td>
<td>History of Rome</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Early Medieval Europe</td>
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<tr>
<td>HIST 401</td>
<td>High Medieval Europe</td>
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<td>Renaissance and Reformation</td>
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<td>Twentieth Century Europe</td>
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<td>HIST 410</td>
<td>Hitlers Europe</td>
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<td>HIST 480</td>
<td>History of Christianity I</td>
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<td>HIST 481</td>
<td>History of Christianity II</td>
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<tr>
<td>HIST 500</td>
<td>Tudor and Stuart England</td>
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<tr>
<td>HIST 501</td>
<td>Britain, 1688-1901</td>
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<tr>
<td>HIST 503</td>
<td>Europe Since 1945</td>
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<tr>
<td>HIST 535</td>
<td>Studies in European National History</td>
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Four units chosen from Latin American History: 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST 390</td>
<td>History of Modern Mexico</td>
</tr>
<tr>
<td>HIST 465</td>
<td>Modern Central America</td>
</tr>
<tr>
<td>HIST 466</td>
<td>Foreign Relations of Latin America</td>
</tr>
<tr>
<td>HIST 467</td>
<td>Latin American History Through Film</td>
</tr>
<tr>
<td>HIST 469</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>HIST 470</td>
<td>Modern Latin America</td>
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</tbody>
</table>

Four units chosen from United States History: 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 340</td>
<td>African-American History, 1620-1865</td>
</tr>
<tr>
<td>HIST 341</td>
<td>African-American History, 1865-Present</td>
</tr>
<tr>
<td>HIST 342</td>
<td>American Indian History</td>
</tr>
<tr>
<td>HIST 344</td>
<td>Women in U.S. History, 1620-1865</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Women in U.S. History, 1865-1895</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Women in the Black Freedom Movement</td>
</tr>
<tr>
<td>HIST 350</td>
<td>The American Colonies, 1607-1783</td>
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<tr>
<td>HIST 351</td>
<td>The Evolution of American Democracy, 1783-1840</td>
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<tr>
<td>HIST 354</td>
<td>Civil War and Reconstruction</td>
</tr>
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<td>The United States, 1877-1917</td>
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<td>HIST 357</td>
<td>The United States, 1917-1945</td>
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<td>HIST 358</td>
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<td>HIST 359</td>
<td>The United States, 1945-1980</td>
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<td>American History Through Film</td>
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<td>HIST 368</td>
<td>The United States, 1960s</td>
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<td>HIST 371</td>
<td>California Indian History</td>
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<tr>
<td>HIST 391</td>
<td>Chicano History</td>
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<tr>
<td>HIST 422</td>
<td>20th Century Americans</td>
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<tr>
<td>HIST 540</td>
<td>Constitutional History of the United States</td>
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<tr>
<td>HIST 565</td>
<td>Immigration and Ethnic American History</td>
</tr>
</tbody>
</table>

Twelve units of upper-division history course work (300-599). Eight units from outside of history may be chosen with advisory approval.

Total Units 80

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:

United States history (4)

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 312</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>or HIST 312</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>HIST 340</td>
<td>African-American History, 1620-1865</td>
</tr>
<tr>
<td>HIST 341</td>
<td>African-American History, 1865-Present</td>
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<tr>
<td>HIST 344</td>
<td>Women in U.S. History, 1620-1865</td>
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<tr>
<td>HIST 565</td>
<td>Immigration and Ethnic American History</td>
</tr>
</tbody>
</table>

European history (4)

Four units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 305</td>
<td>Ancient and Medieval Europe</td>
</tr>
</tbody>
</table>

Califonia State University, San Bernardino 769
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 306</td>
<td>Early Modern Europe, the Renaissance to 1815</td>
</tr>
<tr>
<td>HIST 307</td>
<td>Modern Europe, 1815 to the Present</td>
</tr>
<tr>
<td>HIST 320</td>
<td>History of Ancient Greece</td>
</tr>
<tr>
<td>HIST 321</td>
<td>History of Rome</td>
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<td>HIST 503</td>
<td>Europe Since 1945</td>
</tr>
<tr>
<td>HIST 535</td>
<td>Studies in European National History</td>
</tr>
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<td></td>
<td><strong>Nonwestern history (4)</strong></td>
</tr>
<tr>
<td></td>
<td>Four units chosen from:</td>
</tr>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
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<td>HIST 384</td>
<td>Modern Middle East</td>
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<td>HIST 385</td>
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<td>History of Modern Mexico</td>
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</tbody>
</table>

**Electives (20)**

Twenty units of history courses, of which 12 units must be upper-division.

**Total Units** 32
Bachelor of Arts
Political Science

Minors
• Philosophy, Policy, and Economics
• Political Science
• Pre-law

Master of Arts
• National Security Studies

Certificate Programs
• Intelligence Methodology
• International Relations

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

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. 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.

Current Faculty
Donovan Chau, Associate Professor
B.A. 2000, Claremont McKenna College
M.S. 2002, Southwest Missouri State University
A.B. 1982, Harvard
M.A. 1986, Ph.D. 1993, University of California, Berkeley

Mark T. Clark, Professor
B.A. 1984, California State Polytechnic University
M.A. 1986, Ph.D. 1989, University of Southern California

Meredith Conroy, Assistant Professor
Ph.D., 2010, University of California, Santa Barbara

Antony Field, Assistant Professor
B.A. 2000, University of Hull, England
M.S. 2002, Missouri State University
Ph.D. 2010, University of Warwick

Brian P. Janiskee, Professor, Chair
B.A. 1989, Western Michigan University

Alemayehu Mariam, Professor
B.A. 1974, Augusta College
M.A. 1975, University of Northern Iowa
Ph.D. 1984, University of Minnesota
J.D. 1988, University of Maryland

Scot J. Zentner, Professor
B.A. 1988, California State University, San Bernardino

Emeriti
Richard T. Ackley, Professor
Carol F. Goss, Professor
Albert K. Karnig, Professor, President Emeritus
Brij B. Khare, Professor
Undergraduate Degree
Bachelor of Arts
• Political Science (p. 776)

Graduate Degree
Master of Arts
• National Security Studies (p. 776)

Minors
• Philosophy, Policy, and Economics (p. 748)
• Political Science (p. 779)
• Pre-law (p. 779)

Certificate Programs
• Intelligence Methodology (p. 779)
• International Relations (p. 779)

Courses
PSCI 203. American Government. 4 Units.
(GE=D2)
Political structure and processes of the American governmental system. This course meets the state code requirements in U.S. Constitution and state and local government.

PSCI 204. International Relations. 4 Units.
A survey of major regions and ideologies of the world, and of the basic concepts of foreign and security policies, international political economy, international law, and international organizations.

PSCI 300. Western Political Systems. 4 Units.
Major Western political systems.

PSCI 301. African Politics. 4 Units.
Comparative examination of domestic and foreign politics of African governments.

PSCI 304. East European Political Systems. 4 Units.
Comparative examination of the domestic and foreign policies of East European states.

PSCI 305. East Asian Politics. 4 Units.
Comparative examination of domestic and foreign politics of East Asian governments.

PSCI 306. Developing Political Systems. 4 Units.
Political systems, governmental structures, political orientation and foreign policies of developing nations.

PSCI 308. Government and Politics of the Middle East. 4 Units.
Governmental and political structures of representative states in the Middle East, including Turkey, Israel, and the Arab States.

PSCI 310. Classical Political Thought. 4 Units.
Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius.

PSCI 311. Foundations of Modern Political Thought. 4 Units.
Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke.

PSCI 313. Modern Political Thought. 4 Units.
Major political ideas of the nineteenth century.

PSCI 314. American Political Thought. 4 Units.
American political ideas from the colonial period to the present. This course meets the state code requirement in U.S. history.

PSCI 315. Post Modern Political Thought. 4 Units.
Major political ideas of the twentieth century.

PSCI 320. The Legislative Process. 4 Units.
Law-making processes in the United States and/or other selected political systems.

PSCI 325. American Foreign Policy. 4 Units.
Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age.

PSCI 326. Political Parties and Interest Groups. 4 Units.
Organization, objectives and activities of political parties and political interest groups and their functions in modern political systems.

PSCI 328. Judicial Process. 4 Units.
Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles.

PSCI 330. State and Local Politics. 4 Units.
Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in state and local government.

PSCI 332. California Government. 2 Units.
The California Constitution, government and political institutions. This course is specifically designed to meet the state code requirement in state and local government.

PSCI 340. Sex and Politics. 4 Units.
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.
PSCI 342. The Politics of Environment. 4 Units.
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.

PSCI 352A. Minority Politics: Ethnic Politics. 4 Units.
Minority groups in the American political system. May be repeated as topics change.

PSCI 352B. Minority Politics: African American Politics. 4 Units.
Minority groups in the American political system. May be repeated as topics change.

PSCI 352C. Minority Politics: Latino Politics. 4 Units.
Minority groups in the American political system. May be repeated as topics change.

PSCI 352D. Minority Politics: Asian American Politics. 4 Units.
Minority groups in the American political system. May be repeated as topics change.

PSCI 352E. Minority Politics: Native American Politics. 4 Units.
Minority groups in the American political system. May be repeated as topics change.

PSCI 375. Introduction to Political Science Research. 4 Units.
Prerequisites: PSCI 314 and MATH 110
Basic ideas and research topics used by political scientists with topics to include theory construction, research design, quantitative methods and philosophy of science.

PSCI 380. Introduction to Public Administration. 4 Units.
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. (Offered as PA 380 and PSCI 380. Students may not receive credit for both.).

PSCI 400. International Politics. 4 Units.
Selected theories and evolving patterns of international politics as developed within the nation-state system.

PSCI 410. American Constitutional Law. 4 Units.
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.

PSCI 411. The Bill of Rights. 4 Units.
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.

PSCI 412. Civil Rights. 4 Units.
Jurisprudence of the 13th, 14th and 15th Amendments as articulated by the U.S. Supreme Court.

PSCI 431. The American Presidency. 4 Units.
Office and institution of the presidency of the United States.

PSCI 484. National Security Policy. 4 Units.
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.

PSCI 500. International Law. 4 Units.
Historical basis and present trends in the development of international law.

PSCI 510. International Organization. 4 Units.
History, structure and dynamics of the United Nations and other multinational organizations.

PSCI 520. War and Politics. 4 Units.
The study of the origins and political consequences of war.

PSCI 525. Constitutional Interpretation. 4 Units.
Examination of theories and approaches to constitutional interpretation.

PSCI 528. Formulation of Public Policy. 4 Units.
Approaches to public policy analysis, emphasizing interaction between substance and process in policy development. Formerly PSCI 428.

PSCI 530. Studies in Political Theory. 4 Units.
Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change.

PSCI 535. Seminar in Constitutional Law. 4 Units.
Prerequisites: one of the following: PSCI 328, PSCI 410, PSCI 411, HIST 540 or consent of instructor
Intensive study in one or more aspects of constitutional law. May be repeated as topics change.

PSCI 540. Seminar in Comparative Politics. 4 Units.
Theories, methods, and paradigms of comparative politics. May be repeated as topics change.

PSCI 560. Intergovernmental Relations. 4 Units.
Administrative and political dynamics of relationships among national, state and local units of government.

PSCI 571. Organization of U.S. Intelligence. 1 Unit.
A self-paced study course providing detailed information about the structure, procedures and organizational principles behind the U.S. intelligence community.
PSCI 575B. Internship in Political Science. 2 Units.
Prerequisites: consent of instructor and department
Supervised work and study in public and private organizations. May be repeated once for credit. Graded credit/no credit.

PSCI 575C. Internship in Political Science. 3 Units.
Prerequisites: consent of instructor and department
Supervised work and study in public and private organizations. May be repeated once for credit. Graded credit/no credit.

PSCI 575D. Internship in Political Science. 4 Units.
Prerequisites: consent of instructor and department
Supervised work and study in public and private organizations. May be repeated once for credit. Graded credit/no credit.

PSCI 590. Seminar in International Relations. 4 Units.
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.

PSCI 592. Seminar in Government. 4 Units.
An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit as topics change.

PSCI 595B. Independent Study. 2 Units.
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.
Special topics involving library and/or field research. A total of eight units in PSCI 595 may be applied toward graduation.

PSCI 595C. Independent Study. 3 Units.
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.
Special topics involving library and/or field research. A total of eight units in PSCI 595 may be applied toward graduation.

PSCI 595D. Independent Study. 4 Units.
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.
Special topics involving library and/or field research. A total of eight units in PSCI 595 may be applied toward graduation.

PSCI 597. Senior Honors Thesis. 4 Units.
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.

PSCI 600. Theory and History of Strategy. 4 Units.
Prerequisites: PSCI 484 or equivalent
Examination of the literature on strategy, from ancient to modern times and from various cultures. Both theoretical and practical methods will be covered.

PSCI 601. Strategic Systems and Strategic Thought. 4 Units.
Prerequisites: PSCI 484 or equivalent
Evolution of strategic thought, policy, doctrine and force structure relative to national security objectives.

PSCI 602. International Security. 4 Units.
Prerequisites: PSCI 484 or equivalent
Seminar on various conceptions of international security, with emphasis on current crises in international politics.

PSCI 604. Seminar in International Law. 4 Units.
Survey of the literature and a study of the Law of the Sea, Aerospace Law, and International Regulation of the Use of Force.

PSCI 605. Topics in Strategy. 4 Units.
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 students advisor.

PSCI 606. Analysis of International Terrorism. 4 Units.
Examination of the methods used to analyze terrorist groups and patterns of international terrorism.

PSCI 609. International Relations Theory. 4 Units.
An examination of the theoretical literature on international relations, including issues of war and peace, foreign relations, and international security.

PSCI 610. Proseminar in Political Science. 4 Units.
Prerequisites: consent of instructor.
Survey of the concepts and ideas that political scientists study, with emphasis on globalization.

PSCI 611. Regional Security of Eurasia. 4 Units.
Strategic factors in Russia and other post-Soviet states, with emphasis on the relationships between the military and society.

PSCI 612. African Security. 4 Units.
Examination of security and defense issues of Africa.

PSCI 613. Middle East Security. 4 Units.
Middle East security, including its political, military, ideological, and economic components.

PSCI 614. Regional Security of East Asia. 4 Units.
Strategic factors in East Asia, with emphasis on the relationships between politics and military factors. Formerly a topic under PSCI 605.
PSCI 620. Understanding Intelligence Failure. 4 Units.
Examination of surprise attacks and the problem of intelligence failure.

PSCI 621. Strategic Intelligence. 4 Units.
Prerequisites: PSCI 571 or consent of instructor
The development and practice of national intelligence estimates and reporting. Formerly a topic under PSCI 605.

PSCI 622. Arms Control. 4 Units.
The background, history, development, and theory of arms control. Formerly a topic under PSCI 605.

PSCI 624. Politics of National Security. 4 Units.
Examination of the influence of American political institutions and processes on U.S. national security strategy. Formerly a topic under PSCI 605.

PSCI 625. American Foreign Policy. 4 Units.
Seminar on contemporary American foreign policy. May be repeated once as topics change.

PSCI 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
requirements for the b.a. in political science

total units required for graduation: 180

requirements for the b.a. in political science

psci 203 american government 4
psci 204 international relations 4
psci 314 american political thought 4

american government and politics. eight units chosen from:

psci 320 the legislative process 8

psci 326 political parties and interest groups
psci 330 state and local politics
psci 431 the american presidency
psci 528 formulation of public policy

comparative government. eight units chosen from:

psci 300 western political systems
psci 301 african politics
psci 304 east european political systems
psci 305 east asian politics
psci 306 developing political systems
psci 308 government and politics of the middle east

international relations. eight units chosen from:

psci 325 american foreign policy
psci 400 international politics
psci 484 national security policy
psci 500 international law
psci 510 international organization

political theory. eight units chosen from:

psci 310 classical political thought
psci 311 foundations of modern political thought
psci 313 modern political thought
psci 315 post modern political thought
psci 520 war and politics

public law. eight units chosen from:

psci 328 judicial process
psci 410 american constitutional law
psci 411 the bill of rights
psci 412 civil rights
psci 525 constitutional interpretation

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
psci 535 seminar in constitutional law
psci 540 seminar in comparative politics
psci 590 seminar in international relations
psci 592 seminar in government

total units 68

note: the following will count as electives only after approval by the department chair: psci 575b-e, psci 595b-e

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

master of arts in national security studies

requirements (46 units)

the master of arts in national security studies is a professionally oriented, interdisciplinary, graduate-level program housed within the college of social and behavioral sciences. the program is designed to develop an understanding of the substance and principles of defense policy analysis, strategic planning and arms control in relation to the
contemporary international environment. Flexibility within elective courses permits the student to emphasize research in national security issues of his or her special interests.

The program is relevant to established career personnel in defense analysis and related specialties, the military services, the civil service and the intelligence community. Additionally, the program is structured to provide motivated persons holding a Bachelor of Arts degree and/or Bachelor of Science degree from an accredited institution with the higher educational skills necessary for entry into the above mentioned career fields or to pursue doctoral studies.

The program is intended for evening students primarily and, therefore, classes are predominantly scheduled between 6 and 10 p.m.

**Admission to the Program**

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Satisfy the National Security Studies graduate admissions committee that sufficient preparation and a satisfactory course of study has been pursued in preparation for graduate study. The GRE General Test is required;
3. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 (“B”) in the student’s undergraduate major;
4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents:

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 484</td>
<td>National Security Policy (prerequisite for the core courses)</td>
<td>4</td>
</tr>
</tbody>
</table>

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 1 or 2:
   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 in Graduate Degree and Program Requirements (p. 60).

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 698A-Z, 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 484</td>
<td>National Security Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

Degree Requirements (46 units)

Core courses (20)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 600</td>
<td>Theory and History of Strategy</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 601</td>
<td>Strategic Systems and Strategic Thought</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 592</td>
<td>Seminar in Government (:Research Methods)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 611</td>
<td>Operations Analysis (Note: Math 611 requires a prerequisite of a statistics course.)</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 602</td>
<td>International Security</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 609</td>
<td>International Relations Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 624</td>
<td>Politics of National Security</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 625</td>
<td>American Foreign Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

Field (8)

Students shall choose a field concentration and associated course work in consultation with their faculty advisor. Fields will consist of eight units, minimum, in regional or functional areas of concentration.

Electives (16-18)

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 554</td>
<td>Terrorism</td>
<td>4</td>
</tr>
</tbody>
</table>

Culminating Experience (2)

Students must complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 999</td>
<td>Comprehensive Examination</td>
<td>0</td>
</tr>
<tr>
<td>PSCI 699</td>
<td>Thesis</td>
<td>2</td>
</tr>
</tbody>
</table>

Forty-four units of course work and two units of thesis must be completed before the degree will be awarded.

Total Units: 46-48

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.
Minor in Political Science

Requirements (32 units)

Requirements for a minor in Political Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 203</td>
<td>American Government</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 204</td>
<td>International Relations</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 314</td>
<td>American Political Thought</td>
<td>4</td>
</tr>
</tbody>
</table>

Twenty units of upper-division political science course work chosen in consultation with an advisor.

Total Units 32

Minor in Pre-Law

Requirements (28 units)

Requirements for a minor in Pre-law

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 328</td>
<td>Judicial Process</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 410</td>
<td>American Constitutional Law</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 411</td>
<td>The Bill of Rights</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 535</td>
<td>Seminar in Constitutional Law</td>
<td>4</td>
</tr>
</tbody>
</table>

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 370</td>
<td>Law and the Courts</td>
</tr>
<tr>
<td>CJUS 580</td>
<td>Juvenile Justice System</td>
</tr>
<tr>
<td>HIST 540</td>
<td>Constitutional History of the United States</td>
</tr>
<tr>
<td>MGMT 330</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>PA 472</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>PSCI 500</td>
<td>International Law</td>
</tr>
<tr>
<td>PHIL 362</td>
<td>Philosophy of Law</td>
</tr>
</tbody>
</table>

Total Units 28

Certificate in Intelligence Methodology

Requirements (26 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Prerequisite: 1. Graduate Standing

Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 484</td>
<td>National Security Policy</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 592</td>
<td>Seminar in Government</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 621</td>
<td>Strategic Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 308</td>
<td>Advanced Geographic Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>or GEOG 402</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>PSCI 606</td>
<td>Analysis of International Terrorism</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 620</td>
<td>Understanding Intelligence Failure</td>
<td></td>
</tr>
<tr>
<td>MATH 611</td>
<td>Operations Analysis</td>
<td></td>
</tr>
<tr>
<td>SSCI 695B-D</td>
<td>Directed Graduate Studies (Research or Intern Project for a maximum of 8 units)</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 26

Certificate in International Relations

Requirements (32 units)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Certificate Requirements

Twenty units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PSCI 300</td>
<td>Western Political Systems</td>
<td></td>
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<tr>
<td>PSCI 301</td>
<td>African Politics</td>
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<tr>
<td>PSCI 304</td>
<td>East European Political Systems</td>
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<tr>
<td>PSCI 305</td>
<td>East Asian Politics</td>
<td></td>
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<tr>
<td>PSCI 306</td>
<td>Developing Political Systems</td>
<td></td>
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<tr>
<td>PSCI 308</td>
<td>Government and Politics of the Middle East</td>
<td></td>
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<tr>
<td>PSCI 325</td>
<td>American Foreign Policy</td>
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<tr>
<td>PSCI 400</td>
<td>International Politics</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>PSCI 484</td>
<td>National Security Policy</td>
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<tr>
<td>PSCI 500</td>
<td>International Law</td>
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<td>PSCI 510</td>
<td>International Organization</td>
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<tr>
<td>PSCI 540</td>
<td>Seminar in Comparative Politics</td>
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<tr>
<td>PSCI 590</td>
<td>Seminar in International Relations</td>
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Twelve units chosen from:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON 430</td>
<td>International Economics</td>
</tr>
<tr>
<td>ECON 435</td>
<td>Multinational Corporations</td>
</tr>
<tr>
<td>ECON 450</td>
<td>Global Economy</td>
</tr>
<tr>
<td>FIN 433</td>
<td>International Business Finance</td>
</tr>
<tr>
<td>FIN 534</td>
<td>Export-Import Financing</td>
</tr>
<tr>
<td>HIST 503</td>
<td>Europe Since 1945</td>
</tr>
<tr>
<td>HIST 556</td>
<td>Foreign Relations of the United States</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Managing Across Borders</td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Business Law</td>
</tr>
<tr>
<td>MGMT 407</td>
<td>Comparative Management Systems of the Americas</td>
</tr>
<tr>
<td>MKTG 470</td>
<td>International Marketing Management</td>
</tr>
<tr>
<td>SSCI 300</td>
<td>Nonwestern World</td>
</tr>
</tbody>
</table>

Total Units: 32
Department of Psychology

Social and Behavioral Sciences Building, Room 425
(909) 537-5570 Department of Psychology website (http://psychology.csusb.edu)

Bachelor of Arts

- Psychology
- Psychology - Biological Psychology

Minor

Psychology

Master of Arts

- Child Development
- Psychology

Master of Science

- Psychology

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.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSYC 597</td>
<td>Honors Seminar</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 598A</td>
<td>Honors Project I</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 598B</td>
<td>Honors Project II</td>
<td>2</td>
</tr>
</tbody>
</table>

Students interested in this recognition must file a formal application for enrollment in the Psychology Honors Program at the end of their junior year.

Human Development

Social and Behavioral Sciences Building, Room 425
(909) 537-5570 Department of Psychology (http://psychology.csusb.edu)

Bachelor of Arts

- Human Development
  - Child Development Track
  - School Age Track
  - Lifespan Track

Master of Arts

- Child Development
The human development major is an interdisciplinary program of study of the processes and changes that characterize human development. The major provides an important advantage of promoting an holistic and interdisciplinary approach to human growth and development that no single discipline can offer. Course offerings are drawn primarily from human development, psychology, sociology and anthropology, with electives available from other departments.

Students selecting the Bachelor of Arts degree in Human Development, with the study of human development and behavior as its major theme, typically choose careers related to working with people when they graduate, e.g., education, social services, counseling and guidance or in health delivery settings. The major also provides academic preparation for graduate-level training in related fields, including human or child development, family studies, psychology, social work, law, gerontology, human ecology, and education.

The following three tracks are available for students working toward a Bachelor of Arts in Human Development.

The Child Development Track is designed to provide students with a solid background in child growth and development, and includes the option of focusing on early childhood education. This track prepares students for occupations or professions that call for child development specialists, e.g., early childhood education, infant and toddler specialists, and other positions involving work with children and families. This track will also prepare students for graduate level training in related fields (e.g., a multiple subjects teaching credential). The Infant/Toddler Lab and CSUSB Children’s Center are integral components of this track, and are used as observation and practicum sites for students. Students selecting this track may also earn Child Development Master Teacher and Site Supervisor Permits (i.e., early childhood teaching and administrative credentials).

The School Age Track is designed for students who plan to pursue an elementary teaching credential. This track is comprised of two components:

1. general education requirements, and
2. child development coursework designed to prepare students with a solid foundation in child growth and development.

The latter includes coursework in child assessment, child guidance, developmentally-appropriate practices with children, cognitive development, individual differences in learning style, the value of play, parenting and family relations, and exceptional development.

The Lifespan Track is designed for students who wish to obtain a broad interdisciplinary background of human development and behavior across the life span. Because this track does emphasize adulthood and aging,
this would be an ideal track for students pursuing work with late adulthood populations.

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.

**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:

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<tr>
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<td>HD 597</td>
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<td>HD 598B</td>
<td>Honors Project II</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

**M.A. in Child Development**

Social and Behavioral Sciences Building, Room 425

(909) 537-5570 Department of Psychology website (http://psychology.csusb.edu)

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.

**Current Faculty**

Mark D. Agars, Professor  
B.A. 1992, Sienna College  
M.S. 1996, Ph.D. 1999, Pennsylvania State University  

Manijeh Badiee, Assistant Professor, Ph.D., 2012, University of Nebraska-Lincoln  

Kelly Campbell, Associate Professor  
B.A. 2000, M.A. 2003, University of British Columbia  
Ph.D. 2008, University of Georgia  

David V. Chavez, Professor  
A.B. 1982, Harvard  
M.A. 1986, Ph.D. 1993, University of California, Berkeley  

Yuchin Chien, Professor, Associate Chair  

B.S. 1975, Chengchi University (Taiwan Intl.)  
M.S. 1979, Ph.D. 1983, Cornell University  

John P. Clapper, Associate Professor  
B.A. 1983, State University of New York at Buffalo  
Ph.D. 1988, Stanford University  

Cynthia A. Crawford, Professor  
B.A. 1985, Washington University  
M.A. 1989, Ph.D. 1992, University of Kentucky  

Robert G. Cupp, Lecturer  
B.A. 1986, M.A. 1989, California State University, San Bernardino  

Donna Garcia, Associate Professor  
B.A. 1999, Wilfrid Laurier University  
M.A. 2001, University of Guelph  
Ph.D. 2006, University of Kansas  

Janelle Gilbert, Associate Professor  
B.A. 1988, New York University  
M.A. 1990, Ph.D. 1994, George Mason University  

Cari Goetz, Assistant Professor  
B.S. 2006, University of California, Los Angeles  
Ph.D. 2014, University of Texas, Austin  

Christina Hassija, Assistant Professor  
Ph.D. 2011, University of Wyoming  

Sergio Iñiguez, Associate Professor  
B.A. 2002, M.A. 2007, California State University, San Bernardino  
Ph.D. 2011, Florida State University  

N. Laura Kamptner, Professor  
B.S. 1976, San Diego State University  
M.S. 1979, University of California, Davis  
Ph.D. 1984, Michigan State University  

Hideya Koshino, Professor  
B.A. 1983, M.A. 1985, International Christian University, Tokyo  
Ph.D. 1994, University of Kansas  

Janet L. Kottke, Professor  
B.A. 1978, Wartburg College  
M.S. 1981, Ph.D. 1985, Iowa State University  

Jacqueline Leventon, Assistant Professor  
B.S. 2008, University of Maryland  
M.S. 2011, Emory University  

Michael Lewin, Associate Professor  
B.A. 1983, State University of New York, Albany  
M.S. 1987, Ph.D. 1992, Oklahoma State University  

Sanders McDougall, Professor  
B.A. 1979, M.A. 1981, West Washington University  
Ph.D. 1988, University of Kentucky  

Matthew Quinlan, Lecturer  
B.A. 2000, Loyola Marymount University  
M.A. 2005, University of California, Santa Barbara  
Ph.D. 2009, Concordia University  

Jason Reimer, Professor
Undergraduate Degrees

Bachelor of Arts
- Human Development
- Child Development Track (p. 798)
- School Age Track (p. 800)
- Lifespan Track (p. 799)
- Psychology (p. 803)
- Psychology - Biological Psychology (p. 804)

Graduate Degrees

Master of Arts
- Child Development (p. 805)
- General Experimental Psychology (p. 807)

Master of Science
- Psychology (p. 808) with concentrations in:
  - Clinical Counseling
  - Industrial/Organizational

Minor
- Psychology (p. 810)

Child Development Courses

CD 531. Understanding and Guiding Child Behavior. 2 Units.
Study of child behavior and guidance strategies.

CD 532. Best Practice with Young Children. 2 Units.
Best practice with children and families using evidence-based strategies. Topics may include dual language development, family and community engagement, learning environments and curriculum, and special needs inclusion.

CD 611B. Advanced Independent Study. 2 Units.
Prerequisites: PSYC 640 and consent of psychology department. 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 611B.
CD 611C. Advanced Independent Study. 3 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 611C.

CD 611D. Advanced Independent Study. 4 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 611D.

CD 611E. Advanced Independent Study. 5 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 611E.

CD 612B. Directed Readings. 2 Units.
Prerequisites: graduate standing and consent of psychology department
Supervised readings of special topics under the direction of a faculty
member. Formerly HD 612B.

CD 612C. Directed Readings. 3 Units.
Prerequisites: graduate standing and consent of psychology department
Supervised readings of special topics under the direction of a faculty
member. Formerly HD 612C.

CD 612D. Directed Readings. 4 Units.
Prerequisites: graduate standing and consent of psychology department
Supervised readings of special topics under the direction of a faculty
member. Formerly HD 612D.

CD 612E. Directed Readings. 5 Units.
Prerequisites: graduate standing and consent of psychology department
Supervised readings of special topics under the direction of a faculty
member. Formerly HD 612E.

CD 614. Theories of Child Development. 4 Units.
Prerequisites: classified standing in the M.A. in Child Development and
consent of department
Overview of major child development theories. Formerly HD 614.

CD 624. Advanced Developmental Neuroscience. 4 Units.
Survey of the psychobiological foundations of human behavioral development throughout the lifespan. Special emphasis on the neurobiological bases of developmental disorders and the integration of relationships between behavior and biological processes including genes, physiology, and the environment.

CD 645. Advanced Infancy and Early Childhood Development. 4 Units.
Prerequisites: classified standing and consent of psychology department
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.

CD 646. Advanced Middle Childhood and Adolescent Development. 4 Units.
Prerequisites: classified standing and consent of department
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.

CD 648. Social-Emotional Development. 4 Units.
Prerequisites: classified graduate standing in M.A. in Child Development, Psychology M.A. or M.S. degree programs, and consent of psychology department
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.

CD 651. Advanced Cognitive Development. 4 Units.
Prerequisites: classified standing and consent of psychology department
Research 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.

CD 659. Early Childhood Assessment. 4 Units.
Prerequisites: classified graduate standing or consent of psychology department
Review of major approaches to early childhood assessment practices. Formerly HD 659.

CD 689B. Externship in Child Development. 2 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 689B.

CD 689C. Externship in Child Development. 3 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 689C.
CD 689D. Externship in Child Development. 4 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 689D.

CD 689E. Externship in Child Development. 5 Units.
Prerequisites: PSYC 640 and consent of psychology department
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 689D.

CD 690. Families and Planning. 4 Units.
Prerequisites: classified graduate standing
A review of research on selected topics related to family and parenting
issues, and the relation of such to child development. Formerly HD 690.

CD 695. Graduate Project. 5 Units.
Prerequisites: PSYC 611, PSYC 640, advancement to candidacy and
consent of instructor
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.

CD 699. Thesis. 5 Units.
Prerequisites: HD 640 or PSYC 641, advancement to candidacy, and
consent of psychology department
Independent graduate research conducted under the guidance of the
major advisor and resulting in a written thesis.

CD 999. Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy and consent of psychology
department, completion of coursework in the M.A. in Child Development,
and in good academic standing
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.

Human Development Courses

HD 205. Diversity in Child Development. 4 Units.
Prerequisites: HD 240, PSYC 201 or 240
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.

HD 215. Child, Family, and Community. 4 Units.
Prerequisites: HD 240, PSYC 201 or 240
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.

HD 240. Introduction to Child Development. 4 Units.
Comprehensive introduction to child development from conception
through adolescence. Emphasis is on physical, cognitive social, emotional
and language development. (Offered as HD 240 and PSYC 240. Students
may not receive credit for both.).

HD 245. Observation and Methods in Child Development: Early Childhood. 2 Units.
Prerequisite/Corequisite: HD 240
Introduction to observational methodologies and techniques used in the
study of early childhood behavior. Students will observe, record, analyze
and interpret early childhood behavior as they relate to developmental
principles, theories and current research.

HD 246. Observation and Methods in Child Development: Middle Childhood. 2 Units.
Prerequisite/Corequisite: HD 240
Introduction to observational methodologies and techniques used in the
study of middle childhood behavior. Students will observe, record, analyze
and interpret middle childhood behavior as they relate to developmental
principles, theories and current research.

HD 247. Observation and Methods in Child Development: Adolescence. 2 Units.
Prerequisite/Corequisite: HD 240
Introduction to observational methodologies and techniques used in the
study of adolescent behavior. Students will observe, record, analyze
and interpret adolescent behavior as they relate to developmental
principles, theories and current research.

HD 270. Infant and Toddler Development. 4 Units.
Prerequisites: PSYC 100 and current TB test
Prenatal, neonatal, infant, and toddler development through age two.
Formerly PSYC 270.

HD 271. Group Education and Care of Infants and Toddlers. 4 Units.
Prerequisites: HD 270
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 relationships,
and components of physical space will also be addressed.

HD 272. Curriculum and Programs for Infants and Toddlers. 4 Units.
Prerequisites: HD 270
Methods, materials and activities in group care settings for infants and
toddlers.

HD 280. Early Childhood Development. 4 Units.
Prerequisites: PSYC 100
Physical, social, emotional, and intellectual development of the young
child from ages two to eight.

HD 281. Guidance of Young Children. 4 Units.
Prerequisites: HD 280
Child guidance theories and their implications for communicating and
interacting with young children, for guiding child behavior, and for
designing early childhood settings. Formerly HD 281A.
HD 282. Early Childhood Curriculum and Programs. 4 Units.  
Prerequisites: HD 281 and HD 291  
Methods, materials, and activities in early childhood education. Formerly HD 282A.

HD 291. Interactions with Young Children: Laboratory. 2 Units.  
Prerequisites: HD 270 or HD 280, concurrent or prior enrollment in either HD 271 or HD 281, and current TB test  
Supervised experience focusing on developmentally appropriate practices in communicating and interacting with young children and guiding child behavior. Six hours laboratory. Formerly HD 281B.

HD 292. Curriculum and Program: Laboratory. 2 Units.  
Prerequisites: HD 271 or HD 281, concurrent enrollment in HD 272 or HD 282, and current TB test  
Supervised experience focusing on planning, implementing, and evaluating curriculum activities with young children. Six hours laboratory. Formerly HD 282B.

HD 302. History of Childhood. 4 Units.  
Historical survey of childhood within the contexts of family and society.

HD 304. Theories of Play. 4 Units.  
Prerequisites: PSYC 201 (or equivalent) or HD 280 or PSYC 280  
Interdisciplinary survey of theories of play and their applications to child development.

HD 310. Applied Research Methods. 4 Units.  
Prerequisites: PSYC 100 and PSYC 210  
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. (Offered as HD 310 and PSYC 310. Students may not receive credit for both.)

HD 315. The School-Aged Child. 3 Units.  
Corequisites: EELB 310  
An interdisciplinary perspective of school-aged childrens (5-12 years old) physical, cognitive, social and emotional development in educational settings. Emphasis will be placed on linking childrens developmental characteristics with the school environment and developmentally-appropriate classroom practices. Requires five hours of observation and participation in a public elementary school classroom.

HD 324. Developmental Psychobiology. 4 Units.  
Prerequisites: PSYC 100  
Psychobiological bases of human behavioral development throughout the life span. (Also offered as HD 324. Students may not receive credit for both.)

HD 372. Psychology of Death and Dying. 4 Units.  
Prerequisites: PSYC 201 or equivalent  
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.)

HD 400. Child Assessment. 5 Units.  
Prerequisites: one of the following: HD 240, HD 280, PSYC 201 or PSYC 240; and one of the following: HD 245, HD 246 or HD 247  
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 PSYC 400. Students may not receive credit for both.)

HD 460. Adult Assessment. 4 Units.  
Prerequisites: PSYC 329 or SOC 330 or HSCI 423, or consent of instructor  
Theory, issues, and procedures in assessment of physical, cognitive, social and emotional functioning in adulthood and old age.

HD 480. Advanced Human Development. 4 Units.  
Prerequisites: senior standing, 12 units of course work in human growth and development  
Theory and research on physical, social, psychological and cultural aspects of human development from an interdisciplinary perspective. Formerly HD 580.

HD 513. Motivation and Behavior Management of Children. 3 Units.  
Prerequisites: upper-division or graduate status  
Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Topics 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.

HD 520. Intergenerational Aspects of Human Development. 4 Units.  
Theory and research on the processes through which family members of different generations influence one another's development.

HD 530. Issues in Early Childhood Education. 4 Units.  
Prerequisites: upper-division or graduate status  
Current theories, research and methodology in early childhood education with an emphasis on practice with children and families. Formerly a topic under HD 582D.

HD 540. Work, Retirement and Leisure. 4 Units.  
Prerequisites: PSYC 100  
Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.)

HD 550. Development of Intimate Relationships. 4 Units.  
Prerequisites: upper division or graduate standing in Human Development/Child Development or Psychology  
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 580.
HD 575. Internship. 4 Units.
Prerequisites: consent of instructor and department
Supervised work and study in private and public organizations. May be repeated once for credit. Only four units may be applied to upper-division credit in the Human Development major. Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course (see Human Development coordinator). Graded credit/no credit.

HD 582A. Special Topics in Human Development. 1 Unit.
Prerequisites: upper-division or graduate standing
An intensive study of selected topics related to human development. May be repeated for credit as topics change.

HD 582B. Special Topics in Human Development. 2 Units.
Prerequisites: upper-division or graduate standing
An intensive study of selected topics related to human development. May be repeated for credit as topics change.

HD 582C. Special Topics in Human Development. 3 Units.
Prerequisites: upper-division or graduate standing
An intensive study of selected topics related to human development. May be repeated for credit as topics change.

HD 582D. Special Topics in Human Development. 4 Units.
Prerequisites: upper-division or graduate standing
An intensive study of selected topics related to human development. May be repeated for credit as topics change.

HD 582E. Special Topics in Human Development. 5 Units.
Prerequisites: upper-division or graduate standing
An intensive study of selected topics related to human development. May be repeated for credit as topics change.

HD 585. Student Teaching in Early Childhood Education. 4 Units.
Prerequisites: HD 272 or 282, and 292, consent of instructor and department and current TB test
Supervised teaching in early childhood education programs. Formerly HD 585D. Graded credit/no credit.

HD 595B. Independent Study. 2 Units.
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
Special topics involving literature or field study. A total of eight units of HD 595 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major.

HD 595C. Independent Study. 3 Units.
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
Special topics involving literature or field study. A total of eight units of HD 595 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major.

HD 595D. Independent Study. 4 Units.
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
Special topics involving literature or field study. A total of eight units of HD 595 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major.

HD 597. Honors Seminar. 4 Units.
Prerequisites: PSYC 311 and consent of department
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. (Offered as HD 597 and PSYC 597. Students may not receive credit for both.).

HD 598A. Honors Project I. 2 Units.
Prerequisites: PSYC 597 and consent of department
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. (Offered as HD 598A and PSYC 598A. Students may not received credit for both.).

HD 598B. Honors Project II. 2 Units.
Prerequisites: PSYC 598A and consent of department
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. (Offered as HD 598B and PSYC 598B. Students may not received credit for both.).

Psychology Courses

PSYC 100. Introduction to Psychology. 4 Units.
(GE=D4)
A survey of the field of modern psychology.

PSYC 101. Psychology as a Major. 1 Unit.
Prerequisites: PSYC 100
A survey of different areas of specialization and professional activities of psychologists. Graded credit/no credit.

PSYC 105. Critical Thinking Through Problems Analysis. 4 Units.
(GE=A4)
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.
PSYC 115. Personal and Social Adjustment. 2 Units.
(GE=E2)
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.

PSYC 120. Career Development. 2 Units.
Examination of the world of work and individual self-assessments, including exploration of career aspirations and goals.

PSYC 201. Developmental Psychology. 4 Units.
Prerequisites: PSYC 100
Introduction to the psychological development of the person from the prenatal period through old age.

PSYC 210. Psychological Statistics. 5 Units.
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: ADMN 210, PSYC 210, or SSCI 215. Four hours lecture and three hours of laboratory.

PSYC 240. Introduction to Child Development. 4 Units.
Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive social, emotional and language development. (Offered as HD 240 and PSYC 240. Students may not receive credit for both.).

PSYC 301. Psychology of Human Sexuality. 4 Units.
Theory and empirical findings from the areas of social, developmental, physiological, and clinical psychology as they apply to human sexual behavior.

PSYC 302. Management and Organizational Behavior. 4 Units.
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. Offered as MGMT 302 and PSYC 302. Students may not receive credit for both.

PSYC 303. Parenting and Family Relations. 4 Units.
Prerequisites: PSYC 100 and PSYC 201 or equivalent
Effects of parenting and intra-family relations on child and life-span psychological development.

PSYC 305. Language Development. 4 Units.
Prerequisites: HD 240 or PSYC 201 or 240
An introduction to theory and research on the psychological study of language, first language acquisition, and the relation of language to thought and culture.

PSYC 308. Psychology and the Movies. 4 Units.
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.

PSYC 310. Applied Research Methods. 4 Units.
Prerequisites: PSYC 100 and PSYC 210
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. (Offered as HD 310 and PSYC 310. Students may not receive credit for both.).

PSYC 311. Introduction to Experimental Psychology. 6 Units.
Prerequisites: PSYC 100 and 210; restricted to psychology majors, human development majors, human services majors or consent of department
Design and execution of psychological research. Four hours lecture and six hours laboratory.

PSYC 315. Communication Processes. 5 Units.
Prerequisites: PSYC 100
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.

PSYC 318. Health Psychology. 4 Units.
Prerequisites: PSYC 100
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.

PSYC 320. Psychology of Middle Childhood. 4 Units.
Theories and their applications to physical, cognitive, social and emotional development during the middle childhood years. A field based component will be required.

PSYC 324. Developmental Psychobiology. 4 Units.
Prerequisites: PSYC 100
Psychobiological bases of human behavioral development throughout the life span. (Also offered as HD 324. Students may not receive credit for both.).

PSYC 328. Psychology of Adolescent Development. 4 Units.
Theory and empirical literature concerning the physical, cognitive, social, and emotional changes from puberty to adulthood. A field based component will be required.
PSYC 329. Psychology of Adulthood and Aging. 4 Units.
Prerequisites: PSYC 100 and PSYC 201, or consent of instructor
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.

PSYC 331. The Psychology of Women. 4 Units.
Prerequisites: PSYC 100
A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images.

PSYC 333. Drugs and Behavior. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 334. Addiction and Recovery. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 339. Human Psychophysiology. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 340. Stereotyping, Prejudice and Discrimination. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 341. Women and Violence. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 345. Cross-Cultural Psychology. 4 Units.
Cross-cultural psychology focusing on cultural variability in basic psychological processes and the cultural limits of traditional psychological theories.

PSYC 349. The Psychology of Gays and Lesbians. 4 Units.
Analysis of theories and research on homosexuality, social reactions to homosexuality, and gay and lesbian cultural adaptations.

PSYC 350. Development of Exceptional Children. 4 Units.
Prerequisites: HD 240, HD 280, or PSYC 201
Review of theory, assessment, management, and rehabilitation of exceptional children. Includes developmental implications of specific medical conditions, retardation, and learning/cognitive dysfunctions.

PSYC 351. Behavior Modification: Principles and Applications. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
Analysis of the theory, techniques and ethics of behavior modification.

PSYC 355. Industrial Psychology. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors.

PSYC 357. History and Systems of Psychology. 4 Units.
Prerequisites: PSYC 100
A historical framework for integrating basic orientations in contemporary psychology, including the development of the major schools of thought in psychology.

PSYC 358. Cognitive Development. 4 Units.
Prerequisites: PSYC 100 and PSYC 201
Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from childhood through adulthood.

PSYC 360. Cognitive Psychology. 4 Units.
Prerequisites: PSYC 100
Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes.

PSYC 361. Intelligence and Creativity. 4 Units.
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.

PSYC 362. Learning and Motivation. 4 Units.
Prerequisites: PSYC 100
Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles.

PSYC 363. Biological Psychology. 4 Units.
Prerequisites: PSYC 100
Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory and motivation.

PSYC 364. Perception. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
Selected topics in the field of perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects.
PSYC 365. Cognitive Neuroscience. 4 Units.
Prerequisites: PSYC 363 or consent of instructor
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.

PSYC 367. Neuropsychiatric Disorders. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
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.

PSYC 368. MARC Seminar I. 2 Units.
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 368, 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.

PSYC 370. Topics in Psychology. 2 Units.
Prerequisites: PSYC 100
Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change.

PSYC 372. Psychology of Death and Dying. 4 Units.
Prerequisites: PSYC 201 or equivalent
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.

PSYC 375. Seminar in Psychology. 4 Units.
Prerequisites: PSYC 100
Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change.

PSYC 377. Tests and Measurements. 4 Units.
Prerequisites: PSYC 100 and PSYC 210
Administration of psychological tests and scales; interpretation and use of the data which they yield.

PSYC 381. Forensic Psychology. 4 Units.
Prerequisites: PSYC 100
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.

PSYC 382. Psychology of Social Behavior. 4 Units.
Prerequisites: PSYC 100
Major concepts, issues and psychological research regarding social influence on individual behavior.

PSYC 383. Personality and Social Development. 4 Units.
Prerequisites: PSYC 100 and PSYC 201 or equivalents
Development of personality, emotions and social behavior from childhood through adulthood.

PSYC 385. Personality. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
Survey of the major theories of personality.

PSYC 386. Introduction to Psychotherapy. 4 Units.
Prerequisites: PSYC 100
Introduction to theories, methods and research in psychotherapy.

PSYC 387. Community Psychology. 4 Units.
Prerequisites: PSYC 100
Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs.

PSYC 390. Abnormal Psychology. 4 Units.
Prerequisites: PSYC 100 or consent of instructor
An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders.

PSYC 391. Psychopathology of Childhood. 4 Units.
Prerequisites: PSYC 100 and PSYC 201
Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment.

PSYC 395. Psychology of Consciousness. 4 Units.
Prerequisites: PSYC 100
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.

PSYC 400. Child Assessment. 5 Units.
Prerequisites: one of the following: HD 240, HD 280, PSYC 201 or PSYC 240; and one of the following: HD 245, HD 246 or HD 247
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 PSYC 400. Students may not receive credit for both.

PSYC 410. Advanced Psychological Statistics. 5 Units.
Prerequisites: ADMN 210 or PSYC 210 or consent of instructor
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.

PSYC 421. Advanced Seminar in Psychology: Developmental. 4 Units.
Prerequisites: PSYC 201 and PSYC 311 or consent of instructor
A review of selected research areas in the fields of child and life-span developmental psychology. Students will develop an advanced project.
PSYC 422. Advanced Seminar in Psychology: Clinical. 4 Units.
Prerequisites: PSYC 311, PSYC 386, and PSYC 390
Contemporary topics in clinical psychology, such as integrative treatment approaches, outcome research, psychopathology, adaptation and coping, health promotion, cultural factors in diagnosis and treatment, and common factors in effective treatment such as the working alliance and other relationship factors. Students will develop an advanced project.

PSYC 423. Advanced Seminar in Psychology: Biological. 4 Units.
Prerequisites: PSYC 311 and 363 or consent of instructor
A review of the literature regarding the neural and endocrine processes underlying brain function and behavior. Students will develop an advanced project.

PSYC 424. Advanced Seminar in Psychology: Social. 4 Units.
Prerequisites: PSYC 311 and PSYC 382 or consent of instructor
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.

PSYC 425. Advanced Seminar in Psychology: Personality. 4 Units.
Prerequisites: PSYC 311 and 385
A review of contemporary personality theories and the relationship of personality to behavior. Students will develop an advanced project.

PSYC 426. Advanced Seminar in Psychology: Learning and Motivation. 4 Units.
Prerequisites: PSYC 311 and 362, or consent of instructor
A review of selected theories and research in areas of learning and motivation. Students will develop an advanced project.

PSYC 427. Advanced Seminar in Psychology: Cognition and Perception. 4 Units.
Prerequisites: PSYC 311 and either PSYC 360 or PSYC 364
A review of human information processing, memory, thinking and perceptual processes. Students will develop an advanced project.

PSYC 428. Advanced Seminar in Psychology: Industrial and Organizational. 4 Units.
Prerequisites: PSYC 311, PSYC 377 and one of the following: MGMT 302, PSYC 302 or PSYC 355
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.

PSYC 431. Experimental Psychology: Developmental. 6 Units.
Prerequisites: PSYC 201 and PSYC 311 or consent of instructor
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.

PSYC 432. Experimental Psychology: Clinical. 6 Units.
Prerequisites: PSYC 311, and either PSYC 386 or 390
Empirical studies in clinical psychology. Study options include experimental psychopathology, adaptation and coping, health promotion, anxiety/stress, mood/emotion and cultural factors in diagnosis and treatment. Four hours lecture and six hours laboratory.

PSYC 433. Experimental Psychology: Biological. 6 Units.
Prerequisites: PSYC 311 and PSYC 363 or consent of instructor
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.

PSYC 434. Experimental Psychology: Social. 6 Units.
Prerequisites: PSYC 311 and 382
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.

PSYC 435. Experimental Psychology: Personality. 6 Units.
Prerequisites: PSYC 311, 377 and 385
Empirical study of personality theories and the relationship of personality to behavior. Four hours lecture and six hours laboratory.

PSYC 436. Experimental Psychology: Learning and Motivation. 6 Units.
Prerequisites: PSYC 311 and PSYC 362
Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Four hours lecture and six hours laboratory.

PSYC 437. Experimental Psychology: Cognition and Perception. 6 Units.
Prerequisites: PSYC 311 and either PSYC 360 or 364
Empirical study of human information processing, memory, thought and perceptual processes. Four hours lecture and six hours laboratory.

PSYC 438. Experimental Psychology: Industrial and Organizational. 6 Units.
Prerequisites: PSYC 311, 377 and one of the following: MGMT 302, PSYC 302 or 355
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.

PSYC 442. Behavioral Neuroscience. 4 Units.
Prerequisites: HD 324, PSYC 324, or PSYC 363, or consent of instructor
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.
PSYC 468. MARC Seminar II. 2 Units.
Prerequisites: NSCI 368, PSYC 368 or SSCI 368
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. Offered as NSCI 468, PSYC 368, 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.

PSYC 538. Introduction to Psychopharmacology. 4 Units.
Prerequisites: HD 324, PSYC 324, 333 or 363, or consent of instructor
Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral outcomes.

PSYC 540. Work, Retirement and Leisure. 4 Units.
Prerequisites: PSYC 100
Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.)

PSYC 575. Internship in Psychology. 4 Units.
Prerequisites: consent of instructor and department
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.

PSYC 581A. Seminar in Industrial/Organizational Psychology: Current Professional Issues. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581B. Seminar in Industrial/Organizational Psychology: Organizational Leadership. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581C. Seminar in Industrial/Organizational Psychology: Processes of Work Groups. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581D. Seminar in Industrial/Organizational Psychology: Training and Executive Development. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581E. Seminar in Industrial/Organizational Psychology: Ethical Issues in Organizations. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581F. Seminar in Industrial/Organizational Psychology: Diversity in Organizations. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 581G. Seminar in Industrial/Organizational Psychology: Legal Issues for Organizational Professionals. 2 Units.
Prerequisites: upper-division or graduate standing and consent of department
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.

PSYC 595B. Independent Study. 2 Units.
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
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.

PSYC 595C. Independent Study. 3 Units.
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
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.
PSYC 595D. Independent Study. 4 Units.
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
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.

PSYC 596. Practicum in Psychology: Peer Advising. 2 Units.
Prerequisites: consent of instructor and department
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.

PSYC 597. Honors Seminar. 4 Units.
Prerequisites: PSYC 311 and consent of department
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. (Offered as HD 597 and PSYC 597. Students may not receive credit for both.

PSYC 598A. Honors Project I. 2 Units.
Prerequisites: PSYC 597 and consent of department
Provides an opportunity for students to conduct 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. May not be used to satisfy the requirements of the psychology major. (Offered as HD 598A and PSYC 598A. Students may not receive credit for both.

PSYC 598B. Honors Project II. 2 Units.
Prerequisites: PSYC 598A and consent of department
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. (Offered as HD 598B and PSYC 598B. Students may not receive credit for both.

PSYC 601. Performance Assessment. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. degree program or consent of department
Current research and methods of performance appraisal. Topics include the study of job analysis, performance appraisal process and instrumentation, and job evaluation. Formerly PSYC 661.

PSYC 602. Organizational Development. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. degree program or consent of department
Critical review of current psychological theories and methods of organizational change. Topics include organization processes and interventions at the organizational and group levels. Formerly PSYC 660.

PSYC 603. Personnel Selection and Validation. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. degree program or consent of department
Principles and methods of personnel selection, including validation strategies and the effects of governmental and legal issues on personnel actions. Formerly PSYC 662.

PSYC 604. Work Motivation and Organizational Reward Systems. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. degree program or consent of department
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.

PSYC 609B. Graduate Research in Psychology. 2 Units.
Prerequisites: classified standing and consent of instructor
Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit.

PSYC 609C. Graduate Research in Psychology. 3 Units.
Prerequisites: classified standing and consent of instructor
Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit.

PSYC 609D. Graduate Research in Psychology. 4 Units.
Prerequisites: classified standing and consent of instructor
Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit.

PSYC 609E. Graduate Research in Psychology. 5 Units.
Prerequisites: classified standing and consent of instructor
Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit.

PSYC 611B. Advanced Independent Study. 2 Units.
Prerequisites: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students committee. May be repeated up to two times for a maximum of 15 units credit with approval of the students committee and the department chair. Only five units are required for the masters degree.
PSYC 611C. Advanced Independent Study. 3 Units.
Prerequisites: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students committee. May be repeated up to two times for a maximum of 15 units credit with approval of the students committee and the department chair. Only five units are required for the masters degree.

PSYC 611D. Advanced Independent Study. 4 Units.
Prerequisites: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students committee. May be repeated up to two times for a maximum of 15 units credit with approval of the students committee and the department chair. Only five units are required for the masters degree.

PSYC 611E. Advanced Independent Study. 5 Units.
Prerequisites: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students committee. May be repeated up to two times for a maximum of 15 units credit with approval of the students committee and the department chair. Only five units are required for the masters degree.

PSYC 612B. Directed Readings. 2 Units.
Prerequisites: graduate standing and consent of department
Special topics involving supervised readings under the direction of a faculty member.

PSYC 612C. Directed Readings. 3 Units.
Prerequisites: graduate standing and consent of department
Special topics involving supervised readings under the direction of a faculty member.

PSYC 612D. Directed Readings. 4 Units.
Prerequisites: graduate standing and consent of department
Special topics involving supervised readings under the direction of a faculty member.

PSYC 612E. Directed Readings. 5 Units.
Prerequisites: graduate standing and consent of department
Special topics involving supervised readings under the direction of a faculty member.

PSYC 613. Short-term Counseling. 4 Units.
Prerequisites: classified standing and consent of department
Counseling skills and strategies for short-term therapeutic intervention.

PSYC 614. Couples Counseling. 4 Units.
Prerequisites: classified standing and consent of department
Theory and practice of counseling with couples.

PSYC 615. Group Counseling. 4 Units.
Prerequisites: classified standing and consent of department
Theory and practice of group counseling.

PSYC 616. Child and Spousal/Partner Abuse. 4 Units.
Prerequisites: classified standing and consent of department

PSYC 617. Clinical Psychopharmacology. 4 Units.
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.

PSYC 618. Community and Public Mental Health. 4 Units.
Prerequisites: classified standing and consent of department
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.

PSYC 619. Community Disaster, Trauma and Resilience. 4 Units.
Prerequisites: classified standing and consent of department
Community disaster and trauma response as well as training in resiliency models for recovering from trauma.

PSYC 630. Teaching of Psychology. 2 Units.
Prerequisites: classified graduate status in psychology and consent of department
Instructional methods for teaching of psychology at the college level.

PSYC 631. Academic Research in Psychology. 2 Units.
Prerequisites: classified standing in Psychology M.S. degree program and consent of department
Professional issues related to academic research. Topics include how to review a journal article, submit an article, present a talk and summarize one’s research.

PSYC 633. Professional Ethics and Law. 4 Units.
Prerequisites: classified standing in Psychology M.S. degree program and consent of department
Ethical and legal considerations involved in counseling practice, including statutory law, legal trends, and ethical behavior in the mental health profession.

PSYC 636. Cross-Cultural Counseling. 4 Units.
Prerequisites: classified standing in Psychology M.S. or M.A. degree program and consent of department
Study of how cultural values and ethnic backgrounds influence counseling process and outcome, with focus on counseling with Blacks, Hispanics, Asians, and Native Americans.

PSYC 638. Substance Abuse: Detection, Assessment and Treatment. 4 Units.
Prerequisites: classified standing in Psychology M.S. or M.A. degree programs and consent of department
Assessment and treatment of substance abuse, including alcoholism and other forms of chemical dependency with a focus on etiological factors and relapse prevention.
PSYC 640. Advanced Methods in Psychological Research. 4 Units.
Prerequisites: classified standing and consent of department
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.

PSYC 641. Analysis of Variance. 5 Units.
Prerequisites: classified standing and consent of department
Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research with an emphasis on Analysis of Variance (ANOVA). Statistical computer packages will be introduced in the laboratory section. Four hours lecture and three hours laboratory. Formerly PSYC 570.

PSYC 642. Regression and Nonparametric Statistics. 4 Units.
Prerequisites: classified standing and consent of department
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.

PSYC 643. Multivariate Methods. 4 Units.
Prerequisites: PSYC 641 or equivalent, classified standing and consent of department
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.

PSYC 644. Applied Psychological Measurement. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. program or consent of department
Theories, methods, and issues of psychological measurement and assessment. Topical coverage will include test construction, test evaluation, survey development, ethics, and testing in applied settings. Formerly PSYC 663. Three hours lecture and two hours activity.

PSYC 645. Advanced Adulthood and Aging Development. 4 Units.
Prerequisites: PSYC 654 and classified graduate status
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.

PSYC 650. Advanced Cognitive Psychology. 4 Units.
Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department
Research and theories in the psychology of thinking, knowing and remembering.

PSYC 652. Advanced Learning and Motivation. 4 Units.
Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department
Major theories and research in learning and motivation with emphasis on current issues.

PSYC 654. Advanced Life-Span Developmental Psychology. 4 Units.
Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department
Examination of the developmental processes, theories, issues and research in life-span developmental psychology.

PSYC 655. Advanced Seminar in Developmental Psychology. 4 Units.
Prerequisites: classified standing and consent of department
Selected current issues and advanced topics of theoretical, research or applied interest in developmental psychology.

PSYC 656. Advanced Biological Psychology. 4 Units.
Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department
Study of biological bases of behavior with emphasis on recent research.

PSYC 658. Advanced Personality and Social Psychology. 4 Units.
Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department
Major theories, methods and empirical findings in personality and social psychology.

PSYC 664. Applied Life-Span Developmental Psychology. 4 Units.
Prerequisites: classified standing and consent of department
Conceptual, methodological and policy related issues in the application of developmental psychology to applied settings.

PSYC 665. Psychopathology. 4 Units.
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
Major types of human psychopathology, including descriptive symptomatology, etiological factors and treatment considerations.

PSYC 667. Family Processes. 4 Units.
Prerequisites: classified standing and consent of department
Normal and dysfunctional family processes, including analysis of family systems, family communication and strategies for therapeutic intervention. Formerly PSYC 666.

PSYC 671. Marriage and Family Therapy Skills I. 5 Units.
Prerequisites: classified standing in the Psychology M.S. degree program; concurrent enrollment in PSYC 687A and consent of department
Foundational skills in counseling, the therapeutic alliance, crisis management and treatment planning. Three hours lecture and six hours laboratory.
PSYC 672. Marriage and Family Therapy Skills II. 5 Units.
Prerequisites: grade of no less than B in PSYC 671; concurrent enrollment in PSYC 687B and consent of department
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.

PSYC 673. Marriage and Family Therapy Skills III. 5 Units.
Prerequisites: classified standing in the M.S. in Psychology, grade of no less than B- in PSYC 672 and PSYC 687B; concurrent enrollment in PSYC 687C and consent of department
Advanced counseling skills used with children, adolescents and their families. Three hours lecture and six hours laboratory.

PSYC 675. Practicum in Applied Psychology. 4 Units.
Prerequisites: classified graduate standing in M.A. or M.S. degree program and consent of department
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.

PSYC 678. Advanced Topics in Psychology. 2 Units.
Prerequisites: classified standing and consent of department
Selected advanced psychology topics with specific focus within relatively narrow content area. Credit may not be received twice for the same topic.

PSYC 679. Theories of Counseling and Psychotherapy. 4 Units.
Prerequisites: classified standing and consent of department
Comparative analysis of major theories related to current practice of counseling and psychotherapy.

PSYC 680. Advanced Seminar in Psychology. 4 Units.
Prerequisites: classified standing and consent of department
Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology.

PSYC 682. Clinical Assessment. 4 Units.
Prerequisites: classified standing and consent of department
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.

PSYC 684. Topics in Counseling Psychology. 4 Units.
Prerequisites: classified standing and consent of department
Selected topics within counseling psychology. May be repeated for credit as topics change.

PSYC 687A. Marriage and Family Therapy Practicum I. 2 Units.
Prerequisites: consent of department
Corequisites: concurrent enrollment in PSYC 671
Supervised counseling practicum. Graded credit/no credit.

PSYC 687B. Marriage and Family Therapy Practicum II. 2 Units.
Prerequisites: consent of department
Corequisites: concurrent enrollment in PSYC 672
Supervised counseling practicum. Graded credit/no credit.

PSYC 687C. Marriage and Family Therapy Practicum III. 2 Units.
Prerequisites: consent of department
Corequisites: concurrent enrollment in PSYC 673
Supervised counseling practicum. Graded credit/no credit.

PSYC 688. Evidence Based Practice in Marriage and Family Therapy. 4 Units.
Prerequisites: classified standing and consent of department
Selected evidence based therapy practices in Marriage and Family Therapy. Coursework will include coverage of human sexuality and treatment; psychopharmacological treatment of DSM mental disorders; brief empirically supported psychotherapies for DSM mental disorders and problems warranting clinical attention.

PSYC 689B. Externship in Applied Psychology. 2 Units.
Prerequisites: PSYC 640 and consent of department
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.

PSYC 689C. Externship in Applied Psychology. 3 Units.
Prerequisites: PSYC 640 and consent of department
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.

PSYC 689D. Externship in Applied Psychology. 4 Units.
Prerequisites: PSYC 640 and consent of department
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.

PSYC 689E. Externship in Applied Psychology. 5 Units.
Prerequisites: PSYC 640 and consent of department
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.

PSYC 691. Human Sexuality and Treatment. 4 Units.
Prerequisites: classified standing and consent of department
Study of human sexuality with emphasis on both healthy sexuality and sexual dysfunction. Clinical interventions to enhance sexual functioning and to treat sexual dysfunctions will be presented. Formerly PSYC 591.
PSYC 697A. Advanced Practicum in Counseling Psychology I. 4 Units.
Prerequisites: classified standing in the Psychology M.S. degree program, PSYC 671, PSYC 672, PSYC 687A, PSYC 687B, PSYC 687C; a grade of A or B in PSYC 673; and consent of department
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.

PSYC 697B. Advanced Practicum in Counseling Psychology II. 4 Units.
Prerequisites: classified standing in the Psychology M.S. degree program, PSYC 671, PSYC 672, PSYC 687A, PSYC 687B, PSYC 687C; a grade of A or B in PSYC 673; and consent of department
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.

PSYC 697C. Advanced Practicum in Counseling Psychology III. 4 Units.
Prerequisites: classified standing in the Psychology M.S. degree program, PSYC 671, PSYC 672, PSYC 687A, PSYC 687B, PSYC 687C; a grade of A or B in PSYC 673; and consent of department
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.

PSYC 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
PSYC 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 699. Thesis. 5 Units.
Prerequisites: PSYC 640 and/or PSYC 641; PSYC 611; advancement to candidacy and consent of department
Independent graduate research conducted under the guidance of the major advisor and resulting in a written thesis.

Bachelor of Arts 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

General Education Basic Skills in English (A1) (4)
Four units chosen from:
- ENG 104A Stretch Composition III
- ENG 104B Stretch Composition III for Multilingual Students
- ENG 106A Accelerated Stretch Composition II
- ENG 106B Accelerated Stretch Composition II for Multilingual Students
- ENG 107 Advanced First-Year Composition

General Education Basic Skills in Mathematics (A3) (4)
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

Additional Requirements (9)
- HD 240 Introduction to Child Development
- or PSYC 201 Developmental Psychology
- PSYC 210 Psychological Statistics

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)
- BIOL 100 Topics in Biology
- HD 240 Introduction to Child Development

Two units chosen from:
- HD 245 Observation and Methods in Child Development: Early Childhood
- HD 246 Observation and Methods in Child Development: Middle Childhood
- HD 247 Observation and Methods in Child Development: Adolescence
- HD 270 Infant and Toddler Development

Choose either A or B:
- Group A:
  - HD 271 Group Education and Care of Infants and Toddlers
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<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HD 272</td>
<td>Curriculum and Programs for Infants and Toddlers</td>
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<tr>
<td>HD 280</td>
<td>Early Childhood Development</td>
<td>4</td>
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<tr>
<td>HD 281</td>
<td>Guidance of Young Children</td>
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<tr>
<td>HD 282</td>
<td>Early Childhood Curriculum and Programs</td>
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<tr>
<td>HD 289</td>
<td>Interactions with Young Children: Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>HD 290</td>
<td>Curriculum and Program: Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Psychological Statistics</td>
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**Upper-division requirements (51)**

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<tbody>
<tr>
<td>ANTH 330</td>
<td>Cross-Cultural Child-Rearing Practices</td>
<td>4</td>
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<tr>
<td>or ANTH 331</td>
<td>Anthropology of Human Development</td>
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<tr>
<td>HD 310</td>
<td>Applied Research Methods</td>
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<tr>
<td>HD 324</td>
<td>Developmental Psychobiology</td>
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<td>HD 400</td>
<td>Child Assessment</td>
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<td>HD 480</td>
<td>Advanced Human Development</td>
<td>4</td>
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<tr>
<td>HD 575</td>
<td>Internship</td>
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<tr>
<td>or HD 585</td>
<td>Student Teaching in Early Childhood Education</td>
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<tr>
<td>PSYC 303</td>
<td>Parenting and Family Relations</td>
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<tr>
<td>or SOC 340</td>
<td>Sociology of the Family</td>
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<tr>
<td>PSYC 311</td>
<td>Introduction to Experimental Psychology</td>
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<td>PSYC 320</td>
<td>Psychology of Middle Childhood</td>
<td>4</td>
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<tr>
<td>or PSYC 328</td>
<td>Psychology of Adolescent Development</td>
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<tr>
<td>PSYC 350</td>
<td>Development of Exceptional Children</td>
<td>4</td>
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<tr>
<td>or PSYC 391</td>
<td>Psychopathology of Childhood</td>
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Eight units chosen from:

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<tbody>
<tr>
<td>PSYC 305</td>
<td>Language Development</td>
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<tr>
<td>PSYC 358</td>
<td>Cognitive Development</td>
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<tr>
<td>PSYC 384</td>
<td>Personality and Social Development</td>
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**Electives (4)**

Four units chosen from:

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<th>Units</th>
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<tbody>
<tr>
<td>ANTH 325</td>
<td>Human Biological Variance and the Concept of Race</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Primate Evolution and Ecology</td>
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</tr>
<tr>
<td>HD 205</td>
<td>Diversity in Child Development</td>
<td></td>
</tr>
<tr>
<td>HD 215</td>
<td>Child, Family, and Community</td>
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<tr>
<td>HD 302</td>
<td>History of Childhood</td>
<td></td>
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<tr>
<td>HD 304</td>
<td>Theories of Play</td>
<td></td>
</tr>
<tr>
<td>HD 520</td>
<td>Intergenerational Aspects of Human Development</td>
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<tr>
<td>SOC 339</td>
<td>Socialization</td>
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</table>

**Bachelor of Arts in Human Development - Lifespan Track**

Requirements (90 units)

Total units required for graduation: 180

Requirements to enter the B.A. in Human Development - Lifespan Track

General Education Basic Skills in English (A1) (4)

Four units chosen from:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENG 104A</td>
<td>Stretch Composition III</td>
<td></td>
</tr>
<tr>
<td>ENG 104B</td>
<td>Stretch Composition III for Multilingual Students</td>
<td></td>
</tr>
<tr>
<td>ENG 106A</td>
<td>Accelerated Stretch Composition II</td>
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<tr>
<td>ENG 106B</td>
<td>Accelerated Stretch Composition II for Multilingual Students</td>
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</tr>
<tr>
<td>ENG 107</td>
<td>Advanced First-Year Composition</td>
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**General Education Basic Skills in Mathematics (A3) (4)**

One of the following:

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<th>Units</th>
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<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 115</td>
<td>The Ideas of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 120</td>
<td>Pre-Calculus Mathematics</td>
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</tr>
<tr>
<td>MATH 192</td>
<td>Methods of Calculus</td>
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<tr>
<td>MATH 211</td>
<td>Basic Concepts of Calculus</td>
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**Additional Requirements (9)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HD 240</td>
<td>Introduction to Child Development</td>
<td>4</td>
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<tr>
<td>or PSYC 201</td>
<td>Developmental Psychology</td>
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</tr>
<tr>
<td>PSYC 210</td>
<td>Psychological Statistics (or its equivalent)</td>
<td>5</td>
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</tbody>
</table>

Total Units 17

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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 100</td>
<td>Topics in Biology</td>
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<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 201</td>
<td>Developmental Psychology</td>
<td>4</td>
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</table>

Four units chosen from:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 325</td>
<td>Human Biological Variance and the Concept of Race</td>
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<tr>
<td>ANTH 327</td>
<td>Primate Evolution and Ecology</td>
<td></td>
</tr>
<tr>
<td>HD 205</td>
<td>Diversity in Child Development</td>
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<tr>
<td>HD 215</td>
<td>Child, Family, and Community</td>
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<tr>
<td>HD 302</td>
<td>History of Childhood</td>
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<tr>
<td>HD 520</td>
<td>Intergenerational Aspects of Human Development</td>
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</tr>
<tr>
<td>SOC 339</td>
<td>Socialization</td>
<td></td>
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<tr>
<td>ANTH 331</td>
<td>Anthropology of Human Development</td>
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<td>HD 324</td>
<td>Developmental Psychobiology</td>
<td>4</td>
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<tr>
<td>HD 480</td>
<td>Advanced Human Development</td>
<td>4</td>
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<tr>
<td>HD 575</td>
<td>Internship</td>
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<tr>
<td>PSYC 303</td>
<td>Parenting and Family Relations</td>
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<td>or SOC 340</td>
<td>Sociology of the Family</td>
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<td>PSYC 358</td>
<td>Cognitive Development</td>
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<tr>
<td>PSYC 384</td>
<td>Personality and Social Development</td>
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**Developmental Periods (12)**

A minimum of 12 units from A, B, and C:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>HD 270</td>
<td>Infant and Toddler Development</td>
<td></td>
</tr>
<tr>
<td>or HD 280</td>
<td>Early Childhood Development</td>
<td></td>
</tr>
</tbody>
</table>
Group B:

PSYC 320  Psychology of Middle Childhood
or PSYC 328  Psychology of Adolescent Development

Group C:

PSYC 329  Psychology of Adulthood and Aging
or SOC 330  Social Gerontology

Applications (12)

A minimum of 12 units chosen from A, B, and C:

Group A:

Four units chosen from:

HD 271  Group Education and Care of Infants and Toddlers
HD 281  Guidance of Young Children
HD 304  Theories of Play

Group B:

PSYC 350  Development of Exceptional Children
or PSYC 391  Psychopathology of Childhood

Group C:

Four units chosen from:

HD 372  Psychology of Death and Dying
HD 540  Work, Retirement and Leisure
PSYC 387  Community Psychology
PSYC 390  Abnormal Psychology
SOC 330  Social Gerontology (if not previously taken above)

Testing and Assessment (6)

Two units chosen from:

HD 245  Observation and Methods in Child Development: Early Childhood
HD 246  Observation and Methods in Child Development: Middle Childhood
HD 247  Observation and Methods in Child Development: Adolescence

A minimum of four units chosen from:

HD 400  Child Assessment
HD 460  Adult Assessment
PSYC 377  Tests and Measurements

Statistics/Methodology (15)

HD 310  Applied Research Methods
PSYC 210  Psychological Statistics
PSYC 311  Introduction to Experimental Psychology

Total Units 90

Bachelor of Arts in Human Development - School Age Track

Requirements (180 units)

Total units required for graduation: 180

Basic Program (180)

Group A: Language Arts 28
Group B: Humanities and the Arts 16
Group C: Visual and Performing Arts 13
Group D: Mathematics and Sciences 38
Group E: Social and Behavioral Sciences 28

Group F: Lifelong Understanding, Physical Education and Health 10
Group G: Multicultural/Gender Category 47
Group H: Child Development Core 47

Total Units 180

All students choosing this track should give special attention to the following points before they begin their course work:

1. Since this program contains a variety of choices, students should seek advisement as early as possible;
2. By completing this track, students also can fulfill the general education requirements of the university;
3. A course can be counted only once for credit within this track, except for courses which meet both capstone and multicultural requirements;
4. With advisement and a careful selection of courses, students can also complete a second major in certain fields;
5. Students who plan to seek a multiple subject teaching credential at CSUSB should achieve a minimum grade point average of at least 2.7.

Requirements for the B.A. in Human Development - School Age Track

Group A: Language Arts Breadth Area

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

2. Upper-division Writing Requirement (G.E.): (4)
   Four units chosen from (ENG 306. Expository Writing is recommended; but any of the following courses qualifies): *
   EDUC 306  Expository Writing for Education
   ENG 306  Expository Writing for English
   HUM 306  Expository Writing for the Humanities
   MGMT 306  Expository Writing for Administration
   NSCI 306  Expository Writing for the Natural Sciences
   SSCI 306  Expository Writing for the Social Sciences

3. Oral Communication (G.E.) (8)
   COMM 120  Oral Communication
   HON 104C  Language and Meaning: Oral Communication (open only to Honors Program students)

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

5. Development of Language (4)

ENG 311  The English Language 4

6. Analysis of Literature (4)

Four units chosen from:

ENG 301A  Analysis of Poetry 4
ENG 302A  Analysis of Drama
ENG 303A  Analysis of Prose Fiction
ENG 304A  Analysis of Nonfiction Prose
TA 302A  Analysis of Drama

7. Children’s Literature (4)

ENG 320  Childrens Literature 4
or ENG 327  Literature for Adolescents and Young Adults

Total Units 32

* 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

Group B: Humanities and the Arts Breadth Area

1. Critical Thinking (G.E.) (4)

Four units chosen from:

COMM 180  Critical Thinking Through Argumentation 4
HON 104A  Language and Meaning: Critical Thinking (open only to Honors Program students)
MATH 180  Critical Thinking Through Applications of Mathematical Logic
PHIL 105  Critical Thinking Through Argument Analysis
PHIL 200  Critical Thinking Through Symbolic Logic
PSYC 105  Critical Thinking Through Problems Analysis
SOC 180  Critical Thinking about Social Problems

2. Philosophy (G.E.) (4)

Four units chosen from:

HON 104B  Language and Meaning: Introduction to Philosophy (open only to Honors Program students) 4
PHIL 190  Introduction to Philosophical Issues
PHIL 191  Introduction to Ethics
PHIL 192  Introduction to Philosophy of Religion
PHIL 193  Introduction to Eastern Philosophy
PHIL 194  Introduction to Knowledge and Reality

3. Foreign Language (G.E.) (4)

Four units chosen from:

ARAB 103  College Arabic III
ARAB 201  Intermediate Arabic I
ARAB 202  Intermediate Arabic II
ARAB 203  Intermediate Arabic III
ARAB 214  Conversation in Arabic
ARAB 290  Arabic Literature in Translation
ASL 103  American Sign Language III
ASL 201  American Sign Language IV
ASL 202  American Sign Language V
ASL 203  American Sign Language V
CHIN 103  College Chinese III
CHIN 201  Second Year College Chinese I
CHIN 202  Second Year College Chinese II
CHIN 203  Second Year College Chinese III
CHIN 290  Chinese Literature in Translation
FLAN 103C-U  Language Study III:
FREN 103  College French III
FREN 200  Culture and Communication
FREN 201  Culture and Communication II
FREN 202  Culture and Communication III
FREN 290  French Literature in English
GER 103  College German III
GER 212  Composition
GER 214  Conversation
GER 216  Introduction to Literary Texts
GER 290  German Literature in English
JAPN 103  College Japanese III
JAPN 201  Second Year College Japanese I
JAPN 202  Second Year College Japanese II
JAPN 203  Second Year College Japanese III
JAPN 290  Japanese Literature in Translation
KOR 103  College Korean III
KOR 201  Second Year College Korean I
KOR 202  Second Year College Korean II
KOR 203  Second Year College Korean III
SPAN 103  College Spanish III
SPAN 201  Intermediate Spanish I
SPAN 202  Intermediate Spanish II
SPAN 203  Intermediate Spanish III
SPAN 214  Conversation
SPAN 290  Spanish and Latin American Literature in English

4. Integrative Capstone in the Humanities (G.E.) (4)

Four units chosen from:

HUM 319  Myth, Metaphor and Symbol (meets the requirement in category G1)
HUM 325  Perspectives on Gender (meets the requirement in category G1)
HUM 328  Asian Cultural Traditions (meets the requirement in category G1)
HUM 330  Arts and Ideas
HUM 335  The Origin and Contemporary Role of Latino Culture (meets the requirement in category G1)
HUM 340  Interpretation and Values
HUM 344  Ideas in American Culture
HUM 350  The Culture of American Childhood (meets the requirement in category G1)
HUM 370  African Heritage in the Arts (meets the requirement in category G1)
HUM 375  The World of Islam
HUM 380  Comparative Studies in the Arts: East and West (meets the requirement in category G1)
HUM 385  A Cultural History of Fashion

Total Units 16

* Note: Students can receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325

Group C: Visual and Performing Arts

1. Four units in the arts (G.E.) chosen from: (4)
   - ART 200  Studies in Art
   - MUS 180  Studies in Music
   - TA 260  Introduction to Theatre

2. Visual Arts Activity (3)
   - ART 395  Art in the Classroom
     or ART 400  Teaching Art in the Elementary Classroom

3. Music Activity (3)
   - MUS 370  Music for Elementary Classroom Teachers

4. Theatre Activity (3)
   - Three units chosen from:
     - TA 481  Creative Drama in the Classroom
     - TA 484  Readers Theatre in the Classroom
     - TA 486  Puppetry in the Classroom

Total Units 13

Group D: Mathematics and Sciences

1. Ideas of Mathematics (G.E.) (4)
   - Four units chosen from:
     - 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

2. Fundamental Concepts of Mathematics for Educators (12)
   - MATH 301A  Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry
   - MATH 301B  Fundamental Concepts Mathematics Educators: Transition Concrete to Abstract Algebra and Geometry
   - MATH 301C  Fundamental Concepts Mathematics Educators: Further Developments in Algebra and Geometry

3. Life Science (G.E.) (5)
   - BIOL 100  Topics in Biology

4. Physical Science (G.E.) (10)
   - CHEM 100  Chemistry in the Modern World
   - PHYS 100  Physics in the Modern World

5. Earth and Space Science (5)
   - Five units chosen from:
     - ASTR 311  A Cosmic Perspective of Earth
     - GEOG 311  The Dynamic Earth
     - GEOL 309  Earth: The Blue Planet

6. Technology (G.E.) (2)
   - CSE 129  Science, Computing and Society

Total Units 38

Group E: Social and Behavioral Sciences

1. American Civilization (G.E.) (4)
   - Four units chosen from:
     - HIST 146  American Civilization
     - HIST 200  United States History to 1877
     - HIST 201  United States History, 1877 to the Present

   - PSCI 203  American Government

3. World Civilizations I (G.E.) (4)
   - ANTH 140  World Civilizations I, the Rise of Civilization
     or HIST 140  World Civilizations I, the Rise of Civilization

4. World Civilizations II (G.E.) (4)
   - HIST 142  World Civilizations II, the Civilizations of the East and West

5. California History (4)
   - HIST 270  California History

6. Geography (4)
   - GEOG 300  Geography in the Elementary and Middle School Classroom

7. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)
   - Four units chosen from:
     - SSCI 300  Nonwestern World
     - SSCI 304  Contemporary Latin America
     - SSCI 315  Cultural Adaptation: The Quest for Survival
     - SSCI 316  Race and Racism (meets the requirement in category G1)
     - SSCI 320  Understanding Capitalism
     - SSCI 321  Urbanization and the Urban Environment
     - SSCI 325  Perspectives on Gender (meets the requirement in category G1)
     - SSCI 345  Religious Expression in America
     - SSCI 350  Roots of Modern Racism in America (meets the requirement in category G1)

Total Units 28

* Note: Students may receive credit for only one of the following courses: HUM 325, NSCI 325, SSCI 325

Group F: Lifelong Understanding, Physical Education and Health

1. Physical Education (G.E.) (2)
   - Two units chosen from:
     - KINE 101A-S  Individual and Dual Activities:
     - KINE 114A-F  Physical Fitness and Conditioning Activities
     - KINE 120A-L  Somatic and Martial Arts Activities:
     - KINE 121A-K  Team Activities:
     - KINE 137A-L  Aquatic Activities:
     - KINE 147  A Fitness Odyssey
     - KINE 149  Independent Activity Project
     - KINE 150A-K  Dance Activities:

2. Physical Fitness (G.E.) (2)
Group 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. (0)
   - HUM 325 Perspectives on Gender
   - HUM 328 Asian Cultural Traditions
   - HUM 335 The Origin and Contemporary Role of Latino Culture
   - HUM 350 The Culture of American Childhood
   - HUM 370 African Heritage in the Arts
   - HUM 375 The World of Islam
   - HUM 380 Comparative Studies in the Arts: East and West
   - NSCI 325 Perspectives on Gender
   - SSCI 316 Race and Racism
   - SSCI 325 Perspectives on Gender
   - SSCI 350 Roots of Modern Racism in America

2. Upper-division general education elective courses that satisfy the Multicultural/Gender requirement (0)
   - ANTH 325 Human Biological Variance and the Concept of Race
   - ANTH 333 Sex and Gender in Cross-Cultural Perspective
   - COMM 304 Intercultural Communication
   - COMM 401 Gender, Race and Media
   - CJUS 451 Women and Crime
   - ECON 352 Political Economy of Poverty and Discrimination
   - ENG 314 American Indian Literature
   - HUM 460 Cultural Studies
   - MUS 308 Women in Music
   - MUS 309 Jazz History in America and African-American Culture
   - MUS 350 Music of World Cultures
   - PA 305 Organizations in Multicultural and Diverse Societies
   - PHIL 364 Philosophy of Race and Ethnicity
   - PHIL 367 Gender and Philosophy
   - TA 462 African-American Theatre and Drama
   - TA 463 Asian Theatre

Group H: Child Development Core (47 units)

Child Development (6)

Students must choose 6 units from A or B below:

   - Group A:
     - HD 240 Introduction to Child Development

   - Group B:
     - HD 246 Observation and Methods in Child Development: Middle Childhood
     - HD 247 Observation and Methods in Child Development: Adolescence

Group B:

- EELB 301 Growth and Development in Socio-Educational Contexts

Exceptional Child (41)

- PSYC 350 Development of Exceptional Children
- HD 281 Guidance of Young Children
- HD 282 Early Childhood Curriculum and Programs
- HD 291 Interactions with Young Children: Laboratory
- HD 292 Curriculum and Program: Laboratory
- HD 304 Theories of Play
- HD 324 Developmental Psychobiology
- HD 400 Child Assessment
- PSYC 303 Parenting and Family Relations
- or SOC 340 Sociology of the Family
- PSYC 320 Psychology of Middle Childhood
- PSYC 358 Cognitive Development

Total Units 47

* Note: Students must maintain a "C-" or better in this course.

Bachelor of Arts 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

General Education Basic Skills in English (A1) (4)

One of the following: 4

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENG 104A</td>
<td>Stretch Composition III</td>
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<td>ENG 104B</td>
<td>Stretch Composition III for Multilingual Students</td>
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<tr>
<td>ENG 106A</td>
<td>Accelerated Stretch Composition II</td>
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<tr>
<td>ENG 106B</td>
<td>Accelerated Stretch Composition II for Multilingual Students</td>
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<tr>
<td>ENG 107</td>
<td>Advanced First-Year Composition</td>
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General Education Basic Skills in Mathematics (A3) (14)

<table>
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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  
PSYC 100 Introduction to Psychology (or its equivalent; also satisfies General Education category D4)  
PSYC 101 Psychology as a Major  
PSYC 210 Psychological Statistics  

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

PSYC 100 Introduction to Psychology 4  
PSYC 101 Psychology as a Major 1  
PSYC 210 Psychological Statistics 5  
PSYC 311 Introduction to Experimental Psychology 6  

Fields of Psychology. Twelve units chosen from:  
PSYC 201 Developmental Psychology  
PSYC 240 Introduction to Child Development  
PSYC 355 Industrial Psychology  
PSYC 382 Psychology of Social Behavior  
PSYC 385 Personality  
PSYC 390 Abnormal Psychology  

Basic Processes. Twelve units chosen from:  
PSYC 357 History and Systems of Psychology  
PSYC 360 Cognitive Psychology  
PSYC 362 Learning and Motivation  
PSYC 363 Biological Psychology  
PSYC 364 Perception  

Applications. Four units chosen from:  
PSYC 315 Communication Processes  
PSYC 318 Health Psychology  
PSYC 351 Behavior Modification: Principles and Applications  
PSYC 377 Tests and Measurements  
PSYC 386 Introduction to Psychotherapy  
PSYC 575 Internship in Psychology  

Advanced Culminating Experience. Students must select one of the following options  
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 595B-D Independent Study  

Option I for the culminating experience  

<table>
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<th>Option I</th>
<th>Six units chosen from:</th>
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<tr>
<td>PSYC 431 Experimental Psychology: Developmental 6</td>
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<tr>
<td>PSYC 432 Experimental Psychology: Clinical</td>
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<td>PSYC 433 Experimental Psychology: Biological</td>
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<td>PSYC 434 Experimental Psychology: Social</td>
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<td>PSYC 435 Experimental Psychology: Personality</td>
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<tr>
<td>PSYC 436 Experimental Psychology: Learning and Motivation</td>
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<tr>
<td>PSYC 437 Experimental Psychology: Cognition and Perception</td>
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<tr>
<td>PSYC 438 Experimental Psychology: Industrial and Organizational</td>
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</table>

Total Units 6  

Option II  
Four units chosen from:  
PSYC 421 Advanced Seminar in Psychology: Developmental 4  
PSYC 422 Advanced Seminar in Psychology: Clinical  
PSYC 423 Advanced Seminar in Psychology: Biological  
PSYC 424 Advanced Seminar in Psychology: Social  
PSYC 425 Advanced Seminar in Psychology: Personality  
PSYC 426 Advanced Seminar in Psychology: Learning and Motivation  
PSYC 427 Advanced Seminar in Psychology: Cognition and Perception  
PSYC 428 Advanced Seminar in Psychology: Industrial and Organizational  

Total Units 4  

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.

Bachelor of Arts in Psychology - Biological Psychology

Requirements (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 - Biological Psychology

General Education Basic Skills in English (A1) (4)
One of the following:

- ENG 104A  Stretch Composition III
- ENG 104B  Stretch Composition III for Multilingual Students
- ENG 106A  Accelerated Stretch Composition II
- ENG 106B  Accelerated Stretch Composition II for Multilingual Students
- ENG 107  Advanced First-Year Composition

General Education Basic Skills in Mathematics (A3) (14)
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
- PSYC 100  Introduction to Psychology (or its equivalent; also satisfies General Education category D4)
- PSYC 101  Psychology as a Major
- PSYC 210  Psychological Statistics

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 - Biological Psychology

PSYC 100  Introduction to Psychology 4
PSYC 101  Psychology as a Major 1
PSYC 210  Psychological Statistics 5
PSYC 201  Developmental Psychology
or PSYC 320  Introduction to Child Development
PSYC 355  Industrial Psychology
PSYC 382  Psychology of Social Behavior
PSYC 385  Personality
PSYC 442  Behavioral Neuroscience 4

Fields of Psychology. Twelve units chosen from:

- PSYC 201  Developmental Psychology
- PSYC 320  Introduction to Child Development
- PSYC 355  Industrial Psychology
- PSYC 382  Psychology of Social Behavior
- PSYC 385  Personality
- PSYC 390  Abnormal Psychology

Basic Processes. Four units chosen from:

- PSYC 357  History and Systems of Psychology
- PSYC 360  Cognitive Psychology
- PSYC 364  Perception

Foundations of Biopsychology. Eight units chosen from:

- PSYC 362  Learning and Motivation
- PSYC 365  Cognitive Neuroscience
- PSYC 538  Introduction to Psychopharmacology
- ANTH 327  Primate Evolution and Ecology
or BIOL 306  Human Heredity and Development

Advanced Culminating Experience:

- PSYC 433  Experimental Psychology: Biological 6
or PSYC 436  Experimental Psychology: Learning and Motivation

Upper-division biopsychology electives. Twelve units chosen from:

- PSYC 318  Health Psychology
- PSYC 324  Developmental Psychobiology
- PSYC 333  Drugs and Behavior
- PSYC 339  Human Psychophysiology
- PSYC 362  Learning and Motivation
- PSYC 365  Cognitive Neuroscience
- PSYC 367  Neuropsychiatric Disorders
- PSYC 410  Advanced Psychological Statistics
- PSYC 423  Advanced Seminar in Psychology: Biological
- PSYC 426  Advanced Seminar in Psychology: Learning and Motivation
- PSYC 538  Introduction to Psychopharmacology
- ANTH 325  Human Biological Variance and the Concept of Race (if not taken as an upper-division psychology elective)
or ANTH 327  Primate Evolution and Ecology
- BIOL 306  Human Heredity and Development 6

Total Units 66

Students intending to apply to doctoral programs in biopsychology are encouraged to take appropriate course work in biology, chemistry, and physics.

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) 4
- HD 240  Introduction to Child Development (or a course in child development) 4
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 in Graduate Degree and Program Requirements (p. 60);
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 531</td>
<td>Understanding and Guiding Child Behavior</td>
<td>2</td>
</tr>
<tr>
<td>CD 532</td>
<td>Best Practice with Young Children</td>
<td>2</td>
</tr>
<tr>
<td>CD 612B-E</td>
<td>Directed Readings (2-5 units for a total of 5 units)</td>
<td>5</td>
</tr>
<tr>
<td>CD 614</td>
<td>Theories of Child Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 624</td>
<td>Advanced Developmental Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>CD 648</td>
<td>Social-Emotional Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 651</td>
<td>Advanced Cognitive Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 659</td>
<td>Early Childhood Assessment</td>
<td>4</td>
</tr>
<tr>
<td>CD 689B-E</td>
<td>Externship in Child Development (2-5 units for a total of 5 units)</td>
<td>5</td>
</tr>
<tr>
<td>CD 690</td>
<td>Families and Planning</td>
<td>4</td>
</tr>
<tr>
<td>CD 999</td>
<td>Comprehensive Examination</td>
<td>0</td>
</tr>
<tr>
<td>PSYC 640</td>
<td>Advanced Methods in Psychological Research</td>
<td>4</td>
</tr>
</tbody>
</table>

Eight units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor

Total Units 50

Project Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 531</td>
<td>Understanding and Guiding Child Behavior</td>
<td>2</td>
</tr>
<tr>
<td>CD 532</td>
<td>Best Practice with Young Children</td>
<td>2</td>
</tr>
<tr>
<td>CD 611B-E</td>
<td>Advanced Independent Study (2-5 units for a total of 5 units)</td>
<td>5</td>
</tr>
<tr>
<td>CD 614</td>
<td>Theories of Child Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 624</td>
<td>Advanced Developmental Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>CD 648</td>
<td>Social-Emotional Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 651</td>
<td>Advanced Cognitive Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 659</td>
<td>Early Childhood Assessment</td>
<td>4</td>
</tr>
<tr>
<td>CD 690</td>
<td>Families and Planning</td>
<td>4</td>
</tr>
<tr>
<td>CD 695</td>
<td>Graduate Project</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 640</td>
<td>Advanced Methods in Psychological Research</td>
<td>4</td>
</tr>
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</table>

Eight units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

Total Units 50

Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 531</td>
<td>Understanding and Guiding Child Behavior</td>
<td>2</td>
</tr>
<tr>
<td>CD 532</td>
<td>Best Practice with Young Children</td>
<td>2</td>
</tr>
<tr>
<td>CD 611B-E</td>
<td>Advanced Independent Study (2-5 units for a total of 5 units)</td>
<td>5</td>
</tr>
<tr>
<td>CD 614</td>
<td>Theories of Child Development</td>
<td>4</td>
</tr>
</tbody>
</table>
Admission to graduate study, but who do not meet the general requirements of the university for admission to classified graduate status are:

Admission to the M.A. Program

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.

Requirements (51 units)

The 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:
   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;

   Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology program only);
   Completion of the graduate entrance writing requirement;
   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;
   Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant’s responsibility to determine if letters have been received.);
   Satisfaction of the prerequisites or their equivalent:

   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 permit 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;

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:
   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;

   Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology program only);
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   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;
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   Satisfaction of the prerequisites or their equivalent:

   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.

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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;
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   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 permit 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 in Graduate Degree and Program Requirements (p. 60).

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 611B-E</td>
<td>Advanced Independent Study (2-5 units for a total of 5)</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 640</td>
<td>Advanced Methods in Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 641</td>
<td>Analysis of Variance</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 642</td>
<td>Regression and Nonparametric Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 650</td>
<td>Advanced Cognitive Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 652</td>
<td>Advanced Learning and Motivation</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 654</td>
<td>Advanced Life-Span Developmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 656</td>
<td>Advanced Biological Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 658</td>
<td>Advanced Personality and Social Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 699</td>
<td>Thesis</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, PSYC 611, PSYC 612 and PSYC 689.</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

Master of Science in Psychology

Requirements

Clinical Counseling Concentration Thesis Option (91-92 units)

Clinical Counseling Concentration Comprehensive Examination Option (90 units)

Industrial/Organizational Concentration Thesis Option (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 one of the following:
   a. A baccalaureate degree in a major other than psychology and score at or above the 50th percentile on the Graduate Record Examination (advanced test in psychology);
   b. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department graduate admissions committee, to be satisfactory preparation for graduate study in psychology;
4. Completion of the graduate entrance writing requirement;
5. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student’s preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master’s degree;
6. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student’s likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student’s scholarly activities.

For students seeking admission in the Industrial/Organizational Psychology Concentration, the following also are required for classified status:

Completion of the following prerequisite courses or their equivalent:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td>or ADMN 210</td>
<td>Applied Business Statistics</td>
</tr>
<tr>
<td>PSYC 311</td>
<td>Introduction to Experimental Psychology</td>
</tr>
</tbody>
</table>

The following courses (or equivalent) are recommended:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 302</td>
<td>Management and Organizational Behavior</td>
</tr>
<tr>
<td>or MGMT 302</td>
<td>Management and Organizational Behavior</td>
</tr>
<tr>
<td>PSYC 355</td>
<td>Industrial Psychology</td>
</tr>
<tr>
<td>or MGMT 455</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>PSYC 377</td>
<td>Tests and Measurements</td>
</tr>
</tbody>
</table>

For students seeking admission in the Clinical/Counseling Concentration, the following also are required for classified status:

Completion of the following prerequisite courses or their equivalent:

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PSYC 100</td>
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<td>PSYC 210</td>
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</tr>
<tr>
<td>PSYC 311</td>
<td>Introduction to Experimental Psychology</td>
</tr>
<tr>
<td>PSYC 377</td>
<td>Tests and Measurements</td>
</tr>
<tr>
<td>PSYC 385</td>
<td>Personality</td>
</tr>
<tr>
<td>or PSYC 386</td>
<td>Introduction to Psychotherapy</td>
</tr>
<tr>
<td>PSYC 390</td>
<td>Abnormal Psychology</td>
</tr>
</tbody>
</table>
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 Concentration**

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 611B-E in preparation for the thesis.
   OR
   b. Successful completion of the comprehensive examination. Students selecting the examination option take five units of PSYC 612B-E 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 in Graduate Degree and Program Requirements (p. 60). 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 Concentration**

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 a least 3.0 (“B”) and grades of “C” (2.0) or better in all courses in the program;
2. Completed and defended an original master’s thesis (a two-course sequence, PSYC 611B-E and PSYC 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 611B-E</td>
<td>Advanced Independent Study (2-5 units for a total of 5)</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 616</td>
<td>Child and Spousal/Partner Abuse</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 618</td>
<td>Community and Public Mental Health</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 619</td>
<td>Community Disaster, Trauma and Resilience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 633</td>
<td>Professional Ethics and Law</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 636</td>
<td>Cross-Cultural Counseling</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 638</td>
<td>Substance Abuse: Detection, Assessment and Treatment</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 640</td>
<td>Advanced Methods in Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 641</td>
<td>Analysis of Variance</td>
<td>4-5</td>
</tr>
<tr>
<td>PSYC 642</td>
<td>Regression and Nonparametric Statistics</td>
<td></td>
</tr>
<tr>
<td>PSYC 654</td>
<td>Advanced Life-Span Developmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 665</td>
<td>Psychopathology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 667</td>
<td>Family Processes</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 671</td>
<td>Marriage and Family Therapy Skills I</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 672</td>
<td>Marriage and Family Therapy Skills II</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 673</td>
<td>Marriage and Family Therapy Skills III</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 679</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 687A</td>
<td>Marriage and Family Therapy Practicum I</td>
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<td>PSYC 687B</td>
<td>Marriage and Family Therapy Practicum II</td>
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</tr>
<tr>
<td>PSYC 687C</td>
<td>Marriage and Family Therapy Practicum III</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 697A</td>
<td>Advanced Practicum in Counseling Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 697B</td>
<td>Advanced Practicum in Counseling Psychology II</td>
<td>4</td>
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<tr>
<td>PSYC 697C</td>
<td>Advanced Practicum in Counseling Psychology III</td>
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</tr>
<tr>
<td>PSYC 699</td>
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<tr>
<td><strong>Total Units</strong></td>
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<td>91-92</td>
</tr>
</tbody>
</table>

**Notes:** PSYC 617, PSYC 682, and PSYC 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist.

**Comprehensive Examination Option (90 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 612B-E</td>
<td>Directed Readings (2-5 units for a total of 5)</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 616</td>
<td>Child and Spousal/Partner Abuse</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 618</td>
<td>Community and Public Mental Health</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 619</td>
<td>Community Disaster, Trauma and Resilience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 633</td>
<td>Professional Ethics and Law</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 636</td>
<td>Cross-Cultural Counseling</td>
<td>4</td>
</tr>
</tbody>
</table>
The Thesis Option (76 units) includes courses such as PSYC 638 (Substance Abuse: Detection, Assessment and Treatment) and PSYC 640 (Advanced Methods in Psychological Research). For those interested in licensure as a marriage and family therapist, courses like PSYC 617, PSYC 682, and PSYC 691 or comparable workshops are recommended.

**Industrial/Organizational**

**Thesis Option (76 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>PSYC 638</td>
<td>Substance Abuse: Detection, Assessment and Treatment</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 640</td>
<td>Advanced Methods in Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 654</td>
<td>Advanced Life-Span Developmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 665</td>
<td>Psychopathology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 667</td>
<td>Family Processes</td>
<td>4</td>
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<tr>
<td>PSYC 671</td>
<td>Marriage and Family Therapy Skills I</td>
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</tr>
<tr>
<td>PSYC 672</td>
<td>Marriage and Family Therapy Skills II</td>
<td>5</td>
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<tr>
<td>PSYC 673</td>
<td>Marriage and Family Therapy Skills III</td>
<td>5</td>
</tr>
<tr>
<td>PSYC 679</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 687A</td>
<td>Marriage and Family Therapy Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 687B</td>
<td>Marriage and Family Therapy Practicum II</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 687C</td>
<td>Marriage and Family Therapy Practicum III</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 697A</td>
<td>Advanced Practicum in Counseling Psychology I</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 697B</td>
<td>Advanced Practicum in Counseling Psychology II</td>
<td>4</td>
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<tr>
<td>PSYC 697C</td>
<td>Advanced Practicum in Counseling Psychology III</td>
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</tr>
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<td>PSYC 699A</td>
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</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>90</strong></td>
</tr>
</tbody>
</table>

Recommended Elective Courses needed for licensure:

- PSYC 617: Clinical Psychopharmacology (4 units)
- PSYC 682: Clinical Assessment (4 units)
- PSYC 691: Human Sexuality and Treatment (4 units)

Notes: PSYC 617, PSYC 682, and PSYC 691 or comparable workshops are required for those students interested in licensure as a marriage and family therapist prior to application to licensure.

**Minor in Psychology**

**Requirements (32 units)**

- PSYC 100: Introduction to Psychology (4 units)

**Requirements for a minor in Psychology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
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<tr>
<td>PSYC 201</td>
<td>Developmental Psychology</td>
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</tr>
<tr>
<td>PSYC 240</td>
<td>Introduction to Child Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 355</td>
<td>Industrial Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 382</td>
<td>Psychology of Social Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 385</td>
<td>Personality</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 390</td>
<td>Abnormal Psychology</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**Basic Processes.** Four units chosen from:

- PSYC 357: History and Systems of Psychology
- PSYC 360: Cognitive Psychology
- PSYC 362: Learning and Motivation
- PSYC 363: Biological Psychology
- PSYC 364: Perception

**Applications.** Four units chosen from:

- PSYC 315: Communication Processes
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 318</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Behavior Modification: Principles and Applications</td>
</tr>
<tr>
<td>PSYC 377</td>
<td>Tests and Measurements</td>
</tr>
<tr>
<td>PSYC 386</td>
<td>Introduction to Psychotherapy</td>
</tr>
<tr>
<td>PSYC 575</td>
<td>Internship in Psychology</td>
</tr>
</tbody>
</table>

Sixteen units of upper-division psychology electives are required. 16

Total Units 32
Department of Sociology

Bachelor of Arts

- Sociology
- Sociology - Social Service Track

Minor

Sociology

Certificate Programs

- Gerontology
- Social Services

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.

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.

Current Faculty

Zeng-yin Chen, Professor
B.A. 1981, Beijing Normal University
M.A. 1988, Dartmouth College

James V. Fenelon, Professor
B.A. 1978, Loyola Marymount University
M.A. 1981, M.A. 1983, School of International Training

Emeriti

David L. Decker, Professor
John Heeren, Professor
Harold A. Jambor, Lecturer
Thomas Meisenhelder, Professor
Randi L. Miller, Professor
Bernhardt L. Mortensen, Associate Professor
Clifford T. Paynton, Professor

Undergraduate Degrees

Bachelor of Arts

- Sociology (p. 815)
- Sociology - Social Service (p. 816)

Minor

- Sociology (p. 816)
Certificate Programs

- Gerontology (p. 816)
- Social Services (p. 817)

Courses

**SOC 100. The Study of Society. 4 Units.**
*(GE=D4)*
Survey of the basic characteristics and dynamics of society and culture from the sociological perspective.

**SOC 110. Choices in the Life Course. 2 Units.**
*(GE=E2)*
Utilization of social research in helping students make choices about life course events, such as career, education and family.

**SOC 180. Critical Thinking about Social Problems. 4 Units.**
*(GE=A4)*
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.

**SOC 301. Qualitative Research. 4 Units.**
Prerequisites: SOC 100
Examines social problems and issues using various qualitative research methods such as focus groups, participant observation and in-depth interviews.

**SOC 307. Social Research I. 5 Units.**
Prerequisites: SOC 100
Basic concepts and techniques used by sociologists in conducting research. Four hours lecture and two hours laboratory.

**SOC 309. Social Research II. 5 Units.**
Prerequisites: SOC 307 and MATH 110, MATH 115 or MATH 120 or equivalent
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.

**SOC 311. Sociological Theory. 4 Units.**
Sources of sociological theory and current trends in sociological analysis.

**SOC 330. Social Gerontology. 4 Units.**
Issues facing individuals, families and communities in a rapidly aging world. Social, psychological, physical and economic aspects of lifelong aging are discussed along with theories and myths of aging, coping with life adjustments, health and social services and careers in aging.

**SOC 336. Black Women and Feminism. 4 Units.**
Black women in America and their activities on behalf of women’s rights; the interplay of racism and sexism within the women’s movement.

**SOC 339. Socialization. 4 Units.**
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.

**SOC 340. Sociology of the Family. 4 Units.**
A systematic and comparative analysis of family structure and change: marriage, reproduction, childrearing, marital problems.

**SOC 341. Marriage and Family Among Blacks. 4 Units.**
Forces affecting the black family, with emphasis on the roles assigned to individual members.

**SOC 342. The Chicano Family. 4 Units.**
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.

**SOC 343. Sociology of Family Violence. 4 Units.**
The occurrence, causes and effects of family violence as a social phenomenon. Formerly SOC 320.

**SOC 350. Criminology. 4 Units.**
Causes of crime with emphasis on sociological factors.

**SOC 352. Juvenile Offender. 4 Units.**
Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation.

**SOC 354. Deviant Behavior. 4 Units.**
Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation.

**SOC 355. Medical Sociology. 4 Units.**
Patients self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages in the sick role in contemporary society are emphasized.

**SOC 356. Sociology of Mental Illness. 4 Units.**
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.

**SOC 358. Punishment and Corrections. 4 Units.**
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.

**SOC 360. Social Psychology. 4 Units.**
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.
SOC 363. Sociology of Mass Communication. 4 Units.
Study of symbolic and organizational aspects of mass communication systems. Special attention to attitudes and beliefs as influenced by the mass media.

SOC 375. Sociology of Sport. 4 Units.
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.

SOC 380. Sociology of Religion. 4 Units.
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.

SOC 410. Sociology of Race and Ethnicity. 4 Units.
Social inequality, including gender and class variations in racial and ethnic socialization, experienced by members of racial and cultural groups in the United States.

SOC 418. Sociology of Social Welfare. 4 Units.
Survey of the development and implementation of social welfare policies. Analysis of the impact of different public welfare programs on contemporary social problems. Formerly SOC 318.

SOC 425. Asian Americans: Origin and Ethnicity. 4 Units.
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.

SOC 430. Urban Sociology. 4 Units.
Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations.

SOC 432. Political Sociology. 4 Units.
Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest.

SOC 434. Community Organization. 4 Units.
Programs of action, operative and proposed, for the organization of the community and the solution of its problems.

SOC 436. Group Dynamics. 4 Units.
Dynamics of primary group relationships, including psychotherapy groups.

SOC 440. Social Class. 4 Units.
Study of social class systems with particular reference to race, ethnicity and gender.

SOC 441. Black Social Stratification. 4 Units.
Caste in America, comparison of black and white stratification, black social mobility.

SOC 442. Chicano Social Stratification. 4 Units.
Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities.

SOC 444. Sociology of Gender. 4 Units.
Social inequality, including class and racial/ethnic variations in sex-role organization, in the roles of women and men in contemporary U.S. society. Formerly SOC 344.

SOC 450. White Collar Crime. 4 Units.
Study of Americas 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.

SOC 484. Social Casework. 4 Units.
Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning.

SOC 525. Indian Nations and Native America. 4 Units.
Reviews the 500 years of conquest, genocide, resistance, and survival, including the contemporary realities of indigenous peoples. Formerly a topic under SOC 590.

SOC 540. Sociology of Education. 4 Units.
Sociological analysis of educational organizations, the relationship of such organizations to culture, social class and power, and the roles of teachers, students and administrators.

SOC 545. Indigenous Peoples. 4 Units.
Sociological study of Indigenous Peoples from the local to the global. Formerly a topic under SOC 590.

SOC 575. Internship in Sociology. 4 Units.
Prerequisites: consent of instructor and department Supervised work and study in private or public organizations. A total of eight units may be applied toward the major; 12 units may be applied toward graduation requirements. Graded credit/no credit.

SOC 590. Seminar in Sociology. 4 Units.
Prerequisites: SOC 307 and consent of instructor An intensive study of some phase of sociology to be developed by the instructor with the class. May be repeated for credit as topics change.

SOC 595B. Independent Study. 2 Units.
Prerequisites: senior or graduate standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken Special topics involving library and/or field research. A total of 10 units in SOC 595 may be applied toward graduation.

SOC 595C. Independent Study. 3 Units.
Prerequisites: senior or graduate standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken Special topics involving library and/or field research. A total of 10 units in SOC 595 may be applied toward graduation.
SOC 595D. Independent Study. 4 Units.
Prerequisites: senior or graduate standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Special topics involving library and/or field research. A total of 10 units in SOC 595 may be applied toward graduation.

SOC 595E. Independent Study. 5 Units.
Prerequisites: senior or graduate standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Special topics involving library and/or field research. A total of 10 units in SOC 595 may be applied toward graduation.

SOC 597. Senior Honors Project. 5 Units.
Prerequisites: formal application approved by department chair. Original research in an area of sociology, culminating in a major research report. The research project may be a quantitative or qualitative nature. Enrollment limited to students whose formal application for departmental honors is approved.

SOC 600. Proseminar in Sociology. 4 Units.
Prerequisites: consent of instructor. Survey of the concepts and ideas that sociologists employ to study, describe and analyze globalization.

SOC 606. Sociology of Terrorism. 4 Units.
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.

Bachelor of Arts in Sociology

Requirements (62 units)

Total units required for graduation: 180 (see Addendum for program changes)

Requirements for the B.A. in Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>The Study of Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Qualitative Research</td>
<td>4</td>
</tr>
<tr>
<td>SOC 307</td>
<td>Social Research I</td>
<td>5</td>
</tr>
<tr>
<td>SOC 309</td>
<td>Social Research II</td>
<td>5</td>
</tr>
<tr>
<td>SOC 311</td>
<td>Sociological Theory</td>
<td>4</td>
</tr>
<tr>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 575</td>
<td>Internship in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Concentration

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SOC 336</td>
<td>Black Women and Feminism</td>
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<td>SOC 341</td>
<td>Marriage and Family Among Blacks</td>
<td>4</td>
</tr>
<tr>
<td>SOC 342</td>
<td>The Chicano Family</td>
<td>4</td>
</tr>
</tbody>
</table>

SOC 343 Sociology of Family Violence 4
SOC 410 Sociology of Race and Ethnicity 4
SOC 418 Sociology of Social Welfare 4
SOC 425 Asian Americans: Origin 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

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SOC 343</td>
<td>Sociology of Family Violence</td>
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<tr>
<td>SOC 350</td>
<td>Criminology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 352</td>
<td>Juvenile Offender</td>
<td>4</td>
</tr>
<tr>
<td>SOC 354</td>
<td>Deviant Behavior</td>
<td>4</td>
</tr>
<tr>
<td>SOC 356</td>
<td>Sociology of Mental Illness</td>
<td>4</td>
</tr>
<tr>
<td>SOC 432</td>
<td>Political Sociology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 450</td>
<td>White Collar Crime</td>
<td>4</td>
</tr>
<tr>
<td>SOC 484</td>
<td>Social Casework</td>
<td>4</td>
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</table>

Community, Institutions and Social Processes

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 330</td>
<td>Social Gerontology</td>
<td>4</td>
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<tr>
<td>SOC 339</td>
<td>Socialization</td>
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</tr>
<tr>
<td>SOC 340</td>
<td>Sociology of the Family</td>
<td>4</td>
</tr>
<tr>
<td>SOC 341</td>
<td>Marriage and Family Among Blacks</td>
<td>4</td>
</tr>
<tr>
<td>SOC 342</td>
<td>The Chicano Family</td>
<td>4</td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 360</td>
<td>Social Psychology</td>
<td>4</td>
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<tr>
<td>SOC 363</td>
<td>Sociology of Mass Communication</td>
<td>4</td>
</tr>
<tr>
<td>SOC 380</td>
<td>Sociology of Religion</td>
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<td>SOC 418</td>
<td>Sociology of Social Welfare</td>
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<td>SOC 430</td>
<td>Urban Sociology</td>
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<td>SOC 432</td>
<td>Political Sociology</td>
<td>4</td>
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<tr>
<td>SOC 434</td>
<td>Community Organization</td>
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<tr>
<td>SOC 436</td>
<td>Group Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>SOC 540</td>
<td>Sociology of Education</td>
<td>4</td>
</tr>
</tbody>
</table>

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 SOC 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.

**Bachelor of Arts 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
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</tr>
<tr>
<td>SOC 301</td>
<td>Qualitative Research</td>
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<tr>
<td>SOC 307</td>
<td>Social Research I</td>
<td>5</td>
</tr>
<tr>
<td>SOC 309</td>
<td>Social Research II</td>
<td>5</td>
</tr>
<tr>
<td>SOC 311</td>
<td>Sociological Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

**Social Service Policy and Practice (12)**

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 418</td>
<td>Sociology of Social Welfare</td>
<td></td>
</tr>
<tr>
<td>SOC 434</td>
<td>Community Organization</td>
<td></td>
</tr>
<tr>
<td>SOC 436</td>
<td>Group Dynamics</td>
<td></td>
</tr>
<tr>
<td>SOC 484</td>
<td>Social Casework</td>
<td></td>
</tr>
</tbody>
</table>

**Social Structures and Processes (12)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 339</td>
<td>Socialization</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 360</td>
<td>Social Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 340</td>
<td>Sociology of the Family</td>
<td>4</td>
</tr>
<tr>
<td>SOC 341</td>
<td>Marriage and Family Among Blacks</td>
<td></td>
</tr>
<tr>
<td>SOC 342</td>
<td>The Chicano Family</td>
<td></td>
</tr>
</tbody>
</table>

Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 410</td>
<td>Sociology of Race and Ethnicity</td>
<td></td>
</tr>
<tr>
<td>SOC 440</td>
<td>Social Class</td>
<td></td>
</tr>
<tr>
<td>SOC 441</td>
<td>Black Social Stratification</td>
<td></td>
</tr>
<tr>
<td>SOC 442</td>
<td>Chicano Social Stratification</td>
<td></td>
</tr>
<tr>
<td>SOC 444</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
</tbody>
</table>

**Applications in Social Services (8)**

Eight units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 330</td>
<td>Social Gerontology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 343</td>
<td>Sociology of Family Violence</td>
<td></td>
</tr>
<tr>
<td>SOC 352</td>
<td>Juvenile Offender</td>
<td></td>
</tr>
<tr>
<td>SOC 354</td>
<td>Deviant Behavior</td>
<td></td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC 356</td>
<td>Sociology of Mental Illness</td>
<td></td>
</tr>
<tr>
<td>SOC 540</td>
<td>Sociology of Education</td>
<td></td>
</tr>
</tbody>
</table>

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)**

Students must choose either A or B

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SOC 575</td>
<td>Internship in Sociology (or one additional sociology elective from those not chosen in a previous category and in consultation with department advisor)</td>
</tr>
<tr>
<td></td>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
</tr>
<tr>
<td>B</td>
<td>SOC 575</td>
<td>Internship in Sociology (for a total of 8)</td>
</tr>
</tbody>
</table>

Total Units 62

**Minor in Sociology**

**Requirements (28 units)**

Requirements for a minor in Sociology

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.

Total Units 28

**Certificate in Gerontology**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

**Certificate Requirements (28 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 423</td>
<td>Health and Wellness of Older Adults</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 329</td>
<td>Psychology of Adulthood and Aging</td>
<td>4</td>
</tr>
<tr>
<td>SOC 330</td>
<td>Social Gerontology</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 331</td>
<td>Anthropology of Human Development</td>
</tr>
<tr>
<td>ANTH 332</td>
<td>Cross-Cultural Perspectives on Aging</td>
</tr>
<tr>
<td>ANTH 340</td>
<td>Anthropology of Health, Illness and Healing</td>
</tr>
<tr>
<td>ANTH 578B-E</td>
<td>Internship in Applied Cultural Anthropology</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>BIOL 306</td>
<td>Human Heredity and Development</td>
</tr>
<tr>
<td>BIOL 314</td>
<td>Biology of Human Sexuality</td>
</tr>
<tr>
<td>HSCI 310</td>
<td>Health and Human Sexuality</td>
</tr>
<tr>
<td>HSCI 342</td>
<td>Nutrition for Your Health</td>
</tr>
<tr>
<td>HSCI 367</td>
<td>Human Disease Mechanisms</td>
</tr>
<tr>
<td>HSCI 399A</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>HSCI 399B</td>
<td>Community Service Project</td>
</tr>
<tr>
<td>HSCI 550</td>
<td>Health Aspects of Death and Dying</td>
</tr>
<tr>
<td>KINE 360</td>
<td>Physical Activity and Aging</td>
</tr>
<tr>
<td>PSYC 540</td>
<td>Work, Retirement and Leisure</td>
</tr>
<tr>
<td>PSYC 575</td>
<td>Internship in Psychology</td>
</tr>
<tr>
<td>SOC 340</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology</td>
</tr>
<tr>
<td>SOC 434</td>
<td>Community Organization</td>
</tr>
<tr>
<td>SOC 575</td>
<td>Internship in Sociology</td>
</tr>
<tr>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
</tr>
</tbody>
</table>

Total Units: 28

**Certificate in Social Services**

**Requirements (32 units)**

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>The Study of Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 339</td>
<td>Socialization</td>
<td>4</td>
</tr>
<tr>
<td>SOC 418</td>
<td>Sociology of Social Welfare</td>
<td>4</td>
</tr>
<tr>
<td>SOC 434</td>
<td>Community Organization</td>
<td>4</td>
</tr>
<tr>
<td>SOC 436</td>
<td>Group Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>SOC 484</td>
<td>Social Casework</td>
<td>4</td>
</tr>
<tr>
<td>SOC 575</td>
<td>Internship in Sociology (for a total of 8)</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units: 32
Master of Arts in Social Sciences and Globalization

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 recommenders or be included in a placement file. It is the applicant’s responsibility to determine if letters have been received.

Admission to candidacy is necessary to advance to classified status. The student must have completed the following:

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 rigors of graduate work. In addition, students are allowed to take a 400- or 500-level course from any University department with the approval of the program coordinator;
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 in Graduate Degree and Program Requirements (p. 60).

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. 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 or Cumulative Project option: A student selecting the thesis or cumulative project option must complete a thesis or project that is approved by his or her faculty committee. The thesis or project must reflect original work and show a level of competence appropriate for a master’s degree. The faculty 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 must enroll in SSCI 699, Thesis or Cumulative Project, in the quarter when completion of the thesis is anticipated.
Degree Requirements (46 units)

Required Courses (26-28)
- ANTH 600  Proseminar in Anthropology  4
- ECON 600  Proseminar in Economics  4
- GEOG 600  Proseminar in Geography  4
- HIST 600  Proseminar in History  4
- PSCI 610  Proseminar in Political Science  4
- SOC 600  Proseminar in Sociology  4
- SSCI 697  Comprehensive Examination  2-4
or SSCI 699  Graduate Project or Thesis

Electives (20)
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).

Total Units 46-48

Track A (Disciplinary Concentration)
1. Twenty units chosen from one of the following six disciplines.
   - Anthropology
   - Economics
   - Geography
   - History
   - Political Science
   - Sociology

Twenty units chosen from one of the following disciplines: 20
- Anthropology
- Economics
- Geography
- History
- Political Science
- Sociology

Eight of these units can be Independent Study chosen from:
- ANTH 595A-E Independent Study
- ANTH 659A-E Independent Graduate Study
- ECON 595A-E Independent Study
- ECON 695A-E Independent Graduate Study in Economics
- GEOG 595A-E Independent Study
- HIST 595A-E Independent Study
- PSCI 595A-E Independent Study
- SOC 595A-E Independent Study
- SSCI 695A-E Directed Graduate Studies

Total Units 20

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  Archaeology of the Southwest  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 340  African-American History, 1620-1865  4
- HIST 341  African-American History, 1865-Present  4
- HIST 344  Women in U.S. History, 1620-1865  4
- HIST 345  Women in U.S. History, 1865-Present  4
- HIST 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  The United States in World War II  4
- HIST 359  The United States, 1945-1980  4
- HIST 540  Constitutional History of the United States  4
- HIST 541  U.S. Citizenship and the Law  4
- HIST 560  History of the American West  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 352A-E  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
1. Twenty units of elective coursework must consist of courses related to a topical focus. Eight units can consist of an independent study. Independent study courses will involve research which focuses on
the student’s topical focus and contribute to the student’s thesis/special field. All coursework must be chosen in consultation with the program coordinator. 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 Topical Focus

Twenty units of elective coursework on a particular topic chosen from the following (based on approval of the Graduate Coordinator).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 316</td>
<td>Archival Practices</td>
</tr>
<tr>
<td>or HIST 316</td>
<td>Archival Practices</td>
</tr>
<tr>
<td>ANTH 318</td>
<td>Introduction to Cultural Resource Management</td>
</tr>
<tr>
<td>or HIST 318</td>
<td>Introduction to Cultural Resource Management</td>
</tr>
<tr>
<td>ANTH 330</td>
<td>Cross-Cultural Child-Rearing Practices</td>
</tr>
<tr>
<td>ANTH 331</td>
<td>Anthropology of Human Development</td>
</tr>
<tr>
<td>ANTH 332</td>
<td>Cross-Cultural Perspectives on Aging</td>
</tr>
<tr>
<td>ANTH 333</td>
<td>Sex and Gender in Cross-Cultural Perspective</td>
</tr>
<tr>
<td>ANTH 334</td>
<td>Anthropology and Film</td>
</tr>
<tr>
<td>ANTH 341</td>
<td>Globalization and Culture</td>
</tr>
<tr>
<td>ANTH 343</td>
<td>Magic, Religion and Science</td>
</tr>
<tr>
<td>ANTH 366</td>
<td>Filipino Cultural Expressions</td>
</tr>
<tr>
<td>ANTH 380</td>
<td>Gender and Language</td>
</tr>
<tr>
<td>ANTH 388</td>
<td>Language and Culture</td>
</tr>
<tr>
<td>ANTH 472</td>
<td>Colonial and Postcolonial Anthropology</td>
</tr>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
</tr>
<tr>
<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
</tr>
<tr>
<td>ECON 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
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<tr>
<td>ECON 360</td>
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</tr>
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<td>ECON 435</td>
<td>Multinational Corporations</td>
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<td>ECON 450</td>
<td>Global Economy</td>
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<td>ECON 500</td>
<td>History of Economic Thought</td>
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<td>ECON 520</td>
<td>Social Economics</td>
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<td>ECON 573</td>
<td>Economics of Crime</td>
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<td>ECON 630</td>
<td>International Economic Issues</td>
</tr>
<tr>
<td>GEOG 307</td>
<td>Transportation Issues and Development</td>
</tr>
<tr>
<td>GEOG 320</td>
<td>Geography of Social Issues</td>
</tr>
<tr>
<td>GEOG 312</td>
<td>Geography of the Developing World</td>
</tr>
<tr>
<td>GEOG 313</td>
<td>Geography of the Developed World</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Military Geography</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation and Natural Resources</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Weather and Climate</td>
</tr>
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<td>GEOG 365</td>
<td>Climate Change</td>
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<tr>
<td>GEOG 370</td>
<td>Landscape Analysis</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Urban Planning and Land Development</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Geography of Economic Activity</td>
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<td>HIST 312</td>
<td>Historical Archaeology</td>
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<td>HIST 326</td>
<td>Historic Preservation</td>
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<tr>
<td>HIST 329</td>
<td>Topics in Public History</td>
</tr>
<tr>
<td>HIST 330</td>
<td>Topics in Oral History</td>
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<tr>
<td>HIST 360</td>
<td>American History Through Film</td>
</tr>
<tr>
<td>HIST 370</td>
<td>History of California</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 375</td>
<td>Museum Methods</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Historical Documentaries</td>
</tr>
<tr>
<td>HIST 379</td>
<td>The History of Madness</td>
</tr>
<tr>
<td>HIST 388</td>
<td>The Rise, Decline and Legacy of Apartheid South Africa</td>
</tr>
<tr>
<td>HIST 451</td>
<td>The History of Health and Medicine in Africa</td>
</tr>
<tr>
<td>HIST 467</td>
<td>Latin American History Through Film</td>
</tr>
<tr>
<td>HIST 480</td>
<td>History of Christianity I</td>
</tr>
<tr>
<td>HIST 481</td>
<td>History of Christianity II</td>
</tr>
<tr>
<td>HIST 495</td>
<td>Politics of Oil</td>
</tr>
<tr>
<td>HIST 516</td>
<td>Advanced Archival Practices</td>
</tr>
<tr>
<td>HIST 518</td>
<td>Advanced Cultural Resource Management</td>
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<td>HIST 523</td>
<td>Advanced Public History</td>
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<td>HIST 524</td>
<td>Advanced Oral History</td>
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<tr>
<td>HIST 575</td>
<td>Internship in History</td>
</tr>
<tr>
<td>HIST 576</td>
<td>Advanced Exhibit Design</td>
</tr>
<tr>
<td>HIST 556</td>
<td>Foreign Relations of the United States</td>
</tr>
<tr>
<td>PSCI 300</td>
<td>Western Political Systems</td>
</tr>
<tr>
<td>PSCI 306</td>
<td>Developing Political Systems</td>
</tr>
<tr>
<td>PSCI 311</td>
<td>Foundations of Modern Political Thought</td>
</tr>
<tr>
<td>PSCI 313</td>
<td>Modern Political Thought</td>
</tr>
<tr>
<td>PSCI 315</td>
<td>Post Modern Political Thought</td>
</tr>
<tr>
<td>PSCI 326</td>
<td>Political Parties and Interest Groups</td>
</tr>
<tr>
<td>PSCI 328</td>
<td>Judicial Process</td>
</tr>
<tr>
<td>PSCI 330</td>
<td>State and Local Politics</td>
</tr>
<tr>
<td>PSCI 342</td>
<td>The Politics of Environment</td>
</tr>
<tr>
<td>PSCI 352A-E</td>
<td>Minority Politics:</td>
</tr>
<tr>
<td>PSCI 400</td>
<td>International Politics</td>
</tr>
<tr>
<td>PSCI 484</td>
<td>National Security Policy</td>
</tr>
<tr>
<td>PSCI 500</td>
<td>International Law</td>
</tr>
<tr>
<td>PSCI 510</td>
<td>International Organization</td>
</tr>
<tr>
<td>PSCI 520</td>
<td>War and Politics</td>
</tr>
<tr>
<td>PSCI 525</td>
<td>Constitutional Interpretation</td>
</tr>
<tr>
<td>PSCI 530</td>
<td>Studies in Political Theory</td>
</tr>
<tr>
<td>PSCI 540</td>
<td>Seminar in Comparative Politics</td>
</tr>
<tr>
<td>PSCI 590</td>
<td>Seminar in International Relations</td>
</tr>
<tr>
<td>PSCI 592</td>
<td>Seminar in Government</td>
</tr>
<tr>
<td>PSCI 606</td>
<td>Analysis of International Terrorism</td>
</tr>
<tr>
<td>PSCI 609</td>
<td>International Relations Theory</td>
</tr>
<tr>
<td>SOC 340</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOC 343</td>
<td>Sociology of Family Violence</td>
</tr>
<tr>
<td>SOC 350</td>
<td>Criminology</td>
</tr>
<tr>
<td>SOC 352</td>
<td>Juvenile Offender</td>
</tr>
<tr>
<td>SOC 354</td>
<td>Deviant Behavior</td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology</td>
</tr>
<tr>
<td>SOC 356</td>
<td>Sociology of Mental Illness</td>
</tr>
<tr>
<td>SOC 358</td>
<td>Punishment and Corrections</td>
</tr>
<tr>
<td>SOC 360</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>SOC 363</td>
<td>Sociology of Mass Communication</td>
</tr>
<tr>
<td>SOC 380</td>
<td>Sociology of Religion</td>
</tr>
<tr>
<td>SOC 410</td>
<td>Sociology of Race and Ethnicity</td>
</tr>
<tr>
<td>SOC 418</td>
<td>Sociology of Social Welfare</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>-------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>SOC 430</td>
<td>Urban Sociology</td>
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<tr>
<td>SOC 432</td>
<td>Political Sociology</td>
</tr>
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<td>SOC 434</td>
<td>Community Organization</td>
</tr>
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<td>SOC 436</td>
<td>Group Dynamics</td>
</tr>
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<td>SOC 440</td>
<td>Social Class</td>
</tr>
<tr>
<td>SOC 444</td>
<td>Sociology of Gender</td>
</tr>
<tr>
<td>SOC 450</td>
<td>White Collar Crime</td>
</tr>
<tr>
<td>SOC 540</td>
<td>Sociology of Education</td>
</tr>
<tr>
<td>SOC 545</td>
<td>Indigenous Peoples</td>
</tr>
<tr>
<td>SOC 590</td>
<td>Seminar in Sociology</td>
</tr>
<tr>
<td>SSCI 515</td>
<td>Model United Nations</td>
</tr>
<tr>
<td>SSCI 516</td>
<td>Model Arab League</td>
</tr>
<tr>
<td>SSCI 590</td>
<td>Seminar in the Social Sciences</td>
</tr>
</tbody>
</table>
Military Science (Army ROTC) Program

Military Science Office
Faculty Office Building, Rooms 124 and 125
(909) 537-5533 Military Science Office website (http://www.csusbarmyrotc.com)

Military Science Program
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.

Program Requirements

Option I (Four Year Program)
Program Requirements (48 units)

Basic Course of Study (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 151</td>
<td>Basic Military Skills I</td>
<td>2</td>
</tr>
<tr>
<td>MILS 152</td>
<td>Basic Military Skills II</td>
<td>2</td>
</tr>
<tr>
<td>MILS 153</td>
<td>Basic Military Skills III</td>
<td>2</td>
</tr>
<tr>
<td>MILS 251</td>
<td>Leadership and Management I</td>
<td>2</td>
</tr>
<tr>
<td>MILS 252</td>
<td>Leadership and Management II</td>
<td>2</td>
</tr>
<tr>
<td>MILS 253</td>
<td>Leadership and Management III</td>
<td>2</td>
</tr>
</tbody>
</table>

Advanced Course of Study (12)

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 351</td>
<td>Small Unit Operations I</td>
</tr>
<tr>
<td>MILS 352</td>
<td>Small Unit Operations II</td>
</tr>
<tr>
<td>MILS 353</td>
<td>Advanced Military Leadership and Management</td>
</tr>
<tr>
<td>MILS 451</td>
<td>Military Law</td>
</tr>
<tr>
<td>MILS 452</td>
<td>Contemporary Military Policy</td>
</tr>
<tr>
<td>MILS 453</td>
<td>Senior Leadership Seminar</td>
</tr>
<tr>
<td>MILS 595</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Leadership Laboratory (12)

Students must be enrolled in the following each quarter they are enrolled in the ROTC Program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 100</td>
<td>Leadership Laboratory (repeat for additional credit)</td>
</tr>
</tbody>
</table>

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)

Computer Literacy. Four units chosen from one of the following four options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 129</td>
<td>Science, Computing and Society (plus two additional units of a CSE course in consultation with program coordinator )</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
</tr>
</tbody>
</table>

Written Communications Skills. Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 306</td>
<td>Expository Writing for Education</td>
</tr>
<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
</tr>
<tr>
<td>HUM 306</td>
<td>Expository Writing for the Humanities</td>
</tr>
<tr>
<td>MGMT 306</td>
<td>Expository Writing for Administration</td>
</tr>
<tr>
<td>NSCI 306</td>
<td>Expository Writing for the Natural Sciences</td>
</tr>
<tr>
<td>SSCI 306</td>
<td>Expository Writing for the Social Sciences</td>
</tr>
</tbody>
</table>

Military History:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 603</td>
<td>Seminar in Modern Military History</td>
</tr>
</tbody>
</table>

Total Units 48

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)

Program Requirements (2)

Basic Course Equivalent:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 260</td>
<td>ROTC Basic Camp</td>
</tr>
</tbody>
</table>

Advanced Course of Study (12)

Twelve units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 351</td>
<td>Small Unit Operations I</td>
</tr>
<tr>
<td>MILS 352</td>
<td>Small Unit Operations II</td>
</tr>
<tr>
<td>MILS 353</td>
<td>Advanced Military Leadership and Management</td>
</tr>
<tr>
<td>MILS 451</td>
<td>Military Law</td>
</tr>
<tr>
<td>MILS 452</td>
<td>Contemporary Military Policy</td>
</tr>
<tr>
<td>MILS 453</td>
<td>Senior Leadership Seminar</td>
</tr>
</tbody>
</table>

Leadership Laboratory (6)

Students must be enrolled in the following each quarter they are enrolled in the ROTC program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILS 100</td>
<td>Leadership Laboratory (repeat for additional credit)</td>
</tr>
</tbody>
</table>

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)

#### Computer Literacy. Four units chosen from one of the following four options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 129</td>
<td>Science, Computing and Society (plus two additional units of a CSE course in consultation with program coordinator)</td>
</tr>
<tr>
<td>IST 101</td>
<td>Introduction to Information Technology</td>
</tr>
</tbody>
</table>

#### Written Communications Skills. Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 306</td>
<td>Expository Writing for Education</td>
</tr>
<tr>
<td>ENG 306</td>
<td>Expository Writing for English</td>
</tr>
<tr>
<td>HUM 306</td>
<td>Expository Writing for the Humanities</td>
</tr>
<tr>
<td>MGMT 306</td>
<td>Expository Writing for Administration</td>
</tr>
<tr>
<td>NSCI 306</td>
<td>Expository Writing for the Natural Sciences</td>
</tr>
<tr>
<td>SSCI 306</td>
<td>Expository Writing for the Social Sciences</td>
</tr>
</tbody>
</table>

#### Military History:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 603</td>
<td>Seminar in Modern Military History</td>
</tr>
</tbody>
</table>

**Total Units**: 32

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.
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)
ES 100 Ethnicity and Race in America 4
ES 300 Research Methods in Ethnic Studies 4

Topic Courses (4)
ES 392 Topics in Ethnic Studies 4
or ES 394 Topics in Ethnic Studies

Electives (16)
In consultation with an Ethnic Studies advisor, 16 units are to be selected from only one of the five specialized concentrations below.

Total Units 28

Note: Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

Specialized Concentration Options

General Ethnic Studies

Select 16 units (no more than one elective course from the same department may count toward elective units) from:

Eight units chosen from the College of Arts and Letters 8
ART 323 Native North American Art
ART 329 Chicano Art
COMM 302 Communication, Language and Culture
COMM 304 Intercultural Communication
COMM 401 Gender, Race and Media
COMM 402 Ethnography of Communication
COMM 580 Culture and Ethnicity in Language
ENG 314 American Indian Literature
ENG 323 Chicano Literature
ENG 339 African American Literature
HUM 335 The Origin and Contemporary Role of Latino Culture
HUM 350 The Culture of American Childhood
HUM 370 African Heritage in the Arts
HUM 450 Aspects of Chicana/o Culture
HUM 460 Cultural Studies
MUS 352 African American Music
PHIL 364 Philosophy of Race and Ethnicity
PHIL 375 Non-Western Philosophy

SPAN 435 Chicano Literature in Spanish
TA 462 African-American Theatre and Drama
TA 465 Ethnic Films and Film Makers
TA 468 Chicana/o and U.S. Latina/o Theatre

Eight units chosen from the College of Social and Behavioral Sciences 8
ANTH 306 Aztecs, Maya and their Predecessors
ANTH 307 Incas and their Predecessors
ANTH 323 Native North American Art
ANTH 325 Human Biological Variance and the Concept of Race
ANTH 330 Cross-Cultural Child-Rearing Practices
ANTH 331 Anthropology of Human Development
ANTH 332 Cross-Cultural Perspectives on Aging
ANTH 333 Sex and Gender in Cross-Cultural Perspective
ANTH 340 Anthropology of Health, Illness and Healing
ANTH 351 Indians of North America
ANTH 352 Indians of the Southwest
ANTH 365 Asian American Cultures
ANTH 380 Gender and Language
ANTH 388 Language and Culture
ECON 352 Political Economy of Poverty and Discrimination
ES 595A-D Independent Study (for a total of 4 units)
GEOG 322 United States and Mexico Border Issues
HIST 340 African-American History, 1620-1865
HIST 341 African-American History, 1865-Present
HIST 391 Chicano History
HIST 465 Modern Central America
HIST 470 Modern Latin America
HIST 565 Immigration and Ethnic American History
PSYC 340 Stereotyping, Prejudice and Discrimination
PSYC 345 Cross-Cultural Psychology
SOC 410 Sociology of Race and Ethnicity
SOC 425 Asian Americans: Origin and Ethnicity
SOC 441 Black Social Stratification
SOC 442 Chicano Social Stratification
SOC 525 Indian Nations and Native America
SSCI 300 Nonwestern World
SSCI 316 Race and Racism
SSCI 350 Roots of Modern Racism in America
ANTH 323 Native North American Art
or ART 323 Native North American Art

African American Studies

Sixteen units chosen from:

ES 595A-D Independent Study (for a total of 4 units)
ENG 339 African American Literature
HIST 340 African-American History, 1620-1865
HIST 341 African-American History, 1865-Present
HIST 370 African Heritage in the Arts
MUS 352 African American Music
SOC 336 Black Women and Feminism
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 341</td>
<td>Marriage and Family Among Blacks</td>
</tr>
<tr>
<td>SOC 441</td>
<td>Black Social Stratification</td>
</tr>
<tr>
<td>TA 462</td>
<td>African-American Theatre and Drama</td>
</tr>
<tr>
<td>TA 465</td>
<td>Ethnic Films and Film Makers (when the topic pertains to African American studies)</td>
</tr>
</tbody>
</table>

**Asian Pacific American Studies**

Sixteen units chosen from:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTH 365</td>
<td>Asian American Cultures</td>
</tr>
<tr>
<td>ES 595A-D</td>
<td>Independent Study (for a total of 4 units)</td>
</tr>
<tr>
<td>PHIL 375</td>
<td>Non-Western Philosophy</td>
</tr>
<tr>
<td>SOC 425</td>
<td>Asian Americans: Origin and Ethnicity</td>
</tr>
<tr>
<td>TA 465</td>
<td>Ethnic Films and Film Makers (when the topic pertains for Asian American/Asian Pacific American)</td>
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</tbody>
</table>

**Chicano(a)/Latino(a) Studies**

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 329</td>
<td>Chicano Art</td>
</tr>
<tr>
<td>COMM 409</td>
<td>Latina/os, Media and Culture</td>
</tr>
<tr>
<td>ENG 323</td>
<td>Chicano Literature</td>
</tr>
<tr>
<td>ES 595AD</td>
<td>Independent Study (for a total of 4 units)</td>
</tr>
<tr>
<td>GEOG 322</td>
<td>United States and Mexico Border Issues</td>
</tr>
<tr>
<td>HIST 391</td>
<td>Chicano History</td>
</tr>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
</tr>
<tr>
<td>HUM 450</td>
<td>Aspects of Chicana/o Culture</td>
</tr>
<tr>
<td>SOC 342</td>
<td>The Chicano Family</td>
</tr>
<tr>
<td>SOC 442</td>
<td>Chicano Social Stratification</td>
</tr>
<tr>
<td>SPAN 435</td>
<td>Chicano Literature in Spanish</td>
</tr>
<tr>
<td>TA 465</td>
<td>Ethnic Films and Film Makers (when the topic pertains to Chicano)</td>
</tr>
<tr>
<td>TA 468</td>
<td>Chicana/o and U.S. Latina/o Theatre</td>
</tr>
</tbody>
</table>

**Native American Studies**

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTH 305</td>
<td>North American Prehistory</td>
</tr>
<tr>
<td>ANTH 306</td>
<td>Aztecs, Maya and their Predecessors</td>
</tr>
<tr>
<td>ANTH 307</td>
<td>Incas and their Predecessors</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Indians of North America</td>
</tr>
<tr>
<td>ANTH 352</td>
<td>Indians of the Southwest</td>
</tr>
<tr>
<td>ART 323</td>
<td>Native North American Art</td>
</tr>
<tr>
<td>ENG 314</td>
<td>American Indian Literature</td>
</tr>
<tr>
<td>ES 595A-D</td>
<td>Independent Study (for a total of 4 units)</td>
</tr>
<tr>
<td>SOC 525</td>
<td>Indian Nations and Native America</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ES 102</td>
<td>Chicano(a)/Latino(a) Culture: An Overview</td>
<td>4</td>
</tr>
<tr>
<td>ES 300</td>
<td>Research Methods in Ethnic Studies</td>
<td>4</td>
</tr>
<tr>
<td>ES 394</td>
<td>Topics in Ethnic Studies</td>
<td>4</td>
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<tr>
<td></td>
<td>Eight units chosen from:</td>
<td>8</td>
</tr>
<tr>
<td>ANTH 306</td>
<td>Aztecs, Maya and their Predecessors</td>
<td></td>
</tr>
<tr>
<td>ES 595A-D</td>
<td>Independent Study (for a total of 4 units)</td>
<td></td>
</tr>
<tr>
<td>HIST 391</td>
<td>Chicano History</td>
<td></td>
</tr>
<tr>
<td>PSCI 352C</td>
<td>Minority Politics: Latino Politics</td>
<td></td>
</tr>
<tr>
<td>SOC 342</td>
<td>The Chicano Family</td>
<td></td>
</tr>
<tr>
<td>SOC 442</td>
<td>Chicano Social Stratification</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eight units chosen from:</td>
<td>8</td>
</tr>
<tr>
<td>ART 328</td>
<td>Mexican Art</td>
<td></td>
</tr>
<tr>
<td>ART 329</td>
<td>Chicano Art</td>
<td></td>
</tr>
<tr>
<td>ENG 323</td>
<td>Chicano Literature</td>
<td></td>
</tr>
<tr>
<td>HUM 335</td>
<td>The Origin and Contemporary Role of Latino Culture</td>
<td></td>
</tr>
<tr>
<td>HUM 450</td>
<td>Aspects of Chicana/o Culture</td>
<td></td>
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<tr>
<td>SPAN 435</td>
<td>Chicano Literature in Spanish</td>
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<tr>
<td></td>
<td>Total Units</td>
<td>28</td>
</tr>
</tbody>
</table>
### Minor in Islamic and Middle Eastern Studies

#### Requirements (32 units)

#### Requirements for a minor in Islamic and Middle Eastern Studies

**Core Courses (16)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 358</td>
<td>Peoples of the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>HIST 383</td>
<td>Classical Islamic Civilization</td>
<td>4</td>
</tr>
<tr>
<td>HUM 375</td>
<td>The World of Islam</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 308</td>
<td>Government and Politics of the Middle East</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (16)**

Sixteen units chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 303</td>
<td>Prehistory of the Middle East and Europe</td>
</tr>
<tr>
<td>ARAB 216</td>
<td>Introduction to Arabic Literary Texts</td>
</tr>
<tr>
<td>ARAB 290</td>
<td>Arabic Literature in Translation</td>
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<tr>
<td>ARAB 370</td>
<td>Arabic Film and Culture</td>
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<tr>
<td>ARAB 470A-E</td>
<td>Contemporary Issues in Arab Culture: Emerging Architecture</td>
</tr>
<tr>
<td>ARAB 471</td>
<td>Media in the Arab World</td>
</tr>
<tr>
<td>ARAB 480</td>
<td>Special Topics in Classical Islamic Texts</td>
</tr>
<tr>
<td>ARAB 481</td>
<td>Special Topics in Contemporary Arabic Literature</td>
</tr>
<tr>
<td>COMM 565</td>
<td>Advanced Topics in Media Studies (when the topic is Islamic/Middle East)</td>
</tr>
<tr>
<td>ENG 319</td>
<td>Studies in Literary Diversity (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)</td>
</tr>
<tr>
<td>HIST 330</td>
<td>Topics in Oral History (when the topic is Middle Eastern)</td>
</tr>
<tr>
<td>HIST 384</td>
<td>Modern Middle East</td>
</tr>
<tr>
<td>HIST 480</td>
<td>History of Christianity I</td>
</tr>
<tr>
<td>HIST 485</td>
<td>Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 486</td>
<td>Modern Iran</td>
</tr>
<tr>
<td>HIST 487</td>
<td>Topics in Modern Middle Eastern History</td>
</tr>
<tr>
<td>HIST 491</td>
<td>Nationalism and Conflict in the Middle East</td>
</tr>
<tr>
<td>HIST 492</td>
<td>U.S. Media and the Middle East</td>
</tr>
<tr>
<td>HIST 493</td>
<td>Iran-U.S. Relations</td>
</tr>
<tr>
<td>PSCI 540</td>
<td>Seminar in Comparative Politics (when the topic is Islamic/Middle East)</td>
</tr>
</tbody>
</table>

An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on a Middle Eastern topic.

**Total Units**: 32
School 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 School of Social Work website (http://socialwork.csusb.edu)

Bachelor of Arts
Social Work

Master of Social Work

Current Faculty
Janet C. Chang, Professor
B.A. 1998, Ewha Women’s University, Seoul, Korea
University, Los Angeles

Thomas D. Davis, Associate Professor
Long Beach
Ph.D. 2001, University of Washington

Cory Dennis, Assistant Professor
Ph.D., University at Albany State, University of York, 2012

Shyra Harris, Lecturer
B.A. 2009, M.S.W. 2011, California State University, San Bernardino

Ray Liles, Lecturer
B.A. 1975, California State University, Fullerton
M.S.W. 1977, University of Southern California
D.S.W. 1984, University of California, Los Angeles

Erica Lizano, Assistant Professor
B.A. 2005, California State University, Fullerton
M.S. 2007, University of Southern California

Carolyn McAllister, Assistant Professor
B.A. 1996, University of California, Davis
M.S.W. 1999, University of California, Los Angeles
Ph.D. 2003, Michigan State University

Rosemary McCaslin, Professor
B.A. 1970, University of Texas at Austin
A.M. 1973, Ph.D. 1980, University of Chicago

Herbert P. Shon, Assistant Professor
B.A. 1987, California State University, Los Angeles

Laurie Smith, Professor, Director
B.A. 1980, Michigan State University
M.S.W. 1990, University of Minnesota
Ph.D. 1999, University of California, Los Angeles

Rachel Strydom, Lecturer
B.A. 2009, M.F.A. 2011 California State University, San Bernardino

Emeriti
Morley Glicken, Professor

Melvin G. Hawkins, Professor

Marshall Jung, Professor

Nancy Mary, Professor

Teresa Morris, Professor

Undergraduate Degree

Bachelor of Arts
• Social Work (p. 834)

Graduate Degree
• Master of Social Work (p. 835)

Courses

SW 200. Introduction to Social Work. 4 Units.
Introductory survey of levels of social work practice and fields of practice.
Review of NASW professional code of ethics and social work resources.

SW 300A. Social Welfare Policy I. 4 Units.
Prerequisites: admission to B.A. in Social Work
History of social work, development of structures of social welfare services and the role of policy in service delivery.

SW 300B. Social Welfare Policy II. 4 Units.
Prerequisites: SW 300A
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.

SW 301. Social Work Research. 6 Units.
Prerequisites: SW 300B and SW 302B
Social Work approaches to qualitative and quantitative research that builds knowledge for social work practice. Interpreting and applying social work practice research to students own practice. Skills needed to implement a social work research project in a social work setting. Four hours lecture and six hours laboratory.

SW 302A. Human Behavior and the Social Environment I. 4 Units.
Prerequisites: admission to B.A. in Social Work
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.
SW 302B. Human Behavior and the Social Environment II. 4 Units.
Prerequisites: SW 302A
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.

SW 320. Child Welfare Services. 4 Units.
Prerequisites: SW 300B and SW 302B
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.

SW 325. Social Work Interventions in Substance Abuse. 4 Units.
Prerequisites: SW 300B and SW 302B
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.

SW 400A. Social Work Practice I. 4 Units.
Prerequisites: SW 301
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.

SW 400B. Social Work Practice II. 4 Units.
Prerequisites: SW 400A
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.

SW 400C. Social Work Practice III. 4 Units.
Prerequisites: SW 400B
Organizations and Communities. Theories, models and skills for social work interventions with organizations and communities using a generalist model of social work practice. Designed to run concurrently with the field placement education.

SW 401A. Field Work. 4 Units.
Prerequisites: SW 301
Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Field placement hours (160) and monthly seminar. Graded credit/no credit.

SW 401B. Field Work. 4 Units.
Prerequisites: 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 301
Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Field placement hours (160) and monthly seminar. Graded credit/no credit. (4 units).

SW 401C. Field Work. 4 Units.
Prerequisites: admission to B.A. in Social Work, SW 401B, completion of all courses below the 400-level and consent of instructor
Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Graded credit/no credit.

SW 590. Special Topics. 4 Units.
Prerequisites: admission to the B.A. program or consent of instructor.
Special topics in social work. May be repeated for credit with consent of instructor as topics change.

SW 595A. Independent Study. 1 Unit.
Prerequisites: consent of instructor
Special topics involving library and/or field research. May be repeated for credit.

SW 595B. Independent Study. 2 Units.
Prerequisites: consent of instructor
Special topics involving library and/or field research. May be repeated for credit.

SW 595C. Independent Study. 3 Units.
Prerequisites: consent of instructor
Special topics involving library and/or field research. May be repeated for credit.

SW 595D. Independent Study. 4 Units.
Prerequisites: consent of instructor
Special topics involving library and/or field research. May be repeated for credit.

SW 597. Social Work Honors Project. 4 Units.
Prerequisites: SW 301 and consent of instructor
Original in-depth research in an area of social work practice.

SW 602A. Foundation Micro Practice I. 4 Units.
Prerequisites: classified graduate standing in the MSW program and consent of department
Introduction to generalist model of practice with individuals, families and groups, comparative theories of micropractice, introductory intervention skills. Overview of generalist model and history.

SW 602B. Foundation Micro Practice II. 4 Units.
Prerequisites: SW 602A, classified graduate standing in the MSW program and consent of department
Introduction to generalist model of practice with individuals, families and groups, comparative theories of micropractice, introductory intervention skills. Comparative theories and models.

SW 602C. Foundation Micro Practice III. 2 Units.
Prerequisites: SW 602B, classified graduate standing in the MSW program and consent of department
Introduction to generalist model of practice with individuals, families and groups, comparative theories of micropractice, introductory intervention skills. Introductory intervention skills.
SW 604A. Human Behavior in the Social Environment I. 4 Units.
Prerequisites: classified graduate standing in the MSW program and consent of department
Critical appraisal and review of individual development from infancy through old age, from biological, sociological, cultural and psychological perspectives. Birth through adolescence.

SW 604B. Human Behavior in the Social Environment II. 4 Units.
Prerequisites: SW 604A, classified graduate standing in the MSW program and consent of department
Critical appraisal and review of individual development from infancy through old age, from biological, sociological, cultural and psychological perspectives. Adulthood and aging.

SW 606A. Foundation Macro Practice I. 4 Units.
Prerequisites: classified graduate standing in the M.S.W. program and consent of department
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. Overview.

SW 606B. Foundation Macro Practice II. 4 Units.
Prerequisites: SW 606A, classified graduate standing in the M.S.W. program and consent of department
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.

SW 606C. Foundation Macro Practice III. 2 Units.
Prerequisites: SW 606B, classified graduate standing in the M.S.W. program and consent of department
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. Practice theory and models.

SW 608A. Field Work. 4 Units.
Prerequisites: classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (160) and monthly seminar. Graded credit/no credit.

SW 608B. Field Work. 4 Units.
Prerequisites: SW 608A, classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (160) and monthly seminar. Graded credit/no credit.

SW 608C. Field Work. 4 Units.
Prerequisites: SW 608B, classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (160) and monthly seminar. Graded credit/no credit.

SW 608D. Field Work. 4 Units.
Prerequisites: SW 608C, classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (200) and monthly seminar. Graded credit/no credit.

SW 608E. Field Work. 4 Units.
Prerequisites: SW 608D, classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (200) and monthly seminar. Graded credit/no credit.

SW 608F. Field Work. 4 Units.
Prerequisites: SW 608E, classified graduate standing in the MSW program and consent of department
Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Field Placement hours (200) and monthly seminar. Graded credit/no credit.

SW 612. Social Work Research I. 4 Units.
Prerequisites: classified graduate standing in the MSW program and consent of department. Prerequisite: SW 604B
Theory, practice and methods of data collection and analysis. An examination of the role of research in the development of social work.

SW 613. Social Work Research II. 4 Units.
Prerequisites: SW 612
Further examination of the role of research in the development of social work theory, practice and methods of data collection and analysis.

SW 614. Child Abuse and Neglect. 4 Units.
Prerequisites: SW 604B
Critical analysis of child maltreatment and neglect, focusing upon recent research and treatment innovations. Satisfies California LCSW and MFCC requirements.

SW 615. Domestic Violence. 4 Units.
Prerequisites: SW 604B
An introduction to the knowledge, skills, and values utilized in direct social work practice with victims and perpetrators of domestic violence.

SW 618. Mental Health Seminar. 1 Unit.
Required for students who have been awarded the CALSWEC stipend. Includes CALSWEC competencies, addressing micro practice, cultural competence, HBSE, research, and workplace management.

SW 620. Social Work with Alcohol and Drug Abuse. 4 Units.
Prerequisites: SW 604B
An examination of theories, research and treatment regarding alcohol and drug abuse. Satisfies California LCSW and MFCC requirement.
SW 621. Group Work with Alcohol and Drug Abuse. 4 Units.
Training in group work with persons affected by chemical dependency. Course includes group communication theory, a study of behaviors common to chemical dependency, and assessment and techniques of group intervention.

SW 625A. Research Project I. 2 Units.
Prerequisites: 613
A culminating graduate experience in which a practice issue specific to the students field setting and specialization is objectively evaluated and presented orally and in writing. Students gather data and complete initial stages of implementation of research project.

SW 625B. Research Project II. 2 Units.
Prerequisites: SW 625A
Culminating graduate experience in which a practice issue specific to the students field setting and specialization is objectively evaluated and presented orally and in writing. Students complete data analysis, write the research report and present findings.

SW 633. Social Work Intervention with the Elderly and Their Families. 4 Units.
Prerequisites: SW 604B
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.

SW 637. School Social Work. 4 Units.
Prerequisites: SW 604B
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.

SW 638. Public Child Welfare: Policy and Practice. 4 Units.
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.

SW 645. Social Work Advanced Micro Practice I. 4 Units.
Prerequisites: SW 602C
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.

SW 646. Social Work Advanced Micro Practice II. 4 Units.
Prerequisites: SW 645
Models of practice relating to skills and competencies such as case management, inter-agency collaboration and advanced multi-system assessment are addressed.

SW 647. Social Work Advanced Micro Practice III. 2 Units.
Prerequisites: SW 646
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.

SW 655. Social Work Advanced Macro Practice I. 4 Units.
Prerequisites: SW 606C
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/agents and communities in social work settings. This includes social planning, community development, political advocacy, and social action. Formerly SW 650.

SW 656. Social Work Advanced Macro Practice II. 4 Units.
Prerequisites: SW 655
Strategies for organizational and community change including policy practice in both organizational/agency and community settings, coalition building, program development, budgeting, grant writing and interagency networking. Formerly SW 651.

SW 657. Social Work Advanced Macro Practice III. 2 Units.
Prerequisites: SW 656
Leading organizational/agency development and change. Social work roles addressed include supervisor, trainer/mentor, team leader and program evaluator. Formerly SW 652.

SW 660. Advanced Practice Integrative Seminar. 2 Units.
Prerequisites: SW 646 and SW 656, current enrollment in SW 647 and SW 657
Integration of content learned in the micro and macro sequences through the use of case studies and a seminar model of learning.

SW 690. Advanced Topics in Social Work. 4 Units.
Prerequisites: classified graduate standing in the MSW program or consent of instructor
An intensive study of some aspect of social work. May be repeated for credit as topics change.
SW 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
SW 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 699. Thesis Research. 4 Units.
Prerequisites: classified graduate standing and consent of department Preparation of a thesis for the Master of Social Work degree program under the direction of a students thesis committee.

SW 999. Graduate Comprehensive Examination. 0 Units.
Prerequisites: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing. Required for the Pupil Personnel Services Credential, Social Work only. An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Bachelor of Arts 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 generalist social work practice and equips them to work in agency settings with individuals, families, groups and communities who are encountering problems related to personal or social circumstance. The 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) (4)
One of the following:
- ENG 104A Stretch Composition III
- ENG 104B Stretch Composition III for Multilingual Students
- ENG 106A Accelerated Stretch Composition II
- ENG 106B Accelerated Stretch Composition II for Multilingual Students
- ENG 107 Advanced First-Year Composition
Basic Skills in Oral Communication (A2) (4)
- COMM 120 Oral Communication
Basic Skills in Mathematics (A3) (4)
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) (4)
- PSYC 105 Critical Thinking Through Problems Analysis
- or SOC 180 Critical Thinking about Social Problems
Natural Sciences Breadth Area (B2) (5)
- BIOL 100 Topics in Biology
Humanities Breadth Area (C3) (4)
- SPAN 103 College Spanish III
Social and Behavioral Sciences Breadth Area (D4) (8)
- PSYC 100 Introduction to Psychology
- SOC 100 The Study of Society
Additional Lower Division Requirements to enter the B.A. in Social Work (8)
SW 200 Introduction to Social Work
One of the following:
- ECON 250 Statistics for Economists
- PSYC 210 Psychological Statistics
- ADMN 210 Applied Business Statistics
- CJUS 101 Introduction to the Criminal Justice System

School Regulations
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)
Four units chosen from the following (which also meets the Multicultural/Gender Requirement (G1)
- HUM 325 Perspectives on Gender
- NSCI 325 Perspectives on Gender
- SSCI 316 Race and Racism
- SSCI 325 Perspectives on Gender
- SSCI 350 Roots of Modern Racism in America
- PSYC 390 Abnormal Psychology
or PSYC 391  Psychopathology of Childhood  4
Four units chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<td>PSYC 382</td>
<td>Psychology of Social Behavior</td>
<td>4</td>
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<tr>
<td>SOC 339</td>
<td>Socialization</td>
<td></td>
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<tr>
<td>SOC 360</td>
<td>Social Psychology</td>
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<tr>
<td>PSCI 380</td>
<td>Introduction to Public Administration</td>
<td>4</td>
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<tr>
<td>or PA 380</td>
<td>Introduction to Public Administration</td>
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<tr>
<td>SW 300A</td>
<td>Social Welfare Policy I</td>
<td>4</td>
</tr>
<tr>
<td>SW 300B</td>
<td>Social Welfare Policy II</td>
<td>4</td>
</tr>
<tr>
<td>SW 301</td>
<td>Social Work Research</td>
<td>6</td>
</tr>
<tr>
<td>SW 302A</td>
<td>Human Behavior and the Social Environment I</td>
<td>4</td>
</tr>
<tr>
<td>SW 302B</td>
<td>Human Behavior and the Social Environment II</td>
<td>4</td>
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Four units chosen from:

<table>
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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SW 320</td>
<td>Child Welfare Services</td>
<td>4</td>
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<tr>
<td>SW 325</td>
<td>Social Work Interventions in Substance Abuse</td>
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<tr>
<td>SW 590</td>
<td>Special Topics</td>
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<td>SW 400A</td>
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<tr>
<td>SW 400B</td>
<td>Social Work Practice II</td>
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<td>SW 400C</td>
<td>Social Work Practice III</td>
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<tr>
<td>SW 401A</td>
<td>Field Work</td>
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<tr>
<td>SW 401B</td>
<td>Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 401C</td>
<td>Field Work</td>
<td>4</td>
</tr>
</tbody>
</table>

**Discipline requirements (8)**

Courses taken to satisfy upper-division requirements cannot count toward the eight units for the discipline requirement.

Eight units in one of the following disciplines 8

**Total Units** 74

**Criminal Justice**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJUS 354</td>
<td>Victimology</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 370</td>
<td>Law and the Courts</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 460</td>
<td>Alcohol, Drugs, and the Criminal Justice System</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 462</td>
<td>Domestic Violence and the Criminal Justice System</td>
<td>4</td>
</tr>
<tr>
<td>CJUS 465</td>
<td>Hate Crime and Law Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

**Economics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 333</td>
<td>Political Economy of Women: Money, Sex, Race, and Power</td>
<td>4</td>
</tr>
<tr>
<td>ECON 352</td>
<td>Political Economy of Poverty and Discrimination</td>
<td>4</td>
</tr>
<tr>
<td>ECON 357</td>
<td>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People</td>
<td>4</td>
</tr>
<tr>
<td>ECON 445</td>
<td>Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>ECON 520</td>
<td>Social Economics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Human Development**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD 205</td>
<td>Diversity in Child Development</td>
<td>4</td>
</tr>
<tr>
<td>HD 324</td>
<td>Developmental Psychobiology</td>
<td>4</td>
</tr>
<tr>
<td>HD 372</td>
<td>Psychology of Death and Dying</td>
<td>4</td>
</tr>
</tbody>
</table>

**Political Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 330</td>
<td>State and Local Politics</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 528</td>
<td>Formulation of Public Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

**Psychology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 303</td>
<td>Parenting and Family Relations</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Psychology of Middle Childhood</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 328</td>
<td>Psychology of Adolescent Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 329</td>
<td>Psychology of Adulthood and Aging</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Behavior Modification: Principles and Applications</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 386</td>
<td>Introduction to Psychotherapy</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 387</td>
<td>Community Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Sociology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 340</td>
<td>Sociology of the Family</td>
<td>4</td>
</tr>
<tr>
<td>SOC 343</td>
<td>Sociology of Family Violence</td>
<td>4</td>
</tr>
<tr>
<td>SOC 410</td>
<td>Sociology of Race and Ethnicity</td>
<td>4</td>
</tr>
<tr>
<td>SOC 440</td>
<td>Social Class</td>
<td>4</td>
</tr>
<tr>
<td>SOC 442</td>
<td>Chicano Social Stratification</td>
<td>4</td>
</tr>
</tbody>
</table>

**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:
   SOC 307 Social Research I 5
   SOC 339 Socialization 4
   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 625A and SW 625B, which will fulfill the graduation writing requirement;
7. Any additional requirements not cited above and listed in Graduate Degree and Program Requirements (p. 60).

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)

Foundation Micro Practice:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 602A</td>
<td>Foundation Micro Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 602B</td>
<td>Foundation Micro Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SW 602C</td>
<td>Foundation Micro Practice III</td>
<td>2</td>
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</table>

Foundation Macro Practice:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 606A</td>
<td>Foundation Macro Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 606B</td>
<td>Foundation Macro Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SW 606C</td>
<td>Foundation Macro Practice III</td>
<td>2</td>
</tr>
</tbody>
</table>

HBSE:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SW 604A</td>
<td>Human Behavior in the Social Environment I</td>
<td>4</td>
</tr>
<tr>
<td>SW 604B</td>
<td>Human Behavior in the Social Environment II</td>
<td>4</td>
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Research:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 612</td>
<td>Social Work Research I</td>
<td>4</td>
</tr>
<tr>
<td>SW 613</td>
<td>Social Work Research II</td>
<td>4</td>
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</tbody>
</table>

Field:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 608A</td>
<td>Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 608B</td>
<td>Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 608C</td>
<td>Field Work</td>
<td>4</td>
</tr>
</tbody>
</table>

Four units of electives, approved by advisor if taken outside the school.

Advanced Year (38)

Research:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 625A</td>
<td>Research Project I</td>
<td>2</td>
</tr>
<tr>
<td>SW 625B</td>
<td>Research Project II</td>
<td>2</td>
</tr>
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</table>
Field:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 608D</td>
<td>Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 608E</td>
<td>Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 608F</td>
<td>Field Work</td>
<td>4</td>
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</table>

Advanced Practice Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 645</td>
<td>Social Work Advanced Micro Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 646</td>
<td>Social Work Advanced Micro Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SW 647</td>
<td>Social Work Advanced Micro Practice III</td>
<td>2</td>
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</table>

Macro Practice:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 655</td>
<td>Social Work Advanced Macro Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SW 656</td>
<td>Social Work Advanced Macro Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SW 657</td>
<td>Social Work Advanced Macro Practice III</td>
<td>2</td>
</tr>
</tbody>
</table>

Integrative Seminar:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 660</td>
<td>Advanced Practice Integrative Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units: 90

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.
Interdisciplinary Studies

Office of the Associate Vice President of Undergraduate Studies

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

Certificate
Health Equity and Health Disparities

Course Offerings

Students in the M.A. in Interdisciplinary Studies program may use one of the following courses for graduate level independent study: ADMN 695, EDUC 601, HUM 695, NSCI 695, SSCI 695.

Undergraduate Degrees

Bachelor of Arts
• Special Major (p. 841)

Certificate
Health Equity and Health Disparities (p. 843)

   Coordinator: Dale Lund

Courses

IS 400. Research Ethics. 4 Units.
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.

IS 696A. Graduate Project. 1 Unit.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696B. Graduate Project. 2 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696C. Graduate Project. 3 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696D. Graduate Project. 4 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696E. Graduate Project. 5 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696F. Graduate Project. 6 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696G. Graduate Project. 7 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696H. Graduate Project. 8 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.

IS 696I. Graduate Project. 9 Units.
Prerequisites: advancement to candidacy
Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A.
IS 698A. Continuous Enrollment for Graduate Candidacy Standing. 1 Unit.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 698B. Continuous Enrollment for Graduate Candidacy Standing. 2 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 698C. Continuous Enrollment for Graduate Candidacy Standing. 3 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 698D. Continuous Enrollment for Graduate Candidacy Standing. 4 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 698E. Continuous Enrollment for Graduate Candidacy Standing. 5 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 698F. Continuous Enrollment for Graduate Candidacy Standing. 6 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies.
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.
IS 698Z. Continuous Enrollment for Graduate Candidacy Standing. 0 Units.
Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master’s degree. To retain classified standing in the master’s program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. 698 is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 699A. Graduate Thesis. 1 Unit.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699B. Graduate Thesis. 2 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699C. Graduate Thesis. 3 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699D. Graduate Thesis. 4 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699E. Graduate Thesis. 5 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699F. Graduate Thesis. 6 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699G. Graduate Thesis. 7 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699H. Graduate Thesis. 8 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.

IS 699I. Graduate Thesis. 9 Units.
Prerequisites: advancement to candidacy
Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts.
Bachelor of Arts with Special Major

Office of the Associate Vice President of Undergraduate Studies

University Hall, Room 368
(909) 537-5032 Undergraduate Studies website (http://www.ugs.csusb.edu)

B.A. with Special Major

Requirements (40 units)

Total units required for graduation: 180

Occasionally, students with specialized educational or professional objectives may find that the existing degree programs offered at the university do not satisfy personal needs or career plans and that a carefully structured, interdisciplinary program of study is more appropriate.

The B.A. with Special Major is an interdisciplinary program intended for students with unusual interests and abilities who have the initiative and desire to design their own major with the aid of faculty advisors. The purpose of these individually-designed special majors is to provide a carefully controlled opportunity for exceptional students to design, with faculty approval, a flexible interdisciplinary course of study that leads to a Bachelor of Arts degree.

Admission normally is limited to students who can design (with the aid of a faculty committee) individualized programs organized around a coherent topic or cross-disciplinary subject that involves two or more departments. Occasionally short-term interests in interdisciplinary programs may be served by more structure and degree plans organized by faculty for groups of students.

The B.A. with Special Major is not intended to bypass normal graduation requirements or to avoid certain requirements of a regular major offered at CSUSB or at other nearby institutions. The self-designed major should not substantially duplicate any existing degree offered at CSUSB. Likewise, a Special Major cannot be developed in areas such as architecture, agriculture, or engineering where the campus lacks the necessary faculty expertise to guide the student and supervise the culminating project.

Students must have an overall grade point average of 3.0 including work taken at all institutions and must maintain a 3.0 average in the courses required for the self-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. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal.)

10. In some cases, the University Curriculum Committee may invite students and/or their faculty advisor to discuss the proposal with the committee, especially where clarification or changes are requested.

11. The 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

This program will not be offered during the 2014-2015 academic year.
Certificate in Health Equity and Health Disparities

This certificate is designed as an interdisciplinary certificate that provides a background in disciplines that relate to the social and behavioral determinants of health. Determinants of health are social, cultural, political, and economic factors coupled with individual factors that impact population as well as individual health outcomes. Socio-economic (upstream) factors are shaped by the distribution of money, power and resources at global, national and local levels, which are themselves influenced by policy choices (e.g. policies to promote economic development and reduce poverty; policies to promote healthier homes, neighborhoods, schools, and workplaces; housing policy; policies affecting access to health care; education policy; social policy; community empowerment; social capital; social inclusion/exclusion; transportation policy; job training programs; food policy; health system policy and more). Individual (downstream) factors are those of behavior/lifestyle; gender; genes/family history, stress, income, education, food insecurity, access to health care, and housing.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. 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.

Courses in this program are designed to:

• prepare graduates to participate in community planning and action that will improve the health of an;
• teach students to understand community social, political, and economic factors that affect the way people live, their consequent chance of illness, and their risk of premature death.
• educate students about strategies to advance the capacity of local organizations and agencies to tackle the root causes of health inequities through action, their organizational structure, and policy and law
• help students become better prepared to engage in research that will enhance the understanding of the causes, processes, consequences and prevention of health disparities.

In this statement the key element is to make the students better consumers and users of research.

At least eight units must be outside one’s major. NOTE: The Certificate Coordinator position will be a rotating position (every 2 years) to promote the interdisciplinary nature of the certificate.

Certificate requirements (30-33 units)

Core Courses

Eight units chosen from: 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 340</td>
<td>Anthropology of Health, Illness and Healing</td>
</tr>
<tr>
<td>HSCI 271</td>
<td>Introduction to Public Health</td>
</tr>
<tr>
<td>PSYC 318</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology</td>
</tr>
</tbody>
</table>

Select the required number of courses from each of the following four areas of concentration (total 20 units) 20

Measuring Health Outcomes (4 units required): 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 202</td>
<td>Introduction to Geographic Information Systems and Cartography</td>
</tr>
<tr>
<td>HSCI 451</td>
<td>Principles of Epidemiology</td>
</tr>
<tr>
<td>HSCI 468</td>
<td>Research Methodology in Health Science</td>
</tr>
<tr>
<td>PSYC 310</td>
<td>Applied Research Methods</td>
</tr>
<tr>
<td>SOC 307</td>
<td>Social Research I</td>
</tr>
</tbody>
</table>

Socio-Economic, Behavioral, and Environmental Factor (8 units required): 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 340</td>
<td>Anthropology of Health, Illness and Healing (if not taken in Core Courses)</td>
</tr>
<tr>
<td>ANTH 345</td>
<td>Urban Anthropology</td>
</tr>
<tr>
<td>COMM 304</td>
<td>Intercultural Communication</td>
</tr>
<tr>
<td>COMM 401</td>
<td>Gender, Race and Media</td>
</tr>
<tr>
<td>COMM 560</td>
<td>Health Communication</td>
</tr>
<tr>
<td>GEOG 320</td>
<td>Geography of Social Issues</td>
</tr>
<tr>
<td>HSCI 271</td>
<td>Introduction to Public Health (if not used as a Core course)</td>
</tr>
<tr>
<td>HSCI 359</td>
<td>Global Health</td>
</tr>
<tr>
<td>HSCI 360</td>
<td>Medical Care Organizations</td>
</tr>
<tr>
<td>HSCI 364</td>
<td>Drug and Alcohol Use and Abuse</td>
</tr>
<tr>
<td>PSYC 318</td>
<td>Health Psychology (if not used as a Core course)</td>
</tr>
<tr>
<td>PSYC 387</td>
<td>Community Psychology</td>
</tr>
<tr>
<td>SOC 355</td>
<td>Medical Sociology (if not used as a Core course)</td>
</tr>
</tbody>
</table>

Community Action & Policy (4 units required): 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 344</td>
<td>Applied Anthropology and Social Policy</td>
</tr>
<tr>
<td>HSCI 471</td>
<td>Health Program Planning and Implementation</td>
</tr>
<tr>
<td>PA 305</td>
<td>Organizations in Multicultural and Diverse Societies</td>
</tr>
<tr>
<td>PA 472</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>PA 516</td>
<td>Public and Non-Profit Project Management</td>
</tr>
<tr>
<td>PSCI 320</td>
<td>The Legislative Process</td>
</tr>
<tr>
<td>SOC 432</td>
<td>Political Sociology</td>
</tr>
<tr>
<td>SOC 434</td>
<td>Community Organization</td>
</tr>
</tbody>
</table>

Specific Populations (4 units required): 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 365</td>
<td>Asian American Cultures</td>
</tr>
<tr>
<td>COMM 409</td>
<td>Latina/os, Media and Culture</td>
</tr>
<tr>
<td>GEOG 322</td>
<td>United States and Mexico Border Issues</td>
</tr>
<tr>
<td>SOC 440</td>
<td>Social Class</td>
</tr>
<tr>
<td>SOC 410</td>
<td>Sociology of Race and Ethnicity</td>
</tr>
<tr>
<td>or SSC 316</td>
<td>Race and Racism</td>
</tr>
<tr>
<td>SSC 315</td>
<td>Cultural Adaptation: The Quest for Survival</td>
</tr>
</tbody>
</table>
Capstone Experience

<table>
<thead>
<tr>
<th></th>
<th>2-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>30-33</td>
</tr>
</tbody>
</table>

Students will complete a “capstone experience” that will integrate and synthesize the health disparities knowledge they gained by completing the certificate coursework. Capstone experience would be supervised and approved by the Certificate Coordinator and Faculty Coordinating Committee. Students will be required to earn 2-5 course credits (minimum of 2 units required) by selecting and completing one of the capstone experiences noted below.

1. Complete a portfolio that includes the course syllabus and course papers from each of the classes taken for credit and a 10-15 page paper that describes what was learned from these courses and integrates the knowledge into an expertise in health equity and health disparities. Guidelines for the portfolio and more details about the paper are available through the Certificate Coordinator. Students can register for 2 units of independent study credit through an approved instructor to complete the portfolio.

2. Complete a one-quarter internship (through an already existing internship program in the student’s major) in a setting relevant to health disparities (approved by the Certificate Coordinator). The internship can be completed for 2-5 units of credit (2 units required as a minimum). In most cases, the internship credit can be counted (with approval) for credit within the student’s major as well as for the Certificate. In addition to completing the requirements of the specific department internship, this option also requires a 10-15 page paper describing what was gained from the internship experience and what was learned about health equity and health disparities. Internships must be approved by the Certificate Coordinator prior to beginning the internship.

3. Complete an approved independent study (between 2-5 units of credit) that results in a paper submitted to a professional or undergraduate journal for publication. Some department’s honors papers might be used to satisfy this option. Students must get approval from the Certificate Coordinator for their plans to complete this option.
Graduate Studies

Office of Graduate Studies

Chaparral Hall, Room 123
(909) 537-5058 Graduate Studies website (http://gradstudies.csusb.edu)

Graduate Degrees

• Master of Arts in Interdisciplinary Studies (p. 846)

• Master of Arts in Interdisciplinary Studies: E-Marketing Communication and New Media (p. 848)
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.

No more than eight units of proposed 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 in Graduate Degree and Program Requirements (p. 60).
Master of Arts in Interdisciplinary Studies: E-Marketing Communication and New Media

Requirements (48 units)

This program will not be offered during the 2014-2015 academic year.

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.
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