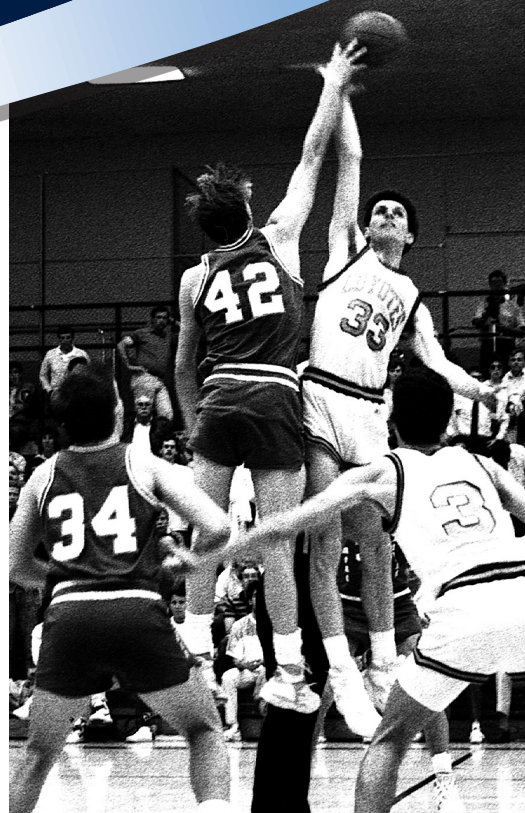




# 2015-2016 Bulletin of Courses



# 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.

The beauty of the campus is one of the first things that strikes our visitors and students. 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, the dedication of the university's faculty and staff means that they 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 eighth 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.

The university's Student Success Initiative focuses 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. CSUSB's Veterans Success Center is a resource for our military personnel. In fact, CSUSB was ranked by *Military Times* as number 1 in the state of California and number 9 in the U.S. as a "Best for Vets" college. These are just a few of the many ways in which CSUSB is committed to our students

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.

If you are a prospective student, please know that at Cal State San Bernardino 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 this sounds like a good fit for you, be sure to apply by November 30.

Please visit [www.csusb.edu](http://www.csusb.edu) or [news.csusb.csusb.edu](http://news.csusb.csusb.edu), our university news site, for more information.

I look forward to seeing you on campus.

Sincerely,

Tomás D. Morales, Ph.D.  
President

# Table of Contents

Home .....	8	Bachelor of Arts in Art - Plan III (Art History) .....	193
About the Bulletin .....	9	Bachelor of Arts in Art - Plan IV (Graphic Design) .....	194
The CSU System .....	10	Bachelor of Arts in Art - Plan V (Graphic Design and Marketing) .....	195
About the University .....	16	Certificate in Business Skills for the Artist .....	195
Palm Desert Campus (PDC) .....	21	Master of Arts in Art - Art Education .....	195
Accreditation .....	25	Master of Arts in Art - Studio Art .....	196
Academic Calendar .....	26	Master of Fine Arts in Studio Art .....	198
Admission .....	28	Minor in Art History .....	199
Undergraduate Degrees and Programs .....	41	Minor in Graphic Design - Print .....	199
Undergraduate Studies .....	41	Minor in Graphic Design - Web .....	199
Undergraduate Degree and Program Requirements .....	43	Minor in Studio Art .....	199
University Honors .....	46	Department of Communication Studies .....	201
General Education Program .....	47	Bachelor of Arts in Communication .....	212
Undergraduate Degrees .....	51	Certificate in Asian Studies .....	214
Minors .....	53	Certificate in Communication Skills .....	215
Certificates .....	55	Certificate in Conflict Management .....	215
Credentials .....	57	Master of Arts in Communication Studies .....	216
Programs .....	57	Minor in Asian Studies .....	218
Undergraduate Degrees and Programs under Development .....	59	Minor in Communication .....	219
Graduate Degrees and Programs .....	60	Minor in Film Studies .....	220
Graduate Degree and Program Requirements .....	60	Minor in Intercultural Communication .....	220
Graduate Degrees .....	66	Minor in Public Relations .....	220
Certificates .....	67	Minor in Script Writing .....	221
Credentials .....	69	Department of English .....	222
Graduate Degrees and Programs under Development .....	70	Bachelor of Arts in English .....	236
Academic Support and Campus Services .....	71	Certificate in Teaching English as a Second Language ...	237
Student Life .....	79	Certificate in Teaching Writing .....	237
Financial Information .....	86	Certificate in Writing: Creative Writing .....	238
Academic Regulations and Standards .....	102	Certificate in Writing: Professional Writing .....	238
Extended Learning (CEL) .....	129	Master of Arts in English Composition .....	239
Faculty .....	132	Master of Fine Arts in Creative Writing .....	242
Bulletin Contents .....	160	Minor in English .....	244
Degrees and Programs A-Z .....	166	Department of Music .....	246
Colleges, Schools, and Departments .....	170	Bachelor of Arts in Music .....	260
College of Arts and Letters .....	171	Bachelor of Music in Performance .....	261
Bachelor of Arts in American Studies .....	179	Minor in Jazz Studies .....	264
Department of Art .....	180	Minor in Music .....	264
Bachelor of Arts in Art - Plan I (Visual Studies) .....	190	Minor in Recording Arts .....	264
Bachelor of Arts in Art - Plan II (Studio Art) .....	192	Department of Philosophy .....	266
		Bachelor of Arts in Philosophy .....	270
		Minor in Law and Philosophy .....	271

Minor in Philosophical Logic .....	271	B.A. in Administration Entrepreneurial Management Concentration .....	361
Minor in Philosophy .....	272	B.A. in Administration Finance Concentration .....	362
Minor in Philosophy, Policy, and Economics .....	272	B.A. in Administration Financial Planning Concentration .....	363
Department of Theatre Arts .....	273	B.A. in Administration Human Resource Management Concentration .....	363
Bachelor of Arts in Theatre Arts .....	284	B.A. in Administration Information Systems and Technology Concentration .....	364
Certificate in Puppetry .....	285	B.A. in Administration International Business Concentration .....	365
Certificate in Theatre for Youth .....	286	B.A. in Administration Management Concentration .....	366
Master of Arts in Theatre Arts .....	286	B.A. in Administration Marketing Concentration .....	367
Minor in Theatre Arts .....	287	B.A. in Administration Public Administration Concentration ....	368
Department of World Languages and Literatures .....	290	B.A. in Administration Real Estate Concentration .....	369
Bachelor of Arts in Arabic Language, Literature, and Culture .....	324	B.A. in Administration Sports and Entertainment Marketing ...	369
Bachelor of Arts in French .....	329	B.A. in Administration Supply Chain and Transportation Management Concentration .....	370
Bachelor of Arts in Spanish .....	330	B.S. in Administration Information Systems and Technology Concentration .....	371
Certificate for German/English Translators .....	332	Bachelor of Science in Administration Cyber Security Concentration .....	371
Certificate in Arabic .....	333	Certificate in Accounting .....	372
Certificate in Bilingual/Cross-Cultural Studies: Spanish/ English .....	334	Certificate in Cyber Security .....	372
Certificate in California Indian Languages and Cultures .....	334	Certificate in Information Systems Management .....	373
Certificate in French/English Translation .....	335	Certificate in Supply Chain Management .....	373
Certificate in Hispanic Literatures .....	335	Department of Accounting and Finance .....	374
Certificate in Japanese Language and Culture .....	336	Master of Science in Accountancy .....	382
Certificate in Spanish Applied Linguistics .....	336	Master of Science in Accountancy (3:2 Program Option) .....	383
Certificate in Spanish for Public Services .....	337	Department of Information and Decision Sciences .....	385
Healthcare Spanish Certificate .....	337	Bachelor of Science in Information Systems and Technology .....	392
Master of Arts in Spanish .....	338	Department of Management .....	392
Minor in Arabic .....	339	Department of Marketing .....	398
Minor in French .....	340	Department of Public Administration .....	403
Minor in German .....	340	Master of Public Administration .....	407
Minor in Japanese .....	341	Master of Business Administration .....	409
Minor in Spanish .....	341	Master of Business Administration - Executives Option .....	412
Liberal Studies Program .....	342	Master of Business Administration - Professionals Option .....	412
Bachelor of Arts in Liberal Studies - Arts and Letters Track (Non-credential) .....	342	Minor in Accounting .....	413
Bachelor of Arts in Liberal Studies - General Track (Pre- Credential) .....	343	Minor in Business Administration .....	413
Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential) .....	347	Minor in Business Information Mapping .....	413
Bachelor of Arts in Liberal Studies - Spanish Studies Track .....	350	Minor in Entrepreneurship .....	413
Minor in Latin American Studies .....	353	Minor in Finance .....	413
College of Business and Public Administration .....	355	Minor in Human Resources Management .....	414
B.A. in Administration Accounting Concentration .....	361		

Minor in Information Systems and Technology .....	414	Internship Education Specialist Credential: .....	465
Minor in International Business .....	414	Master of Arts in Education - Special Education Option ...	466
Minor in Management .....	414	Master of Arts in Rehabilitation Counseling .....	469
Minor in Marketing .....	415	Master of Science in Counseling and Guidance .....	470
Minor in Public Administration .....	415	Master of Science in Special Education .....	471
Minor in Real Estate .....	415	Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization .....	473
Minor in Sports and Entertainment Marketing .....	415	Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization .....	474
Minor in Supply Chain Management .....	415	Preliminary Education Specialist Credential: Moderate/ Severe Disabilities with EL Authorization .....	476
College of Education .....	417	Professional Clear Level II Education Specialist Credential: .....	478
Department of Educational Leadership and Technology .....	424	Professional Clear Level II Education Specialist Credential: .....	478
Administrative Services Preliminary (Internship) Credential .....	434	Professional Level II Education Specialist Credential: .....	479
Administrative Services Preliminary Credential .....	435	Pupil Personnel Services Credential: School Counseling .....	479
Administrative Services Professional Credential .....	435	Pupil Personnel Services Credential: School Psychology .....	480
Bachelor of Science in Career and Technical Studies .....	436	Department of Teacher Education and Foundations .....	482
Bachelor of Arts in Career and Technical Studies .....	437	Adapted Physical Education Added Authorization Credential .....	503
Certificate in Career and Technical Education .....	437	Certificate in Crosscultural, Language and Academic Development (CLAD) .....	503
Certificate in E-Learning .....	438	Certificate in Education .....	503
Certificate in Educational Technology .....	438	Certificate in Gender and Sexuality Studies .....	504
Certificate in School Business Management .....	438	Certificate in Holistic and Integrative Education .....	505
Designated Subjects Career and Technical Education Credential .....	439	Certificate in Reading and Literacy .....	505
Doctor of Education in Educational Leadership .....	439	Master of Arts in Education - Bilingual/Cross-Cultural Option .....	506
Master of Arts in Education - Career and Technical Education Option .....	441	Master of Arts in Education - Curriculum and Instruction Option .....	507
Master of Arts in Education - Instructional Technology Option .....	443	Master of Arts in Education - Holistic and Integrative Education Option .....	509
Master of Arts in Education - Teacher Leadership Option .....	445	Master of Arts in Education - Kinesiology Option .....	510
Master of Arts in Educational Administration .....	446	Master of Arts in Education - Reading and Literacy Option .....	511
Minor in Career and Technical Education .....	447	Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) Option .....	513
Supervision and Coordination of Designated Subjects Program .....	447	Master of Arts in Education -Correctional & Alternative Education Option .....	515
Department of Special Education, Rehabilitation and Counseling .....	448	Master of Arts in Education -Mathematics and Science Education Option .....	517
Autism Spectrum Disorder Added Authorization in Special Education Credential .....	458	Master of Science in Science, Technology, Engineering and Mathematics Education Option .....	518
Certificate in Counseling .....	459	Minor in Education .....	520
Certificate in Education of the Gifted and Talented .....	460		
Certificate in Rehabilitation Counseling .....	460		
Early Childhood Special Education Added Authorization Credential .....	460		
Education Specialist Clear Credential .....	461		
Internship Education Specialist Credential: .....	461		
Internship Education Specialist Credential: .....	463		

Minor in Gender and Sexuality Studies .....	521	Master of Public Health .....	599
Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential .....	521	Master of Science in Health Services Administration .....	600
Multiple Subject Credential .....	523	Minor in Health Science .....	601
Multiple Subject Credential and Multiple Subject Credential .....	525	Minor in Nutrition and Food Sciences .....	601
Reading and Literacy Leadership Specialist Credential ...	527	Certificate in Gerontology .....	601
Single Subject - Intern Track Credential .....	528	Certificate in Health Care Management .....	602
Single Subject - Student Teaching Track Credential .....	530	Department of Kinesiology .....	603
College of Natural Sciences .....	532	Bachelor of Science in Kinesiology - Allied Health Professions .....	612
Department of Biology .....	536	Bachelor of Science in Kinesiology - Exercise Science ...	613
Bachelor of Arts in Biology .....	548	Bachelor of Science in Kinesiology - Pedagogy .....	613
Bachelor of Arts in Biology - Integrated Teaching Track .....	548	Certificate in Coaching .....	614
Bachelor of Arts in Biology - Pre-Med Option .....	549	Certificate in Fitness Management .....	615
Bachelor of Science in Bioinformatics .....	550	Certificate in Recreation Leadership .....	615
Bachelor of Science in Biology .....	551	Minor in Kinesiology .....	615
Bachelor of Science in Biology - Ecology and Evolution Option .....	551	Minor in Recreation .....	616
Bachelor of Science in Biology - Pre-Med Option .....	552	Department of Mathematics .....	617
Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation .....	553	Bachelor of Arts in Mathematics .....	626
Master of Science in Biology .....	554	Bachelor of Arts in Mathematics - Teaching Track .....	626
Minor in Biology .....	556	Bachelor of Science in Mathematics .....	627
Certificate in Biotechnology .....	556	Master of Arts in Mathematics .....	629
Department of Chemistry and Biochemistry .....	558	Master of Arts in Teaching-Mathematics .....	630
Bachelor of Arts in Chemistry - Biochemistry Option .....	565	Minor in Applied Mathematics .....	631
Bachelor of Arts in Chemistry - Chemistry Option .....	566	Minor in Mathematics .....	631
Bachelor of Arts in Chemistry - Integrated Teaching Track .....	566	Certificate in Introductory Actuarial Science .....	632
Bachelor of Science in Chemistry - ACS Certified Option .....	568	Certificate in Introductory Mathematics .....	632
Bachelor of Science in Chemistry - Biochemistry Option .....	568	Department of Nursing .....	634
Master of Science in Earth and Environmental Studies ...	569	Bachelor of Science in Nursing .....	641
Minor in Chemistry .....	571	Bachelor of Science in Nursing - RN to BSN Bridge Program .....	642
Department of Geological Sciences .....	572	Master of Science in Nursing .....	644
Bachelor of Arts in Geology .....	580	Department of Physics .....	646
Bachelor of Arts in Geology - Integrated Teaching Track .....	580	Bachelor of Arts in Physics .....	650
Bachelor of Science in Geology .....	581	Bachelor of Science in Physics .....	650
Minor in Geology .....	582	Bachelor of Science in Physics - Applied Physics .....	651
Department of Health Science and Human Ecology .....	583	Minor in Applied Physics .....	651
Bachelor of Science in Health Science .....	597	Minor in Physics .....	651
Bachelor of Science in Nutrition and Food Sciences .....	598	School of Computer Science and Engineering .....	652
		Bachelor of Arts in Computer Systems .....	661
		Bachelor of Science in Computer Engineering .....	662
		Bachelor of Science in Computer Science .....	662
		Master of Science in Computer Science .....	663

Minor in Computer Science .....	665	Bachelor of Arts in History .....	728
Certificate in Computer Systems and Programming .....	665	Minor in History .....	731
College of Social and Behavioral Sciences .....	666	Department of Political Science .....	732
Aerospace Studies (Air Force ROTC) Program .....	672	Bachelor of Arts in Political Science .....	738
Bachelor of Arts in Social Sciences - Credential Track .....	673	Certificate in Intelligence Methodology .....	738
Bachelor of Arts in Social Sciences - Multidisciplinary Track .....	674	Certificate in International Relations .....	739
Certificate in Islamic and Middle Eastern Studies .....	679	Minor in Political Science .....	739
Certificate in Native Nations/Indigenous Peoples Studies .....	680	Minor in Pre-Law .....	739
Department of Anthropology .....	681	Department of Psychology .....	740
Bachelor of Arts in Anthropology .....	688	Bachelor of Arts in Human Development - Child Development Track .....	757
Certificate in Applied Cultural Anthropology .....	689	Bachelor of Arts in Human Development - Lifespan Track .....	758
Certificate in Archaeology .....	689	Bachelor of Arts in Human Development - School Age Track .....	759
Certificate in Latin American Studies .....	690	Bachelor of Arts in Psychology .....	762
Certificate in Museum Studies .....	690	Bachelor of Arts in Psychology - Industrial and Organizational Psychology Concentration .....	763
Master of Arts in Applied Archaeology .....	691	Bachelor of Arts in Psychology - Biological Psychology ...	764
Minor in Anthropology .....	692	Master of Arts in Child Development .....	765
Department of Criminal Justice .....	693	Master of Arts in General Experimental Psychology .....	767
Bachelor of Arts in Criminal Justice .....	700	Master of Science in Psychology .....	768
Bachelor of Arts in Criminal Justice - Crime Analysis Option .....	701	Minor in Psychology .....	770
Certificate in Criminal Justice .....	702	Department of Sociology .....	771
Master of Arts in Criminal Justice .....	702	Bachelor of Arts in Sociology .....	774
Minor in Criminal Justice .....	704	Bachelor of Arts in Sociology - Social Service Track .....	775
Department of Economics .....	705	Certificate in Gerontology .....	775
Bachelor of Arts in Economics .....	708	Certificate in Social Services .....	776
Bachelor of Arts in Economics - Applied Economics .....	709	Minor in Sociology .....	776
Bachelor of Arts in Economics - Mathematical Economics .....	709	Master of Arts in National Security Studies .....	776
Bachelor of Arts in Economics - Political Economy .....	710	Master of Arts in Social Sciences and Globalization .....	778
Minor in Economics .....	710	Master of Science in National Cyber Security Studies .....	782
Minor in Philosophy, Policy, and Economics .....	710	Military Science (Army ROTC) Program .....	784
Minor in Political Economy .....	711	Minor in Ethnic Studies .....	785
Department of Geography and Environmental Studies .....	712	Minor in Ethnic Studies - Chicano(a)/Latino(a) Studies .....	787
Bachelor of Arts in Environmental Studies .....	717	Minor in Islamic and Middle Eastern Studies .....	787
Bachelor of Arts in Geography - Geography Option .....	719	School of Social Work .....	787
Bachelor of Arts in Geography - Global Studies Option ...	719	Bachelor of Arts in Social Work .....	793
Certificate in Geographic Information Systems .....	720	Master of Social Work .....	794
Certificate in Urban Planning .....	720	Interdisciplinary Studies .....	796
Minor in Environmental Studies .....	720	Bachelor of Arts with Special Major .....	796
Minor in Geography .....	721	Certificate in Health Equity and Health Disparities .....	797
Minor in Geography - Global Studies .....	721	Graduate Studies .....	799
Department of History .....	722		

Master of Arts in Interdisciplinary Studies .....	799
Index .....	801

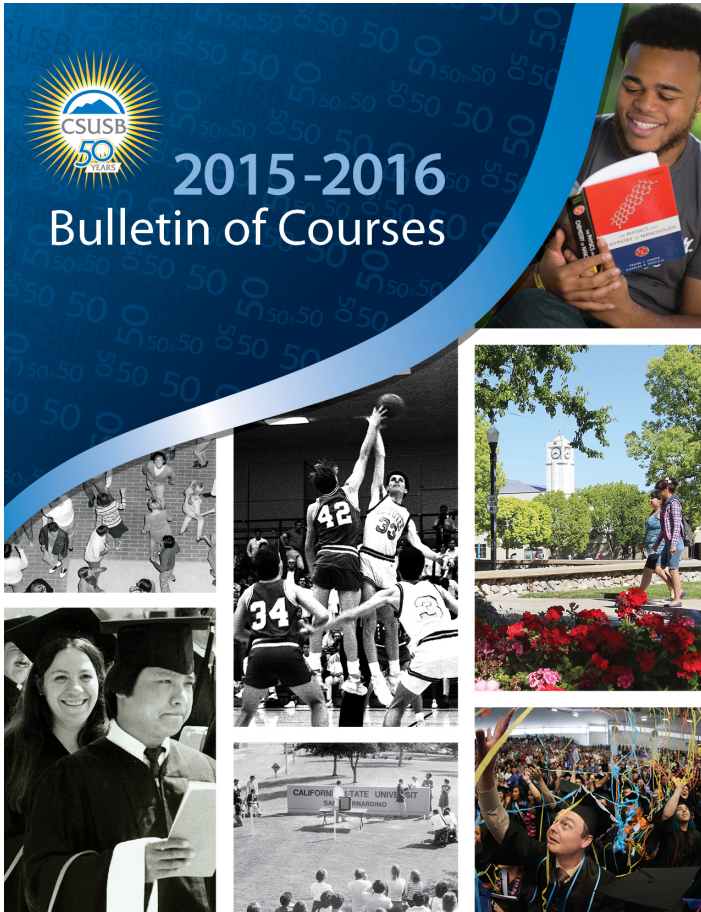


# Home

---

Welcome to the 2015-2016 Bulletin of Courses for California State University San Bernardino.

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 2015-2016 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 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.

## 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.

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. 51, No. 1, May 2015

Please note: in the Print Option (in the left navigation of the online bulletin) the Download PDF of the entire Catalog (<http://bulletin.csusb.edu/pdf/2015-16.pdf>), *All pages in Academic Catalog*, the PDF download will be from the Vol. 51, No. 1, May 2015 version.

For current and updated information please use the Download PDF of this page, *The PDF will include all information unique to this page*, Print Option.

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 world's largest comprehensive higher education system in the nation with 23 unique campuses serving more than 450,000 students with 454,000 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

Since 1961, the CSU has provided an affordable, accessible, and high-quality education to nearly three million graduates around the state of California. 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 leading-edge programs, superior teaching and extensive workforce training opportunities, CSU students graduate with the critical thinking skills, industry knowledge and hands-on experience necessary for employment and career advancement.

## Facts

- CSU faculty attract more than \$580 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 115 fully online hybrid degree programs.
- 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.
- Nearly half of the CSU's 450,000 students are engaged in some type of community service, totaling 32 million hours of service annually.
- More than 9,000 students participate in STEM (science, technology engineering and mathematics) service-learning courses.

- 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, Chancellor 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.

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni that is so extensive and renowned that it spans across the globe. In 2014-15, the CSU will exceed three million alumni, which includes graduates from all CSU campuses as well as the Class of 2015. The CSU strives to continually developing innovative programs, services and opportunities that will give students the tools they need to meet their full potential. With 23 campuses, 450,000 students and 45,000 faculty and staff, the CSU is committed to providing a quality higher education that prepare students to become leaders in the changing workforce.

## 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 Toni G. Atkins  
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)
- Kelsey Brewer (2016)
- Adam Day (2015)
- Rebecca Eisen (2018)
- Douglas Faigin (2017)
- Debra S. Farar (2022)
- Margaret Fortune (2016)
- Lupe Garcia (2020)
- Steven M. Glazer (2019)
- Lillian Kimbell (2016)
- Lou Monville (2016)
- Hugo N. Morales (2020)
- J. Lawrence Norton (2019)
- Steven Stepanek (2015)

## Officers of the Trustees

- President: The Honorable Edmund G. Brown, Jr.
- Chair: Lou Monville
- Secretary: Framroze Virjee
- Treasurer: Stever Relyea

## 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
- Mr. Steve Relyea, 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. Lori Lamb, Vice Chancellor, Human Resources
- Mr. Larry Mandel, Vice Chancellor and Chief Audit Officer

## 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**

800 N. State College Boulevard  
Fullerton, CA 92831-3599

Dr. Mildred Garcia, President

(657) 278-2011 Fullerton website (<http://www.fullerton.edu>)

**Humboldt State University**

One Harpst St.

Arcata, CA 95521-4957

Dr. Lisa Rossbacher, President

(707) 826-3011 Humboldt website (<http://www.humboldt.edu>)

**California State University, Long Beach**

1250 Bellflower Boulevard  
Long Beach, CA 90840-0115

Dr. Jane Close Conoley, President

(562) 985-4111 Long Beach website (<http://www.csulb.edu>)

**California State University, Los Angeles**

5151 State University Drive  
Los Angeles, CA 90032

Dr. William A. Covino, President

(323) 343-3000 Los Angeles website (<http://www.calstatela.edu>)

**California Maritime Academy**

200 Maritime Academy Drive  
Vallejo, CA 94590

Rear Admiral Thomas A. Cropper, President

(707) 654-1000 Maritime Academy website (<http://www.csum.edu>)

**California State University, Monterey Bay**

100 Campus Center  
Seaside, CA 93955-8001

Dr. Eduardo M. Ochoa, Interim President

(831) 582-3330 Monterey Bay website (<http://www.csUMB.edu>)

**California State University, Northridge**

18111 Nordhoff Street  
Northridge, CA 91330

Dr. Dianne F. Harrison, President

(818) 677-1200 Northridge website (<http://www.csun.edu>)

**California State Polytechnic University, Pomona**

3801 West Temple Avenue  
Pomona, CA 91768

Dr. J. Michael Ortiz, President

(909) 869-7659 Pomona website (<http://www.csupomona.edu>)

**California State University, Sacramento**

6000 J Street  
Sacramento, CA 95819

Dr. Alexander Gonzalez, President

(916) 278-6011 Sacramento website (<http://www.csus.edu>)

**California State University, San Bernardino**

5500 University Parkway  
San Bernardino, CA 92407-2393

Dr. Tomás D. Morales, President

(909) 537-5000 San Bernardino website (<http://www.csusb.edu>)

**San Diego State University**

5500 Campanile Drive  
San Diego, CA 92182

Dr. Elliot Hirshman, President

(619) 594-5200 San Diego State University website (<http://www.sdsu.edu>)

**San Francisco State University**

1600 Holloway Avenue  
San Francisco, CA 94132

Dr. Leslie E. Wong, President

(415) 338-1111 San Francisco State University website (<http://www.sfsu.edu>)

**San José State University**

One Washington Square  
San Jose, CA 95192-0001

Mr. Mohammad H. Qayoumi, President

(408) 924-1000 San Jose State University website (<http://www.sjsu.edu>)

**California Polytechnic State University, San Luis Obispo**

One Grand Avenue  
San Luis Obispo, CA 93407

Dr. Jeffrey D. Armstrong, President

(805) 756-1111 San Luis Obispo website (<http://www.calpoly.edu>)

**California State University, San Marcos**

333 South Twin Oaks Valley Road  
San Marcos, CA 92096-0001

Dr. Karen S. Haynes, President

(760) 750-4000 San Marcos website (<http://www.csusm.edu>)

**Sonoma State University**

1801 East Cotati Avenue  
Rohnert Park, CA 94928-3609

Dr. Ruben Armiñana, President

(707) 664-2880 Sonoma State University website (<http://www.sonoma.edu>)

**California State University, Stanislaus**

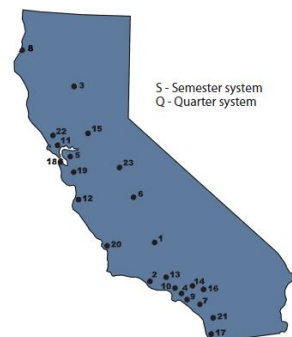
One University Circle  
Turlock, CA 95382

Dr. Joseph F. Sheley, President

(209) 667-3122 Stanislaus website (<http://www.csustan.edu>)

### A world of information is just a click away.

Visit the California State University website at [www.calstate.edu](http://www.calstate.edu) to find out all relevant information about the 23 CSU campuses. The phone numbers listed are the main contact information for the campus office of admission.



- 1 California State University, Bakersfield • Q  
9001 Stockdale Highway, Bakersfield, CA 93311-1099  
(661) 654-3036 • [www.csusb.edu](http://www.csusb.edu)
- 2 California State University, Channel Islands • S  
One University Drive, Camarillo, CA 93012  
(805) 437-8500 • [www.csuci.edu](http://www.csuci.edu)
- 3 California State University, Chico • S  
400 W. First Street, Chico, CA 95929-0722  
(530) 898-6321 • [www.csuchico.edu](http://www.csuchico.edu)
- 4 California State University, Dominguez Hills • S  
1000 East Victoria Street, Carson, CA 90747  
(310) 243-3645 • [www.csudh.edu](http://www.csudh.edu)
- 5 California State University, East Bay • Q  
25800 Carlos Bee Blvd., Hayward, CA 94542-3035  
(510) 885-2784 • [www.csueastbay.edu](http://www.csueastbay.edu)
- 6 California State University, Fresno • S  
5150 North Maple Avenue, Fresno, CA 94542-0057  
(559) 278-2261 • [www.csufresno.edu](http://www.csufresno.edu)
- 7 California State University, Fullerton • S  
800 N. State College Blvd., Fullerton, CA 92834-9480  
(714) 278-2300 • [www.fullerton.edu](http://www.fullerton.edu)
- 8 Humboldt State University • S  
1 Harpst Street, Arcata, CA 95521-4957  
(707) 826-4402 • (866) 850-9556 • [www.humboldt.edu](http://www.humboldt.edu)

- 9 California State University, Long Beach • S  
1250 Bellflower Blvd., Long Beach, CA 90840-0106  
(562) 985-5471 • [www.csulb.edu](http://www.csulb.edu)
- 10 California State University, Los Angeles • Q  
5151 State University Drive, Los Angeles, CA 90032-8530  
(323) 343-3901 • [www.calstatela.edu](http://www.calstatela.edu)
- 11 California Maritime Academy • S  
200 Maritime Academy Drive, Vallejo, CA 94590  
(707) 654-1330 • [www.csum.edu](http://www.csum.edu)
- 12 California State University, Monterey Bay • S  
100 Campus Center Drive, Seaside, CA 93955-8001  
(831) 582-3738 • [www.csUMB.edu](http://www.csUMB.edu)
- 13 California State University, Northridge • S  
18111 Nordhoff Street, Northridge, CA 91330-8207  
(818) 677-3700 • [www.csun.edu](http://www.csun.edu)
- 14 California State Polytechnic University, Pomona • Q  
3801 West Temple Avenue, Pomona, CA 91768-4003  
(909) 869-5299 • [www.csupomona.edu](http://www.csupomona.edu)
- 15 California State University, Sacramento • S  
6000 J Street, Sacramento, CA 95819-6048  
(916) 278-7766 • [www.csus.edu](http://www.csus.edu)
- 16 California State University, San Bernardino • Q  
5500 University Parkway, San Bernardino, CA 92407-2397  
(909) 537-5188 • [www.csusb.edu](http://www.csusb.edu)
- 17 San Diego State University • S  
5500 Campanile Drive, San Diego, CA 92182-7455  
(619) 594-6336 • [www.sdsu.edu](http://www.sdsu.edu)
- 18 San Francisco State University • S  
1600 Holloway Avenue, San Francisco, CA 94132-1722  
(415) 338-1113 • [www.sfsu.edu](http://www.sfsu.edu)
- 19 San José State University • S  
One Washington Square, San José, CA 95192-0016  
(408) 283-7500 • [www.sjsu.edu](http://www.sjsu.edu)
- 20 California Polytechnic State University, San Luis Obispo • Q  
San Luis Obispo, CA 93407  
(805) 756-2311 • [www.calpoly.edu](http://www.calpoly.edu)
- 21 California State University, San Marcos • S  
333 S. Twin Oaks Valley Road  
San Marcos, CA 92096-0001  
(760) 750-4848 • [www.csusm.edu](http://www.csusm.edu)
- 22 Sonoma State University • S  
1801 East Cotati Avenue, Rohnert Park, CA 94928  
(707) 664-2778 • [www.sonoma.edu](http://www.sonoma.edu)
- 23 California State University, Stanislaus • S  
One University Circle, Turlock, CA 95382  
(209) 667-3070 • [www.csustan.edu](http://www.csustan.edu)

## Immigration Requirement for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning these requirements is available from the International Student Services Office, UH-235, (909) 537-5193.

## Career Placement

The Career Development Center may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

## Campus Safety Report

California State University, San Bernardino publishes a "Campus Safety Report" each September 1st in compliance with federal law. The report contains information on campus safety services, policies, procedures

and recent crime statistics. This report is available through the university main web page index listing "Campus Safety Report" and copies may be obtained from the Department of Public Safety.

## Average Support Cost Per Full-Time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2014/15 budget amounts were \$2,399,439,000 from state General Fund (GF) appropriations (not including GF debt service) and before adding \$71.1 million CalPERS retirement adjustment, \$1,592,256,000 from tuition fee revenue and after tuition fee discounts (forgone revenue), and \$453,018,000 from other fee revenues for a total of \$4,444,713,000. The 2014/15 resident FTES target is 346,050 and the nonresident FTES based on past-year actual is 15,568 for a total of 361,618 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 (e.g. 15 units per semester) (the figure used here to define a full-time student's academic load). The 2014/15 average support cost per FTES based on GF appropriation and net tuition fee revenue only is \$11,324 and when including all sources as indicated below is \$13,396, which includes all fee revenue (e.g. tuition fees, application fees, and other campus mandatory fees) and debt service in the CSU Operating Fund. Of this amount, the average net tuition and other fee revenue per FTES is \$5,643.

	Amount	Average Cost per FTES	Percentage
State Appropriation (GF) <sup>1</sup>	2,399,439,000	6,934	51.8%
General Fund	296,316,000	819	6.1%
Debt Service <sup>2</sup>			
Net Tuition Fee Revenue <sup>3</sup>	1,592,256,000	4,390	32.8%
Other Fee Revenue <sup>3</sup>	453,029,000	1,253	9.3%
Total Support Cost	4,741,029,000	13,396	100.0%

<sup>1</sup> Represents state GF appropriation in the Budget Act of 2014/15; GF is divisible by resident students only (346,050 FTES) and does not include General Fund Debt Service.

<sup>2</sup> A major change in the CSU budget appropriation beginning in 2014/15 is the fold in of state General Obligation bond debt service expense (\$197.2M) into the CSU main appropriation and movement of CSU lease revenue bonds debt service from a separately identified appropriations item to the CSU main appropriation item (\$99.1M).

<sup>3</sup> Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2014/15 final budgets. Revenues are divisible by resident and nonresident students (361,618 FTES).

The average CSU 2014/15 academic year, resident, undergraduate student basic tuition fee and other mandatory fees required to apply to, enroll in, or attend the university is \$6,759 (\$5,472 tuition fee plus \$1,287

average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

## Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code Section 89300). The campus President may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the University. Student body association fees support a variety of cultural and recreational programs, 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 [rrenaud@calstate.edu](mailto:rrenaud@calstate.edu).

## 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**  
Institut Catholique de Paris, Université d' Aix-Marseille (Aix-en-Marseille), Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII, Université Paris-Est Marne-la-Vallée, Université d'Evry Val d'Essonne, and Université de Versailles Saint-Quentin-en-Yvelines.
- **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.
- Foster the active engagement of students in the life of the university to facilitate the development of a vibrant campus community.
- Provide a safe and secure environment on campus.
- Improve accessibility of campus buildings and grounds for persons with disabilities.

## V. Community Engagement

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

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

## VI. Infrastructure

Develop and maintain an administrative, fiscal, and physical environment that supports the university mission.

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

## Location and History

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

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

In 1842, the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county

courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

## Inland Southern California

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

## 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. 166) 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, 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

- Ellen Weisser '68, Chairperson
- Amro Albanna '91
- Marie Alonzo
- Ronald Auen
- Sherrie Auen
- Donald Averill
- Glenda Bayless
- Virginia Blumenthal, Esq.
- Michael Bracken '92 & '99
- Jack Brown
- Bob Burlingame
- Lois Carson '67
- Ali Cayir
- Greg Christian
- Henry Coil, Jr.
- Benjamin Cook
- Nicholas Coussoulis '75
- Jim Cuevas
- Sundip Doshi '90
- Mark Edwards, Esq.
- Gerald Fawcett '74
- James Ferguson, Secretary
- Paul Granillo '91
- W. Benson Harer Jr.
- Jim Imbierski
- Cole Jackson
- Mark Kaenal '84 & '89
- Wilfrid Lemann, Esq.
- Dobbin Lo, Esq.
- Paul Mata '87
- Barbara McGee
- Michael Miller
- Yolanda Moses '68
- Richard Oliphant
- Neale Perkins
- Madelaine Pfau
- Steve PonTell
- James Ramos '02

- Ali Razi
- Donovan Rinker-Morris '00
- Philip Savage IV, Esq.
- Paul Shimoff, Esq.
- Jeffrey Shockey '88 & '94
- Ernest Siva
- Jean Stephens '91
- William Stevenson '84
- Dave Stockton
- Bruce Varner, Esq.

## Administrative Officers

<b>President</b>	<b>Tomás D. Morales, Ph.D.</b>
Assistant Vice President, Institutional Effectiveness and Director, Institutional Research	Muriel Lopez-Wagner, Ph.D.
Director, Executive Affairs	Pamela Langford, M.B.A.
Director and Title IX Coordinator	Cristina Martin, M.A.
Assistant Director and Deputy Title IX Coordinator	Krysten Newbury, B.A.
Co-Chief Diversity Officer	Jacqueline Hughes, Ph.D.
Co-Chief Diversity Officer	Cesar Portillo, M.B.A.
Chief of Staff	Tracy Wise, M.A.
<b>Provost and Vice President for Academic Affairs</b>	<b>Andrew Bodman, Ph.D.</b>
Interim Associate Provost, Academic and International Programs	Rong Chen, Ph.D.
Assistant Vice President for International Studies and Programs	Paul Amaya, M.A.
Faculty Director, Center for International Studies and Programs	Rueyling Chuang, Ph.D.
Associate Provost, Research	Jeffrey Thompson, Ph.D.
Director, Research and Sponsored Programs	Rachel Weiss, Ph.D.
Director, Research and Sponsored Programs Administration	Diane Trujillo, B.A.
Associate Provost, Academic Personnel	Jacqueline Hughes, Ph.D.
Dean, Graduate Studies	Jeffrey Thompson, Ph.D.
Associate Dean	Francisca Beer, Ph.D.
Associate Vice President, Dean of Undergraduate Studies	William Vanderberg, Ph.D.
Associate Dean	Chris Lindfelt, Ph.D.
Director, Advising and Academic Services	Raymond Navarro, M.B.A.
Director, Early Assessment Program	Faye Wong, B.A.
Director, Educational Opportunity Program	Veronica Amerson, M.S.
Director, Retention Projects	Qiana Wallace, M.A.

Director, Learning Center	Vacant
Director, S.A.I.L. Program	Debbie Flores, M.A.
Director, University Honors Program	Carol Damgen, M.A.
Director, Writing Center	Maggie Cecil, M.A.
Director, Academic Resources	Jenna Aguirre, M.P.A.
Dean, College of Arts and Letters	Terry Ballman, Ph.D.
Associate Dean	Salaam Yousif, Ph.D.
Dean, College of Business and Public Administration	Lawrence Rose, Ph.D.
Associate Dean	Vipin Gupta, Ph.D.
Associate Dean for International Programs	Frank Lin, Ph.D.
Assistant Dean	Craig Seal, Ph.D.
Dean, College of Education	Jay Fiene, Ph.D.
Associate Dean	Michael, Verdi, Ph.D.
Assistant Dean	Todd Jennings, Ph.D.
Dean, College of Natural Sciences	Kirsty Fleming, Ph.D.
Associate Dean	Peter Williamst, Ph.D.
Director of Programs, Water Resources Institute	Boykin Witherspoon, M.S.
Dean, College of Social and Behavioral Sciences	Jamal Nassar, Ph.D.
Associate Dean	Pamela Schram, Ph.D.
Assistant Dean	Deborah Parsons, Ph.D.
Assistant Dean	David Riefer, Ph.D.
Dean, College of Extended Learning	Tatiana Karmanova, Ph.D.
Associate Dean, International Extension Programs	Jack Paduntin, D.B.A.
Director, Extension Programs	Deirdre Caruthers, M.A.
Dean, CSUSB Palm Desert Campus	Sharon Brown-Welty, Ph.D.
Associate Dean	Doris Wilson, Ed.D.
Special Assistant to the Provost	Jodie Ullman, Ph.D.
Director, Teaching Resource Center	Kim Costino, Ph.D.
Director, Office of Community Engagement	Diane Podolske, Ph.D.
University Librarian, Dean, Pfau Library	Cesar Caballero, M.L.S.
Coordinator, Collection Development	Lisa Bartle, M.L.I.S.
Coordinator, Public Services	Les Kong, M.L.S., M.B.A.
Coordinator, Electronic Resources and Serials	Stacy Magedanz, M.L.S.
Coordinator, Reference	Barbara Quartrou, M.L.I.S.
Coordinator, Special Collection/Archives	Jill Vassilakos-Long, M.L.S.
<b>Vice President for Administration and Finance</b>	<b>Douglas R. Freer, Ed.D.</b>
Associate Vice President for Finance	Monir Ahmed, M.B.A.
Budget Officer	Dena Chester, B.A.
Director of Accounting	Deletta Anderson, B.S., C.P.A.
Assistant Director of Accounting	Matias Farre, M.B.A.

Director, Auxiliary Financial Services	Lisa Iannolo, B.A.
Director, Procurement and Support Services	Kathy Hansen, M.A.
Assistant Vice President, Auxiliary and Business Services, Risk Management	Deborah Burns, B.S.
Associate Vice President, Facilities Planning and Management	Vacant
Director, Capital Planning, Design and Construction	Hamid Azhand, B.S.
Associate Director, Capital Planning, Design, and Construction	B. Michael Wahl, M.A.
Interim Director, Facilities Services	Juan Macias
Associate Vice President, Human Resources	Cesar Portillo, M.B.A.
Director, Environmental Health and Safety	Jon Mohoroski, M.P.A.
Director, Parking and Transportation Services	Ron Profeta, B.A.
Interim University Police Chief	David Keetle
<b>Vice President and Chief Information Officer for Information Technology Services</b>	<b>Samuel Sudhakar, Ph.D.</b>
Associate Vice President, Operations and Customer Support	Gerard Au, B.S.
Director, Academic Technologies and Innovation	Michael Chen, Ph.D.
Assistant Director, Academic Technologies and Innovation	Steven Waldman, M.A.
Director, Administrative Computing and Business Intelligence	Lenora Rodgers, B.S.
Interim Director, Creative Media Services	Steven Waldman, M.A.
Director, Enterprise Applications and Technology Support	Jim O'Linger, B.A.
Director, Information Security and Emerging Technologies	Javier Torner, Ph.D.
Director, Project Management and Assessment	Felix Zuniga, M.B.A.
<b>Vice President for Student Affairs</b>	<b>Brian Haynes, Ph.D.</b>
Associate Dean of Students and Director of Student Conduct and Ethical Development	Sandra Vasquez, Ed.D.
Director, Children's Center	Barbara Kirby, M.A.
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, Office of the Registrar	Grace King, M.P.A.

Director, Student Recruitment and Visitor Services	Christine Degano, M.Ed.
Associate Vice President and Dean of Students	Alysson M. Satterlund, Ph.D.
Interim Director, Career Center	Christina Rodriguez
Director, Housing and Residential Life	Vacant
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.
Interim Director, Santos Manuel Student Union	Aaron Burgess
Interim Director, Associated Students, Inc.	Shannon Stratton, M.S.
<b>Vice President for University Advancement</b>	<b>Ron Fremont, Ed.D.</b>
Associate Vice President, Strategic Communications	Dave Johnson, M.A.
Assistant Director, Public Affairs	Joe Gutierrez, B.A.
Associate Vice President, University Development	Beth Brenner, M.A.
Senior Director for Corporate and Foundation Relations & Major Gifts Officer, College of Business and Public Administration	Kimberly Alexander, M.P.A.
Director, Development for Athletics	Christina Gordon, M.B.A.
Director, Development for College of Arts and Letters	Julie Nichols, B.A.
Director, Development for College of Education	Richonette "Ricki" McManuis, B.S.
Director of Development for College of Natural Sciences	Duke Graham, M.S.
Director, Development for College of Social and Behavioral Sciences	Brent Hunter, M.A.
Director, Development for Palm Desert Campus	Susan Knollenberg, B.A.
Executive Director, Special Events & Guest Services	Carol Dixon, M.B.A.
Director, Alumni Affairs	Doreen Hatcher, M.A.
Director, Annual Giving and Alumni Development	Terri Carlos, B.A.
Senior Director, Prospect Strategy	Norelia Huerta
Director, Advancement Services	Vacant

# Palm Desert Campus (PDC)

---

**TELEPHONE:** 760-341-2883

**WEBSITE:** Palm Desert Campus Bulletin website (<http://PDC.CSUSB.EDU>)

## Administration

Dean: Sharon Brown-Welty, Ph.D.

[sharonb@csusb.edu](mailto:sharonb@csusb.edu)

Associate Dean: Doris Wilson, Ed.D.

[dwilson@csusb.edu](mailto:dwilson@csusb.edu)

Assistant Dean: David F. Maynard, Ph.D.

[dmaynard@csusb.edu](mailto:dmaynard@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 thirty 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.

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

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.

## Facilities

The CSUSB Palm Desert Campus is located on a 166-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](mailto:bmachuca@csusb.edu)

Transfer Students from College of the Desert, please contact Crystal Rodriguez, M.S.

760-341-2883 ext. 78146, [crrodrig@csusb.edu](mailto:crrodrig@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](mailto: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

**H.N. and Frances Berger Scholarship** awards five \$5,000 scholarships to Palm Desert Campus students who are studying allied health, including nursing, nutrition, kinesiology or education.

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 administered by the CSUSB Financial Aid Office available for PDC students that are . They can be applied for on-line at Financial Aid website (<https://finaid.csusb.edu>) beginning January 1<sup>st</sup> through March 2<sup>nd</sup> 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/osherLL>) 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

BA in Administration: Management Concentration (p. 366)

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

Advisor: Cynthia Schreihans

760-341-2883 ext. 78151, [cschreih@csusb.edu](mailto:cschreih@csusb.edu)

BA in Administration: Accounting Concentration (p. 361)

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

Advisor: Dr. Richard Lillie

760-341-2883 ext. 78158, [rillie@csusb.edu](mailto:rillie@csusb.edu)

BA in Administration: Marketing Concentration (p. 367)

Business Administration: Marketing (p. 367)

Advisor: Dr. Eric Newman

760-341-2883 ext. 78241, [enewman@csusb.edu](mailto:enewman@csusb.edu)

BA in Communication (p. 212)

Communication ([http://pdc.csusb.edu/communication\\_studies.html](http://pdc.csusb.edu/communication_studies.html))

Advisor: Dr. Robert Leo

760-341-2883 ext. 78148, [rleo@csusb.edu](mailto:rleo@csusb.edu)

BA in Criminal Justice (p. 700)

Criminal Justice ([http://pdc.csusb.edu/criminal\\_justice.html](http://pdc.csusb.edu/criminal_justice.html))

Advisor: Ruth Howell

760-341-2883 ext. 78110, [rhowell@csusb.edu](mailto:rhowell@csusb.edu)

BA in English (p. 236)

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

Advisor: David Marshall

760-341-2883 ext. 78137, [dmarshall@csusb.edu](mailto:dmarshall@csusb.edu)

BA in History (p. 728)

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

Advisor: Ruth Howell

760-341-2883 ext. 78110, [rhowell@csusb.edu](mailto:rhowell@csusb.edu)

BA in Liberal Studies, Integrated Track (p. 347)

Liberal Studies ([http://pdc.csusb.edu/liberal\\_studies.html](http://pdc.csusb.edu/liberal_studies.html))

Advisor: Katherine Thomerson

909-537-3865, [kthomers@csusb.edu](mailto:kthomers@csusb.edu)

BS in Nutrition & Food Sciences (p. 598)

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

Advisor: Dr. Dorothy Chen-Maynard

909-537-5340, [dchen@csusb.edu](mailto:dchen@csusb.edu)

BA in Psychology (p. 762)

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

Advisor: Robert Cupp

760-341-2883 ext. 78149, [rcupp@csusb.edu](mailto:rcupp@csusb.edu)

## 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](mailto:rhowell@csusb.edu)

BA in Graphic Design & Marketing (p. 195)

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

Advisor: Cynthia Schreihans

760-341-2883 ext. 78151, [cschreih@csusb.edu](mailto:cschreih@csusb.edu)

BA in Administration: Management Concentration (p. 366)

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

Advisor: Dr. Richard Lillie

760-341-2883 ext. 78158, [rillie@csusb.edu](mailto:rillie@csusb.edu)

BA in Administration: Accounting Concentration (p. 361)

Business Administration: Marketing

Advisor: Dr. Eric Newman

760-341-2883 ext. 78241, [enewman@csusb.edu](mailto:enewman@csusb.edu)

BA in Administration: Marketing Concentration (p. 367)

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

Advisor: Sid Burks

760-341-2883 ext. 75679, [sburks@csusb.edu](mailto:sburks@csusb.edu)

BA in Career & Technical Studies (p. 437)

BS in Career & Technical Studies (p. 436)

Communication ([http://pdc.csusb.edu/communication\\_studies.html](http://pdc.csusb.edu/communication_studies.html))

Advisor: Dr. Robert Leo

760-341-2883 ext. 78148, [rleo@csusb.edu](mailto:rleo@csusb.edu)

BA in Communication (p. 212)

Criminal Justice ([http://pdc.csusb.edu/criminal\\_justice.html](http://pdc.csusb.edu/criminal_justice.html))

Advisor: Ruth Howell

760-341-2883 ext. 78110, [rhowell@csusb.edu](mailto:rhowell@csusb.edu)

BA in Criminal Justice (p. 700)

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

Advisor: Dr. Chad Luck

760-341-2883 ext. 78137, [cluck@csusb.edu](mailto:cluck@csusb.edu)

BA in English (p. 236)

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

Advisor: Ruth Howell

760-341-2883 ext. 78110, [rhowell@csusb.edu](mailto:rhowell@csusb.edu)

BA in History (p. 728)

Liberal Studies ([http://pdc.csusb.edu/liberal\\_studies.html](http://pdc.csusb.edu/liberal_studies.html))

Advisor: Katherine Thomerson

909-537-3865, [kthomers@csusb.edu](mailto:kthomers@csusb.edu)

BA in Liberal Studies, Integrated Track (p. 347)

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

Advisor: Nancy Wolf

760-341-2883 ext. 78127, [nwolf@csusb.edu](mailto:nwolf@csusb.edu)

Bachelors of Science in Nursing (BSN) (p. 641)

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

Advisor: Dr. Dorothy Chen-Maynard

909-537-5340, [dchen@csusb.edu](mailto:dchen@csusb.edu)

BS in Nutrition & Food Sciences (p. 598)

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

Advisor: Robert Cupp

760-341-2883 ext. 78149, [rcupp@csusb.edu](mailto:rcupp@csusb.edu)

BA in Psychology (p. 762)

## Credential Programs in Education

- Administration Services (<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](http://pdc.csusb.edu/multiple_subject_credential_program.html))
- Pupil Personnel Services: School Counseling (<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](http://pdc.csusb.edu/single_subject_credential_program.html))

## **Certificate Programs**

- e-learning (<http://pdc.csusb.edu/eLearning.html>)
- Math Subject Matter Authorization (<http://pdc.csusb.edu/mathAuthorizationCred.html>)
- Reading and Language Arts (<http://bulletin.csusb.edu/colleges-schools-departments/education/reading-language-arts-certificate>)

## **Masters Programs**

- Accountancy 3:2 (<http://pdc.csusb.edu/accountancy.html>)
- Business Administration (<http://bulletin.csusb.edu/colleges-schools-departments/business-public-administration/mba>)
- 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 in Education (<http://pdc.csusb.edu/instructionalTechnology.html>)
- Math & Science Education (<http://coe.csusb.edu/programs/mathScienceEd>)
- Public Administration (<http://socialwork.csusb.edu/majorsprograms/pdep>)
- Reading/Language Arts (<http://pdc.csusb.edu/readingLanguageArts.html>)
- Social Work (<http://socialwork.csusb.edu/majorsprograms/pdep>)
- Teaching English to Speakers of other Languages (TESOL) (<http://pdc.csusb.edu/tesolMA.html>)

## **Doctoral Program**

- Educational Leadership (Ed.D.) (<http://coe.csusb.edu/programs/edDedLeadership>)

## **Palm Desert Campus General Advising**

### **First and Second Year Advisor**

Avisinia Rodriguez, M.A.

760-341-2883 ext. 78253, [arodrigu@csusb.edu](mailto:arodrigu@csusb.edu)

### **Upper Division & Transfer Advisor**

Ruth Howell

760-341-2883 ext. 78110, [rhowell@csusb.edu](mailto: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 2015

May 21-June 12	Fall Quarter 2015 Priority Registration
Sept. 7	Labor Day Holiday, university and library closed
Sept. 9	Admission Day, university open (observed 12/30/2015)
Sept 16	Beginning of academic year
Sept. 23	Last day to withdraw from all classes and receive 100% refund
Sept. 24	Classes begin (Saturday classes begin Sept. 26)
Sept. 30	Last day to add classes via My Coyote Self-Service
Oct. 12	Columbus Day, university open (observed 12/31/2015)
Oct. 14	CENSUS: Last day to drop classes without record
Oct. 26	Winter Quarter 2016 Advising begins
Nov. 2	Last day to file or refile graduation check for Spring 2016 graduation without payment of late fee
Nov. 2-24	Winter Quarter 2016 Priority Registration
Nov. 11	Veteran's Day Holiday, university and library closed
Nov. 26-29	Thanksgiving recess, university and library closed
Dec. 7	Last day of classes (Saturday classes end Dec. 5)
Dec. 8-12	Final examinations
Dec. 12	Commencement
Dec. 16	Grades due; end of term
Dec. 25-Jan. 3	Academic recess, campus closed

## Winter Term 2016

Nov. 2-24, 2015	Winter Quarter 2016 Priority Registration
Jan. 4	Last day to file or refile graduation check for Summer 2016 graduation without payment of late fee
Jan. 8	Last day to withdraw from all classes and receive 100% refund
Jan. 11	Classes begin (Saturday classes begin Jan. 9)
Jan. 15	Last day to add classes via My Coyote Self-Service
Jan. 16-18	Martin Luther King, Jr. Holiday, university and library closed
Feb. 1	CENSUS: Last day to drop classes without record
Feb. 1	Last day to file or refile graduation check for Fall 2016 graduation without payment of late fee
Feb. 12	Lincoln's Birthday, university open (observed 12/27/2015)
Feb. 15-Mar. 7	Spring Quarter 2016 Priority Registration
Feb. 22	Washington's Birthday, university open (observed 12/28/2015)
March 21	Last day of classes (Saturday classes end March 19)
March 22-26	Final examinations
March 29	Grades due; end of term
March 28-April 1	Academic recess
March 31	Cesar Chavez Holiday, university and library closed

## Spring Term 2016

Feb. 15-March 7	Spring Quarter 2016 Priority Registration
April 1	Last day to withdraw from all classes and receive 100% refund
April 4	Classes begin (Saturday classes begin April 2)
April 8	Last day to add classes via My Coyote Self-Service
April 22	CENSUS: Last day to drop classes without record
May 2	Last day to file or refile graduation check for Winter 2017 graduation without payment of late fee
May 9-25	Summer Quarter 2016 Priority Registration
May 26- June 13	Fall Quarter 2016 Priority Registration
May 28-30	Memorial Day Holiday, university and library closed
June 13	Last day of classes (Saturday classes end June 11)
June 14-18	Final examinations
June 18	Commencement
June 21	Grades due; end of term

## Summer Term 2016

May 9-25	Summer Quarter 2016 Priority Registration
June 21	Last day for full refund, Sessions Regular and 6W1
June 22	Classes begin, Sessions Regular and 6W1
June 24-Sept. 11	Campus closed each Friday, Saturday, and Sunday
June 23	Last day to add via MyCoyote, 6W1
June 28	Last day to add via MyCoyote, Session Regular
June 30	CENSUS: last day to drop classes without record, Session 6W1
July 4	Independence Day Holiday, university and library closed
July 13	CENSUS: Last day to drop classes without record, Session Regular
July 26	Last day of TR classes, Session 6W1
July 27	Last day of MTWR and MW classes, Session 6W1
July 28, Aug 1	Final examinations, Session 6W1
Aug. 1	Last day for full refund, Session 6W2
Aug. 2	Classes begin, Session 6W2
Aug. 3	Grades due, Session 6W1
Aug. 3	Last day to add via MyCoyote, Session 6W2
Aug. 10	CENSUS: Last to drop classes without record, Session 6W2
Aug. 24	Last day of W classes, Session Regular
Aug. 25	Last day of R classes, Session Regular
Aug. 29	Last Day of M classes, Session Regular (9 meetings, no makeup)
Aug. 30	Last Day TR and T classes, Session Regular
Aug. 31	Last day of MTWR and MW classes, Session Regular
Aug. 31	Last day of MW classes, Session 6W2 (9 meetings, no makeup)
Sept. 1, 6	Final examinations, Session Regular
Sept. 1	Last day of TR classes, Session 6W2
Sept. 5	Labor Day Holiday, university and library closed
Sept. 6	Last day of MTWR classes, Session 6W2

Sept. 7-8	Final examinations, Session 6W2
Sept. 13	Grades due, Sessions Regular and 6W2; end of term

## Fall Term 2016

May 26-June 17	Fall Quarter 2016 Priority Registration
Sept. 5	Labor Day Holiday, university and library closed
Sept. 14	Beginning of academic year
Sept. 21	Last day to withdraw from all classes and receive 100% refund
Sept. 22	Classes begin (Saturday classes begin Sept. 24)
Sept. 28	Last day to add classes via My Coyote Self-Service
Oct. 10	Columbus Day, university open (observed 12/31/2016)
Oct. 12	CENSUS: Last day to drop classes without record
Oct. 24	Winter Quarter 2017 Advising begins
Oct. 31-Nov. 22	Winter Quarter 2017 Priority Registration
Nov. 1	Last day to file or refile graduation check for Spring 2016 graduation without payment of late fee
Nov. 11	Veteran's Day Holiday, university and library closed
Nov. 25-27	Thanksgiving recess, university and library closed
Dec. 5	Last day of classes (Saturday classes end Dec. 3)
Dec. 6-10	Final examinations
Dec. 10	Commencement
Dec. 13	Grades due; end of term
Dec. 24-Jan. 2	Academic recess, campus closed

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.

Terms	Applications first accepted	Initial Filing Period
Summer quarter 2015	Feb. 1, 2015	February 1-28, 2015
Fall quarter 2015	Oct. 1, 2014	Oct. 1-Nov. 30, 2014
Winter quarter 2016	June 1, 2015	June 1-30, 2015
Spring quarter 2016	Aug. 1, 2015	August 1-31, 2015

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>)

filing\_status/Default.asp) and Admissions & Student Recruitment (<http://admissions.csusb.edu>).

## Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus which they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus' specified supplementary admission criteria if applying to an impacted program or campus.

The CSU will announce those campuses or programs that are impacted during the fall filing period. Detailed information on campus and programs 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>)
- CSU (<http://www.calstate.edu/sas/impaction-campus-info.shtml>) Impacted Campus Status (<http://www.calstate.edu/sas/impaction-campus-info.shtml>)

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

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

GPA	ACT Score	SAT Score
3.0 and above qualifies with any score		
2.99	10	510
2.98	10	520
2.97	10	530
2.96	11	540
2.95	11	540
2.94	11	550

2.93	11	560
2.92	11	570
2.91	12	580
2.90	12	580
2.89	12	590
2.88	12	600
2.86	13	620
2.85	13	620
2.84	13	630
2.83	13	640
2.82	13	650
2.81	14	660
2.80	14	660
2.79	14	670
2.78	14	680
2.77	14	690
2.76	15	700
2.75	15	700
2.74	15	710
2.73	15	720
2.72	15	730
2.71	16	740
2.70	16	740
2.69	16	750
2.68	16	760
2.67	1	780
2.65	17	780
2.64	17	790
2.63	17	800
2.62	17	810
2.61	18	820
2.60	18	820
2.59	18	830
2.58	18	840
2.57	18	850
2.56	19	860
2.55	19	860
2.54	19	870
2.53	19	880
2.52	19	890
2.51	20	900
2.50	20	900
2.49	20	910
2.48	20	920
2.47	20	930
2.45	21	940
2.44	21	950
2.43	21	960
2.42	21	970
2.41	22	980
2.40	22	980
2.39	22	990

2.38	22	1000
2.37	22	1010
2.36	23	1020
2.35	23	1020
2.34	23	1030
2.33	23	1040
2.32	23	1050
2.31	24	1060
2.30	24	1060
2.29	24	1070
2.28	24	1080
2.27	24	1090
2.26	25	1100
2.24	25	1110
2.23	25	1120
2.22	25	1130
2.21	26	1140
2.20	26	1140
2.19	26	1150
2.18	26	1160
2.17	26	1170
2.16	27	1180
2.15	27	1180
2.14	27	1190
2.13	27	1200
2.12	27	1210
2.11	28	1220
2.10	28	1220
2.09	28	1230
2.08	28	1240
2.07	28	1250
2.06	29	1260
2.05	29	1260
2.03	29	1280
2.02	29	1290
2.01	30	1300
2.00	30	1300

Below 2.00 does not qualify for regular admission

## 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") 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 to 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 cumulative 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.

- 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:

- They have a cumulative grade point average of at least 2.0 (C) or higher in all transferable units attempted; and
- They are in good standing at the last college or university attended; and
- 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.
  - 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. It is the responsibility of the student who has earned an AA-S/AS-T to provide documentation of the degree to the CSU campus.

## **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:

- Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development or California High School Proficiency Examination);
- Has not been enrolled in college as a full-time student for more than one term during the past five years;
- 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](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:

	Internet	Paper
Undergraduate	61	500
Graduate	80	550

## 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 the Registrar. 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 the Registrar (<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. 102).)

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:

Petition for	Petition on file on or before
Fall	July 1
Winter	December 1
Spring	March 1
Summer	June 1

## Transfer of Credit

A maximum of 70 transferable semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the university. No upper-division credit will be allowed 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 the Registrar 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. 102).

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 the Registrar (<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 the Registrar (<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 the Registrar (<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 the Office of the Registrar, (909) 537-3211.

## 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 or desired programs or admission categories are closed. 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 the Registrar (<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 in (and complete) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB. Credit earned at the host campus is reported to the home campus to be included on the student's transcript at the home campus.

**CSU Intrasystem Visitor Enrollment.** Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus. Students attending CSUSB on I-20 visas are not eligible for this program.

**Intersystem Cross Enrollment.** Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC or community college and request that a transcript of record be sent to the home campus. Students attending CSUSB on I-20 visas are not eligible to attend community college. They may participate in this program and attend a CSU or UC, but must be concurrently enrolled in (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 in (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 independence. Financial independence is required, along with physical presence and intent, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made and in any of the three calendar years preceding the reclassification application the student:

- has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent;

- has not and will not receive more than seven hundred and fifty dollars (\$750) per year in financial assistance from his/her parent; and
- has not lived and will not live longer than six (6) weeks in the home of his/her parent.

A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement.

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 or more years of high school in California and graduated from a California high school or attained the equivalent of graduation. 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 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:

Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1

CalState TEACH operates on a trimester system. The residence determination dates for CalState TEACH are as follows:

Fall	September 20
Spring	January 5
Summer	June 1

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](mailto:areed@csusb.edu).

## 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>)

## Campus Tours

Office of Admissions and Student Recruitment  
 (909) 537-5188 [tours@csusb.edu](mailto: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 for graduate study, 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 each. 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. The General Education program is explained elsewhere in this catalog, and all the courses that comprise the General Education program are 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. This catalog also contains the program requirements and course descriptions required of baccalaureate degrees, minors, certificates, and credentials with appropriate contact information at the beginning of each section.

## Undergraduate Studies

### FOUR-YEAR GRADUATION PLEDGE PROGRAM

Advising and Academic Services, (909) 537-5959.

GraduateN4@csusb.edu

California State University, San Bernardino is committed to assisting students in earning a baccalaureate degree in the shortest time possible. With careful planning and a commitment to work diligently, many students have been able to graduate in four years (*12 quarters*).

#### Who is Eligible?

All ENTERING FRESHMEN who: [Apply & qualify before Fall Census Date]

- Have declared a major (*and concentration if applicable*)
- Are willing to earn **45 units** or more per **academic year** (degree applicable)

NOTE: Majors that require more than 180 units will need to earn more units per year.

- Have no academic basic skills deficiencies. ***Students who are not eligible to take college-level math (Math 110 or higher) during their first term at CSUSB, and students taking the three-quarter English course sequence are not eligible.***
- Have met all entrance requirements for the major

#### STUDENT'S OBLIGATION Once Accepted Into the Program:

Students are required to attend an information session where they will sign their Four Year Graduation Pledge Contract.

1. Students **may not** have more than one major declared (unless approved by the Dean of Undergraduate Studies), as having multiple majors and/or minors will increase the amount of units required and may result in not meeting the four-year graduation deadline.
2. Students must COMPLETE an average of at least 15 units per quarter (45 units per year) to reach the minimum of 180 units required for a Bachelor of Arts degree in four years.
3. Students are required to submit an Education Plan within their first academic year to plan and track their degree coursework and requirements. Education Plans MUST be approved and signed by either a faculty advisor or professional staff advisor (cannot be a peer advisor) within the student's major/department.
4. Students must enroll each quarter at the assigned on-line registration time. Students enrolling late cannot be assured of getting courses needed.
5. Make ABOVE AVERAGE academic progress by maintaining a 2.7 CSUSB grade point average after each quarter (For students beginning Fall 2015 or later). *Impacted majors may require a higher grade point average.*
6. Meet regularly with their department academic advisor, follow the agreed upon Education Plan each quarter. Impacted majors must be accepted into their major according to the department's established schedule.
7. 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 may

not necessarily be able to graduate in four years. A new, advisor-approved, Education Plan demonstrating four-year graduation MUST be submitted to Advising & Academic Services within 30 days after a Change of Major is filed.

8. Demonstrate accountability by complying with all administrative and academic policies and procedures. Non-compliance will result in cancellation of the pledge agreement.
9. Students MUST file their Graduate Check by the Fall term of their 4<sup>th</sup> and final academic year.

#### **What is the University's Pledge?**

- California State University, San Bernardino pledges to provide sufficient classes for the Four-Year Graduation Pledge Program students in order for them to graduate in four years. All Four-Year Graduation Pledge Program students will receive first priority registration (Priority I) based on their quarterly academic progress monitored by Advising & Academic Services, Undergraduate Studies. (909) 537-5959. GraduateN4@csusb.edu

Participants who continue to meet eligibility (see above) must utilize their designated high priority registration date and time to ensure timely advancement toward graduation. After four academic years of full time enrollment, meeting conditions outlined in the four year graduation pledge contract, if it is determined that required courses were not available, the student will not be required to pay tuition or fees otherwise required for the student to register and subsequently enroll in courses necessary for graduation. This is the sole remedy for the university's breach of the Four Year Graduation Pledge.

## **Advising and Academic Services**

University Hall, Room 380  
(909) 537-5034 Undergraduate Advising & Academic Services website (<http://www-ugs.csusb.edu/advising>)  
askcsusb@csusb.edu (askcsusb@mail.csusb.edu) (for advising questions)

The Advising and Academic Services Office offers proactive leadership and guidance to foster holistic, strengths-based student development focused advising. Services include:

- Academic Probation and Subject to Dismissal Counseling
- Undeclared and General Education Advising
- Excessive Unit (Senior) Advising
- EPT/ELM, Basic Skills and Remediation Compliance
- Coordination of SOAR Advising and Registration
- Student Success Peer Advisors (SSPA)
- Dianna J. Pelletier Resiliency Scholarship Fund for students on probation
- 4-Year Graduation Pledge Program
- USTD 200, USTD 37, USTD 27B
- Coyote Advising Week
- Finals Encouragement Week
- Undergraduate University Petitions (Leave of Absence, Withdrawal Petition for Extenuating Circumstances, GE Course Substitution, Simultaneous Enrollment).
- Student Academic Grade Grievance (Grade Appeals) –University Level

The office reviews and acts on the following petition requests: admission by special action, general education course substitutions, retroactive

withdrawals, extension of time to remove "Incomplete" grades beyond one year, leave of absence, academic renewal, simultaneous enrollment, drop after census date for undeclared students, and other waivers of university regulations.

In addition, the office provides general education and PAWS assistance for students, academic counseling for continuing probation and dismissed students, and supervision for USTD 27 (individualized study contract). Electronic Mail (e-mail) Advising is available for students, faculty, staff and the community for academically related inquiries. The CSUSB Advising Mobile App is available to download on your mobile phone.

## **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.

## **Faculty Student Mentoring Program**

Pfau Library, Room 208  
(909) 537-7765 Undergraduate Mentoring Program website (<http://www-ugs.csusb.edu/mentor>)

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](mailto: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. Priority is granted to eligible students who have a demonstrated academic need. (*Please contact the SAIL office for more information about eligibility.*)

SAIL offers a variety of supportive services to ensure students' academic and personal success at CSUSB and their persistence towards graduation. 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, science, 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 July 1 through September 30, and enrollment closes when the program reaches a total

of 400 new and returning students. After that time period, students are admitted on a space-available basis or through a letter of referral from a campus staff or faculty member, or administrator.

## 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 facilitate English conversation groups for multilingual and ESL students, helping them to negotiate the linguistic and cultural differences in oral and written composition.

The Writing Center Director and staff members are always available to 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:

- Complete a minimum of 180 quarter units of college credit. Some majors require more than 180 quarter units, particularly those with integrated teaching tracks.
- Complete 78-82 quarter units in general education distributed in the manner outlined in the following section titled General Education Program Requirements. Satisfactory score on the Entry Level Mathematics exam are prerequisites for enrollment in the following general education courses:
 

ENG 107	Advanced First-Year Composition (delete Eng 107)	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
- Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
- Complete at least 45 quarter units at this university. (Refer to University Residence Requirement for Graduation, below.)
- Complete at least 60 quarter units of upper-division work.
- Earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the major.
- Earn a grade point average of 2.0 ("C") or better in all units attempted, and in all units attempted at the university.
- 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.
- Complete the upper-division writing requirement. (See Upper-Division Writing Requirement (p. 47).)
- Complete the history, constitution and California government requirement. (See History, Constitution, Government Requirement (p. 47).)
- Be recommended for graduation by the faculty of the university.
- Have a graduation requirement check (grad check) on file prior to the end of the term of graduation. (See Graduation Requirement Check (p. 102).)

## 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.csusb.edu/earlystart>).

## Systemwide Placement Test Requirements

The CSU requires each entering undergraduate, except those who are exempt or conditionally exempt, 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 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 who are conditionally exempt in English but do not satisfy their conditions will also take part in the Directed Self-Placement process and may be required to participate in Early Start unless they demonstrated college readiness through achieving a high enough score on the EPT. Students placed in a developmental program in mathematics must complete all coursework 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 the 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.
- A score between 460-499 on the critical reading section of the College Board SAT and 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.
- A score of 22 or above on the American College Testing (ACT) English Test.
- A score between 19-21 on the American College Testing (ACT) English Test and 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.
- 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
- Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or better

- A score of "Exempt" or "Ready for college-level English courses" on the CSU Early Assessment Program (EAP) taken as part of the Smarter Balance Assessment in grade 11
- A score of "Conditionally Ready for college-level English courses" or "Conditional" on the CSU Early Assessment Program (EAP) taken as part of the Smarter Balance Assessment in 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 between 490-549 on the math/critical reasoning section of the College Board SAT and successful completion a senior year (4th) math course for which Algebra II is a prerequisite.
- 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 between 20-22 on the American College Testing (ACT) Mathematics Test and successful completion a senior year (4th) math course for which Algebra II is a prerequisite.
- 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 a college course that satisfies the requirement in Quantitative Reasoning, provided such a course was completed with a grade of C or better
- A score of "Exempt" or "Ready for college-level Mathematics courses" on the CSU Early Assessment Program (EAP) taken as part of the Smarter Balance Assessment in grade 11.
- A score of "Conditionally ready for college-level Mathematics courses" or "Conditional" on the CSU Early Assessment Program (EAP) taken as part of the Smarter Balance Assessment in grade 11 provided successful completion of a CSU-approved 12th grade math course that requires 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) 537-5035) or the campus Testing Office (University Hall, Room 368, (909) 537-5045).

## University Residence Requirement for Graduation

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

## Second Bachelor's Degree Requirements

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

1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement completed with a grade of "B" (3.0) or better;

3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 quarter units of residence work of which
  - a. 18 units must be in the second major,
  - b. 12 units must be in general education,
  - c. 36 units must be at the upper-division level;
 Students who hold a bachelor's degree from any campus within the CSU or UC systems are held to specific general education requirements to be taken in residency at CSUSB. For more information, contact the Office of the Registrar 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. 86) 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)

HON 104A	Language and Meaning: Critical Thinking	4
HON 104B	Language and Meaning: Introduction to Philosophy	4
HON 104C	Language and Meaning: Oral Communication	4
HON 105A	Honors Colloquium	1
HON 105B	Honors Colloquium	1
HON 105C	Honors Colloquium	1
HON 205A	Honors Seminar	1
HON 205B	Honors Seminar	1
HON 205C	Honors Seminar	1
A senior project in a department		4
Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.		16

#### Requirements for students who enter the Honors Program as sophomores (23)

HON 205A	Honors Seminar	1
HON 205B	Honors Seminar	1
HON 205C	Honors Seminar	1
A senior project in a department		4
Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.		16

#### Requirements for students who enter the Honors Program as juniors (11)

HON 205A	Honors Seminar	1
HON 205B	Honors Seminar	1
HON 205C	Honors Seminar	1
Eight additional upper-division units chosen from honors-designated courses.		8

The information on this pdf will soon be out of date. The program Honors program is under review and will be changing following revisions. Students should refer to the online Bulletin of Courses for updated/current information.

# General Education Program

## Requirements (78-86 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. Also, students who do not complete the Multicultural/Gender Requirement with one of the listed capstone courses (GE-G1) must take one of the courses listed in area GE-G2 for an additional four units.

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

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

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

## Requirements for General Education Program

### A. Basic Skills Category (12)

#### 1. Written Communication

Four units chosen from: 4

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	
Four units chosen from: 4	
COMM 120	Oral Communication
HON 104C	Language and Meaning: Oral Communication *
3. Mathematics	
One course listed in the mathematics section of the natural sciences breadth area (category B1)	
4. Critical Thinking	
Four units chosen from the following: 4	
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
Total Units 12	

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

### B. Natural Sciences Breadth Area (20)

#### 1. Mathematics

Four units chosen from: 4

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

#### 2. Life Sciences

Five units chosen from: 5

BIOL 100	Topics in Biology
BIOL 202	Biology of Populations
HSCI 120	Health and Society: An Ecological Approach

#### 3. Physical Sciences

A minimum of five units chosen from: 5

ASTR 103	Descriptive Astronomy
CHEM 100	Chemistry in the Modern World
CHEM 205	Fundamentals of Chemistry I: General Chemistry
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding
GEOG 103	Physical Geography
GEOL 101	Introductory Geology
PHYS 100	Physics in the Modern World
PHYS 121	Basic Concepts of Physics I
PHYS 221	General Physics I

#### 4. Special Topics in Science and Technology

Two units chosen from: 2

BIOL 216	Genetics and Society
----------	----------------------



BIOL 217	Biology of Sexually Transmitted Diseases	
CHEM 105	Chemicals in Our Environment	
CSE 122	Bioinformatics	
CSE 129	Science, Computing and Society	
CSE 208	Introduction to Computer Engineering Design	
GEOL 205	Volcanic Hazards, Surveillance and Prediction	
GEOL 210	Earthquakes: Science and Public Policy	
5. Integrative Capstone in the Natural Sciences		
Four units chosen from:		4
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	
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:		4
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:		4
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:		4
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:		4
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:		4

HUM 319	Myth, Metaphor and Symbol
HUM 325	Perspectives on Gender (also counts in category G1) ***
HUM 328	Asian Cultural Traditions (also counts in category G1)
HUM 330	Arts and Ideas
HUM 335	The Origin and Contemporary Role of Latino Culture (also counts in category G1)
HUM 340	Interpretation and Values
HUM 344	Ideas in American Culture
HUM 350	The Cultures of American Childhood (also counts in category G1)
HUM 370	African Heritage in the Arts (also counts in category G1)
HUM 375	The World of Islam (also counts in category G1)
HUM 380	Comparative Studies in the Arts: East and West (also counts in category G1)
HUM 385	A Cultural History of Fashion
<b>Total Units</b> 20	

\* 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 and must take four additional units from the Humanities Breadth Area (Category C) to meet the total number of General Education units required for graduation.

\*\* 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

#### D. Social and Behavioral Sciences Breadth Area (20)

##### 1. American History and Civilization \*

Four units chosen from:		4
HIST 146	American Civilization	
HIST 200	United States History to 1877	
HIST 201	United States History, 1877 to the Present	

##### 2. American Institutions \*

PSCI 203	American Government	4
----------	---------------------	---

##### 3. World Cultures

Four units chosen from:		4
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	
SSCI 165	Regions and Peoples of the World	

##### 4. Discipline Perspectives

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

##### 5. Integrative Capstone in the Social and Behavioral Sciences

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

**Total Units** 20

\* Note: The American history, constitution, state and California local government requirement may be met by taking PSCI 203 and one of the following: HIST 146 or HIST 200 or HIST 201. If this requirement is met by examination, then students still must complete 16 lower-division units in this breadth area.

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

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

##### 1. The Whole Person - Physical and Physiological Issues

KINE 205	Foundations for Lifetime Fitness and Wellness	2
----------	---	---

##### 2. The Whole Person - Social and Psychological Issues

Two units chosen from:		2
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:		2
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	4
---	---

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).	0
---	---

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 Cultures 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	4
----------	----------------------------------	---

ENG 306	Expository Writing for English	4
---------	--------------------------------	---

HON 306	Expository Writing for Honors (for students in the Honors Program)	4
---------	--	---

HUM 306	Expository Writing for the Humanities	4
---------	---------------------------------------	---

MGMT 306	Expository Writing for Administration	4
----------	---------------------------------------	---

NSCI 306	Expository Writing for the Natural Sciences	4
----------	---	---

SSCI 306	Expository Writing for the Social Sciences	4
----------	--	---

Prerequisites for 306 courses are: satisfaction of the written communication requirement (A1) and a minimum of 90 quarter (60 semester) units of college credits. (Note: these 306 courses were previously numbered 495.)

2. Satisfactory completion of the Writing Requirement Exemption Examination. No credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.	
---	--

Students normally shall complete the upper-division writing requirement by the end of the junior year. Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Office, University Hall, Room 368, (909) 537-5045. Contact the Office of the Associate Vice President of Undergraduate Studies, University Hall, Room 368, (909) 537-5032 for questions about the upper-division writing requirement itself.

**History, Constitution, Government Requirement**

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

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

HIST 146	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 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 the Registrar 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. 179)

### Department of Art

- Bachelor of Arts in Art - Plan I (Visual Studies) (p. 190)
- Bachelor of Arts in Art - Plan II (Studio Art) (p. 192)
- Bachelor of Arts in Art - Plan III (Art History) (p. 193)
- Bachelor of Arts in Art - Plan IV (Graphic Design) (p. 194)
- Bachelor of Arts in Art - Plan V (Graphic Design and Marketing) (p. 195)

### Department of Communication Studies

- Bachelor of Arts in Communication (p. 212)

### Department of English

- Bachelor of Arts in English (p. 236)

### Department of Music

- Bachelor of Arts in Music (p. 260)
- Bachelor of Music in Performance (p. 261)

### Department of Philosophy

- Bachelor of Arts in Philosophy (p. 270)

### Department of Theatre Arts

- Bachelor of Arts in Theatre Arts (p. 284)

### Department of World Languages and Literatures

- Bachelor of Arts in Arabic Language, Literature, and Culture (p. 324)
- Bachelor of Arts in French (p. 329)
- Bachelor of Arts in Spanish (p. 330)

### Liberal Studies Office

- Bachelor of Arts in Liberal Studies - Arts and Letters Track (Non-credential) (p. 342)
- Bachelor of Arts in Liberal Studies - General Track (Pre-Credential) (p. 343)
- Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential) (p. 347)
- Bachelor of Arts in Liberal Studies - Spanish Studies Track (p. 350)

### College of Business and Public Administration

- B.A. in Administration Accounting Concentration (p. 361)
- B.A. in Administration Entrepreneurial Management Concentration (p. 361)
- B.A. in Administration Finance Concentration (p. 362)
- B.A. in Administration Financial Planning Concentration (p. 363)
- B.A. in Administration Human Resource Management Concentration (p. 363)
- B.A. in Administration Information Systems and Technology Concentration (p. 364)
- B.A. in Administration International Business Concentration (p. 365)
- B.A. in Administration Management Concentration (p. 366)
- B.A. in Administration Marketing Concentration (p. 367)
- B.A. in Administration Public Administration Concentration (p. 368)
- B.A. in Administration Real Estate Concentration (p. 369)
- B.A. in Administration Sports and Entertainment Marketing (p. 369)
- B.A. in Administration Supply Chain and Transportation Management Concentration (p. 370)
- B.S. in Administration Cyber Security Concentration (p. 371)
- B.S. in Administration Information Systems and Technology Concentration (p. 371)

### Department of Information and Decision Sciences

- B.S. in Information Systems and Technology (p. 392)

## College of Education

### Department of Educational Leadership and Technology

- Bachelor of Arts in Career and Technical Studies (p. 437)
- Bachelor of Science in Career and Technical Studies (p. 436)

## College of Natural Sciences

### Department of Biology

- Bachelor of Arts in Biology (p. 548)
- Bachelor of Arts in Biology - Integrated Teaching Track (p. 548)
- Bachelor of Arts in Biology - Pre-Med Option (p. 549)
- Bachelor of Science in Bioinformatics (p. 550)
- Bachelor of Science in Biology (p. 551)
- Bachelor of Science in Biology - Ecology and Evolution Option (p. 551)
- Bachelor of Science in Biology - Pre-Med Option (p. 552)
- Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation (p. 553)

### Department of Chemistry and Biochemistry

- Bachelor of Arts in Chemistry - Biochemistry Option (p. 565)
- Bachelor of Arts in Chemistry - Chemistry Option (p. 566)
- Bachelor of Arts in Chemistry - Integrated Teaching Track (p. 566)
- Bachelor of Science in Bioinformatics (p. 550)
- Bachelor of Science in Chemistry - ACS Certified Option (p. 568)
- Bachelor of Science in Chemistry - Biochemistry Option (p. 568)

### Department of Geological Sciences

- Bachelor of Arts in Geology (p. 580)
- Bachelor of Arts in Geology - Integrated Teaching Track (p. 580)
- Bachelor of Science in Geology (p. 581)

### Department of Health Science and Human Ecology

- Bachelor of Science in Health Science (p. 597)
- Bachelor of Science in Nutrition and Food Sciences (p. 598)

### Department of Kinesiology

- Bachelor of Science in Kinesiology - Exercise Science (p. 613)
- Bachelor of Science in Kinesiology - Pedagogy (p. 613)
- Bachelor of Science in Kinesiology - Allied Health Professions (p. 612)

### Department of Mathematics

- Bachelor of Arts in Mathematics (p. 626)
- Bachelor of Arts in Mathematics - Teaching Track (p. 626)
- Bachelor of Science in Mathematics (p. 627)

### Department of Nursing

- Bachelor of Science in Nursing (p. 641)
- Bachelor of Science in Nursing - RN to BSN Bridge Program (p. 642)

## Department of Physics

- Bachelor of Arts in Physics (p. 650)
- Bachelor of Science in Physics (p. 650)
- Bachelor of Science in Physics - Applied Physics (p. 651)

## School of Computer Science and Engineering

- Bachelor of Arts in Computer Systems (p. 661)
- Bachelor of Science in Bioinformatics (p. 550)
- Bachelor of Science in Computer Engineering (p. 662)
- Bachelor of Science in Computer Science (p. 662)

## College of Social and Behavioral Sciences

- Bachelor of Arts in Social Sciences - Credential Track (p. 673)
- Bachelor of Arts in Social Sciences - Multidisciplinary Track (p. 674)

### Department of Anthropology

- Bachelor of Arts in Anthropology (p. 688)

### Department of Criminal Justice

- Bachelor of Arts in Criminal Justice (p. 700)
- Bachelor of Arts in Criminal Justice - Crime Analysis Option (p. 701)

### Department of Economics

- Bachelor of Arts in Economics (p. 708)
- Bachelor of Arts in Economics - Applied Economics (p. 709)
- Bachelor of Arts in Economics - Mathematical Economics (p. 709)
- Bachelor of Arts in Economics - Political Economy (p. 710)

### Department of Geography and Environmental Studies

- Bachelor of Arts in Environmental Studies (p. 717)
- Bachelor of Arts in Geography - Geography Option (p. 719)
- Bachelor of Arts in Geography - Global Studies Option (p. 719)

### Department of History

- Bachelor of Arts in History (p. 728)

### Department of Political Science

- Bachelor of Arts in Political Science (p. 738)

### Department of Psychology

- Bachelor of Arts in Human Development - Child Development Track (p. 757)
- Bachelor of Arts in Human Development - Lifespan Track (p. 758)
- Bachelor of Arts in Human Development - School Age Track (p. 759)
- Bachelor of Arts in Psychology (p. 762)
- Bachelor of Arts in Psychology - Industrial and Organizational Psychology Concentration, BA (p. 763)
- Bachelor of Arts in Psychology - Biological Psychology (p. 764)

### Department of Social Work

- Bachelor of Arts in Social Work (p. 793)

## Department of Sociology

- Bachelor of Arts in Sociology - Social Services Track (p. 775)
- Bachelor of Arts in Sociology (p. 774)

## Interdisciplinary Studies

- Bachelor of Arts with Special Major (p. 796)

## 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. 413)

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

### Anthropology Minor (p. 692)

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

### Applied Physics Minor (p. 651)

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

### Arabic Minor (p. 339)

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

### Art History Minor (p. 199)

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

### Asian Studies Minor (p. 218)

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

### Biology Minor (p. 556)

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. 413)

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

### Career and Technical Education Minor (p. 447)

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

### Chemistry Minor (p. 571)

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

### Chicano(a)/Latino(a) Studies, Ethnic Studies Minor (p. 787)

College of Social and Behavioral Sciences, SB-207, (909) 537-7500.

### Communication Minor (p. 219)

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

### Computer Science Minor (p. 665)

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

### Criminal Justice Minor (p. 704)

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

### Economics Minor (p. 710)

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

### Education Minor (p. 520)

Department of Teacher Education and Foundations, CE-261, (909) 537-7405.

### English Minor (p. 244)

Department of English, UH-334, (909) 537-5824.

### Entrepreneurship Minor (p. 413)

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

### Environmental Studies Minor (p. 720)

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

### Ethnic Studies Minor (p. 785)

College of Social and Behavioral Sciences, SB-207, (909) 537-7500.

### Film Studies Minor (p. 220)

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

### Finance Minor (p. 413)

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

### French Minor (p. 340)

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

### Gender and Sexuality Studies Minor (p. 521)

Department of Teacher Education and Foundations, CE-261, (909) 537-7405.

**Geography Minor** (p. 721)

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

**Geography - Global Studies Minor** (p. 721)

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

**Geology Minor** (p. 582)

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

**German Minor** (p. 340)

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

**Graphic Design-Print Minor** (p. 199)

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

**Graphic Design-Web Minor** (p. 199)

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

**Health Science Minor** (p. 601)

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

**History Minor** (p. 731)

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

**Human Resources Management Minor** (p. 414)

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

**Information Systems and Technology Minor** (p. 414)

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

**Intercultural Communication Minor** (p. 220)

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

**International Business Minor** (p. 414)

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

**Islamic and Middle Eastern Studies Minor** (p. 787)

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

**Japanese Minor** (p. 341)

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

**Jazz Studies Minor** (p. 264)

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

**Kinesiology Minor** (p. 615)

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

**Latin American Studies Minor** (p. 353)

College of Arts and Letters, UH-201.44, (909) 537-5858.

**Law and Philosophy Minor** (p. 271)

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

**Management Minor** (p. 414)

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

**Marketing Minor** (p. 415)

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

**Mathematics Minor** (p. 631)

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

**Music Minor** (p. 264)

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

**Nutrition and Food Sciences Minor** (p. 601)

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

**Philosophical Logic Minor** (p. 271)

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

**Philosophy Minor** (p. 272)

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

**Philosophy, Policy, and Economics Minor** (p. 272)

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.

**Physics Minor** (p. 651)

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

**Political Economy Minor** (p. 711)

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

**Political Science Minor** (p. 739)

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

**Pre-Law Minor** (p. 739)

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

**Psychology Minor** (p. 770)

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

**Public Administration Minor** (p. 415)

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

**Public Relations Minor** (p. 220)

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

**Real Estate Minor** (p. 415)

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

**Recording Arts Minor** (p. 264)

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

**Recreation Minor** (p. 616)

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

**Script Writing Minor** (p. 221)

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

**Sociology Minor** (p. 776)

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

**Spanish Minor** (p. 341)

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

**Sports and Entertainment Marketing Minor** (p. 415)

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

**Studio Art Minor** (p. 199)

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

**Supply Chain Management Minor** (p. 415)

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

**Theatre Arts Minor** (p. 287)

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

## 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. 372)

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

### Applied Cultural Anthropology Certificate (p. 689)

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

### Arabic Certificate (p. 333)

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

### Archaeology Certificate (p. 689)

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

### Asian Studies Certificate (p. 214)

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

### Bilingual/Cross-Cultural Studies: Spanish/English Certificate (p. 334)

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

### Biotechnology Certificate (p. 556)

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

### Business Skills for the Artist Certificate (p. 195)

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

### California Indian Languages and Cultures Certificate (p. 334)

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

### Career and Technical Education Certificate (p. 437)

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

### Coaching Certificate (p. 614)

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

### Communication Skills Certificate (p. 215)

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



**Computer Systems and Programming Certificate (p. 665)**

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

**Criminal Justice Certificate (p. 702)**

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

**Cyber Security Certificate (p. 372)**

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

**Education Certificate (p. 503)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Fitness Management Certificate (p. 615)**

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

**French/English Translation Certificate (p. 335)**

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

**Gender and Sexuality Studies Certificate (p. 504)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Geographic Information Systems Certificate (p. 720)**

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

**German/English Translators Certificate (p. 332)**

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

**Gerontology Certificate (p. 601)**

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

**Health Care Management Certificate (p. 602)**

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

**Healthcare Spanish, Certificate (p. 337)**

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

**Information Systems Management Certificate (p. 373)**

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

**International Relations Certificate (p. 739)**

Department of Political Science, SB-112, (909) 537-5535/5534.

**Introductory Actuarial Science Certificate (p. 632)**

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

**Introductory Mathematics Certificate (p. 632)**

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

**Islamic and Middle Eastern Studies Certificate (p. 679)**

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

**Japanese Language and Culture Certificate (p. 336)**

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

**Latin American Studies Certificate (p. 690)**

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

**Museum Studies Certificate (p. 690)**

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

**Native Nations/Indigenous People Certificate (p. 680)**

College of Social and Behavioral Sciences, SB-207, (909) 537-7500

**Puppetry Certificate (p. 285)**

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

**Recreation Leadership Certificate (p. 615)**

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

**Social Services Certificate (p. 776)**

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

**Spanish for Public Services Certificate (p. 337)**

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

**Supply Chain Management Certificate (p. 373)**

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

**Theatre for Youth Certificate (p. 286)**

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

**Urban Planning Certificate (p. 720)**

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

**Writing: Creative Writing Certificate (p. 238)**

Department of English, UH-334, (909) 537-5824.

**Writing: Professional Writing Certificate (p. 238)**

Department of English, UH-334, (909) 537-5824.

**The following certificates are restricted to postbaccalaureate/graduate students only****Conflict Management Certificate (p. 215)**

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

**Counseling Certificate (p. 459)**

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

**Crosscultural, Language and Academic Development (CLAD) Certificate (p. 503)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**E-Learning Certificate (p. 438)**

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

**Education of the Gifted and Talented Certificate (p. 460)**

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

**Educational Technology Certificate (p. 438)**

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

**Holistic and Integrative Education Certificate (p. 505)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Intelligence Methodology Certificate (p. 738)**

National Security Studies Office, SB-112, (909) 537-5534.

**Reading and Literacy Certificate (p. 505)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Rehabilitation Counseling Certificate (p. 460)**

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

**School Business Management Certificate (p. 438)**

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

**Teaching English as a Second Language Certificate (p. 237)**

Department of English, UH-334, (909) 537-5824.

**Credentials****Basic Teaching Credential Programs**

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

- Adapted Physical Education Added Authorization (p. 503)
- Autism Spectrum Disorder Added Authorization in Special Education (p. 458)
- Designated Subjects Career and Technical Education (p. 439)
- Early Childhood Special Education Added Authorization (p. 460)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 465)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 461)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 463)
- Multiple Subject (p. 523)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) (p. 521)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) (p. 525)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 473)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 474)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 476)
- Single Subject - Student Teaching Track (p. 530)
- Single Subject - Intern Track (p. 528)

**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. 646).

### 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. 732).

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 Prewlaw Handbook.

For additional information, a student should see the bulletins or catalogs of various law schools or the official Prewlaw 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.

## ROTC

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>) contact the Aerospace Studies Department, FO-144, (909) 537-5440. Program details are listed under the College of Social and Behavioral Sciences Programs (p. 672).

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>), 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. 784).

## Undergraduate Degrees and Programs under Development

Degree	Contact
No pending undergraduate degrees	

# 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.
- Applied Archaeology, 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 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 537-5058 for questions about the graduate writing requirement as it relates to postbaccalaureate students.
12. Graduation Writing Requirement. Once students are classified in a graduate program, they must meet the writing requirement for that master's degree. Each program has identified what the student must do to satisfy this requirement.

## Advancement to Candidacy

Students pursuing an advanced degree through the university should, before completing 20 quarter units toward the degree (36 quarter units for programs over 70 units), prepare and file an official document titled "an approved graduate program" with the department from which they plan to receive the degree. This program lists the specific requirements to be completed before the degree can be awarded. It must be approved by

the student's major advisor and the graduate coordinator of the student's program. Once the program is accepted and approved, the student is officially advanced to degree candidacy.

## Standards for Graduate Study

In general, graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis and creative thinking than undergraduate study. Extensive research is required in both primary and secondary sources, and high quality writing is expected. The student is advised to consider these factors when deciding the amount of course work to be undertaken during any one quarter. Postbaccalaureate students will be held to all prerequisites for all courses.

All students are required to maintain a 3.0 ("B") grade-point average in all courses taken to satisfy the requirements for the degree, except that a course in which no letter grade is assigned shall not be used in computing the grade point average. 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 Office of the Registrar 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 if the program allows it. 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.

## Graduate Writing Center

The consultants in the CSUSB Graduate Writing Center work to serve CSUSB graduate students by offering assistance in learning how to construct writing projects such as thesis proposals, theses, or graduate projects; they work with writers to preserve the integrity of the writers' ideas and plans while simultaneously challenging students to interrogate and contextualize both their own ideas and the documentation supporting them. The CSUSB Graduate Writing Center serves graduate students, staff, and faculty from all disciplines at all stages of the composing process, helping writers develop confidence by offering a variety of strategies for interpreting assignments, discovering topics, expanding ideas, clarifying organization, incorporating counter-arguments, citing references, editing, and proofreading.

## Graduation Requirement Check

Candidates for degrees to be awarded must request a graduation requirement check (<http://rre.csusb.edu/evaluations/gradreqcheck.html>) at the Office of the Registrar 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 the Registrar.

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) 537-7360

Participation in commencement activities is voluntary.

For dates and deadlines please visit [commencement.csusb.edu](http://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 Guide to Graduate Studies: Policies, Procedures and Thesis, Project and Dissertation Format

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 the Registrar. 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, Sec. 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 the Registrar will be considered to have withdrawn from the university at the end of their last quarter of regular enrollment.

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

The following Leaves of Absence may be requested:

### **Medical Leave of Absence.**

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

### **Military Leave of Absence.**

For those being inducted, requests must be accompanied by a copy of military orders indicating the induction date. For students being called to active military service, Title 5, Section 40401, provides for an extended leave of absence up to a maximum of two years due to approved educational reasons and for circumstances beyond a student's control. The university will approve a leave for students called for active military service as a result of mobilization of U.S. military reserves. Students will retain their catalog rights and register for subsequent quarters. In the case of students called for active military service, the university will authorize withdrawals throughout the quarter. For additional information, assistance with dropping current classes and other processing, see the veteran's coordinator in the Office of the Registrar, UH-171, (909) 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 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 the Registrar, 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:

Full Time	12 weighted units determined as follows: 500-, 600-, and 700-level course weighted at 1.5 units 300- and 400-level course weighted at 1.0 units 100-200 no certification unless course is stated condition for admission to a graduate program
3/4 time	9.0 to 11.5 weighted units as determined above
1/2 time	6.0 to 8.5 weighted units as determined above

## Veterans Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk. Student enrollment certification is based on the following unit loads:

Full time	12 weighted units determined as follows: 500-, 600-, and 700-level course weighted at 1.5 units 300- and 400-level course weighted at 1.0 units 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. 195)
- Master of Arts in Art - Studio Art (p. 196)
- Master of Fine Arts in Studio Art (p. 198)

#### Department of Communication Studies

- Master of Arts in Communication Studies (p. 216)

#### Department of English

- Master of Arts in English Composition (p. 239)
- Master of Fine Arts in Creative Writing (not offered in the 2015-16 Academic Year)

### Department of Theatre Arts

- Master of Arts in Theatre Arts (not offered in the 2015-16 Academic Year)

### Department of World Languages and Literatures

- Master of Arts in Spanish (p. 338)

### College of Business and Public Administration

- Master of Business Administration (p. 409)
- Master of Business Administration - Executives Option (p. 412)
- Master of Business Administration - Professionals Option (p. 412)

### Department of Accounting and Finance

- Master of Science in Accountancy (3:2 Program Option) (p. 383)
- Master of Science in Accountancy (p. 382)

### Department of Public Administration

- Master of Public Administration (p. 407)

### College of Education

#### Department of Educational Leadership and Technology

- Master of Arts in Education - Career and Technical Education Option (p. 441)
- Master of Arts in Education - Instructional Technology Option (p. 443)
- Master of Arts in Education - Teacher Leadership Option (Offered through the College of Extended Learning) (p. 445)
- Master of Arts in Educational Administration (p. 446)
- Doctor of Education in Educational Leadership (p. 439)

#### Department of Special Education, Rehabilitation and Counseling

- Master of Arts in Rehabilitation Counseling (p. 469)
- Master of Arts in Education - Special Education Option (p. 466)
- Master of Science in Counseling and Guidance (p. 470)
- Master of Science in Special Education (p. 471) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)

#### Department of Teacher Education and Foundations

- Master of Arts in Education - Bilingual/Cross-Cultural Option (p. 506) -Not offered 2015-16 AY
- Master of Arts in Education -Correctional & Alternative Education Option (p. 515) - Not offered 2015-16 AY
- Master of Arts in Education - Curriculum and Instruction Option (p. 507)
- Master of Arts in Education - Holistic and Integrative Education Option (p. 509) - Not offered 2015-16 AY
- Master of Arts in Education - Kinesiology Option (p. 510)

- Master of Arts in Education - Mathematics and Science Education Option (p. 517)
- Master of Arts in Education - Reading and Literacy Option (p. 511)
- Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) Option (p. 513)
- Master of Science in Science, Technology, Engineering and Mathematics Education (p. 518)

## College of Natural Sciences

### Department of Biology

- Master of Science in Biology (p. 554)

### Department of Chemistry and Biochemistry

- Master of Science in Earth and Environmental Studies (p. 569)

### Department of Health Science and Human Ecology

- Master of Public Health (p. 599)
- Master of Science in Health Services Administration (p. 600)

### Department of Mathematics

- Master of Arts in Mathematics (p. 629)
- Master of Arts in Teaching-Mathematics (p. 630)

### Department of Nursing

- Master of Science in Nursing (p. 644)

### School of Computer Science and Engineering

- Master of Science in Computer Science (p. 663)

## College of Social and Behavioral Sciences

- Master of Arts in National Security Studies (p. 776)
- Master of Science in National Cyber Security Studies (p. 782)
- Master of Arts in Social Sciences and Globalization (p. 778)

### Department of Anthropology

- Master or Arts in Applied Archaeology (p. 691)

### Department of Criminal Justice

- Master of Arts in Criminal Justice (p. 702)

### Department of Psychology

- Master of Arts in Child Development (p. 765)
- Master of Arts in General Experimental Psychology (p. 767)
- Master of Science in Psychology (p. 768)

### Department of Social Work

- Master of Social Work (p. 794)

## Graduate Studies

- Master of Arts in Interdisciplinary Studies (p. 799)

## 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. 372)

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

### Applied Cultural Anthropology Certificate (p. 689)

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

### Arabic Certificate (p. 333)

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

### Archaeology Certificate (p. 689)

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

### Asian Studies Certificate (p. 214)

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

### Bilingual/Cross-Cultural Studies: Spanish/English Certificate (p. 334)

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

### Biotechnology Certificate (p. 556)

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

### Business Skills for the Artist Certificate (p. 195)

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

**California Indian Languages and Cultures Certificate (p. 334)**

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

**Career and Technical Education Certificate (p. 437)**

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

**Coaching Certificate (p. 614)**

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

**Communication Skills Certificate (p. 215)**

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

**Computer Systems and Programming Certificate (p. 665)**

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

**Criminal Justice Certificate (p. 702)**

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

**Cyber Security Certificate (p. 372)**

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

**Education Certificate (p. 503)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Fitness Management Certificate (p. 615)**

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

**French/English Translation Certificate (p. 335)**

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

**Gender and Sexuality Studies Certificate (p. 504)**

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

**Geographic Information Systems Certificate (p. 720)**

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

**German/English Translators Certificate (p. 332)**

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

**Gerontology Certificate (p. 601)**

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

**Health Care Management Certificate (p. 602)**

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

**Healthcare Spanish, Certificate (p. 337)**

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

**Information Systems Management Certificate (p. 373)**

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

**International Relations Certificate (p. 739)**

Department of Political Science, SB-112, (909) 537-5535/5534.

**Introductory Actuarial Science Certificate (p. 632)**

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

**Introductory Mathematics Certificate (p. 632)**

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

**Islamic and Middle Eastern Studies Certificate (p. 679)**

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

**Japanese Language and Culture Certificate (p. 336)**

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

**Latin American Studies Certificate (p. 690)**

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

**Museum Studies Certificate (p. 690)**

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

**Native Nations/Indigenous People Certificate (p. 680)**

College of Social and Behavioral Sciences, SB-207, (909) 537-7500

**Puppetry Certificate (p. 285)**

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

**Recreation Leadership Certificate (p. 615)**

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

**Social Services Certificate (p. 776)**

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

### **Spanish for Public Services Certificate** (p. 337)

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

### **Supply Chain Management Certificate** (p. 373)

Department of Information and Decision Sciences, JB-460, (909) 537-5723.

### **Theatre for Youth Certificate** (p. 286)

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

### **Urban Planning Certificate** (p. 720)

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

### **Writing: Creative Writing Certificate** (p. 238)

Department of English, UH-334, (909) 537-5824.

### **Writing: Professional Writing Certificate** (p. 238)

Department of English, UH-334, (909) 537-5824.

## **The following certificates are restricted to postbaccalaureate/graduate students only**

### **Conflict Management Certificate** (p. 215)

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

### **Counseling Certificate** (p. 459)

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

### **Crosscultural, Language and Academic Development (CLAD) Certificate** (p. 503)

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

### **E-Learning Certificate** (p. 438)

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

### **Education of the Gifted and Talented Certificate** (p. 460)

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

### **Educational Technology Certificate** (p. 438)

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

### **Holistic and Integrative Education Certificate** (p. 505)

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

### **Intelligence Methodology Certificate** (p. 738)

National Security Studies Office, SB-112, (909) 537-5534.

### **Reading and Literacy Certificate** (p. 505)

Department of Teacher Education and foundations, CE-261, (909) 537-7405.

### **Rehabilitation Counseling Certificate** (p. 460)

Department of Special Education, Rehabilitation and Counseling, CE-243, (909) 537-5606.

### **School Business Management Certificate** (p. 438)

Department of Educational Leadership and Technology, CE-374, (909) 537-7404.

### **Teaching English as a Second Language Certificate** (p. 237)

Department of English, UH-334, (909) 537-5824.

## **Credentials**

### **Basic Teaching Credential Programs**

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

- Adapted Physical Education Added Authorization (p. 503)
- Autism Spectrum Disorder Added Authorization in Special Education (p. 458)
- Designated Subjects Career and Technical Education (p. 439)
- Early Childhood Special Education Added Authorization (p. 460)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 465)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 461)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 463)
- Multiple Subject (p. 523)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) (p. 521)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) (p. 525)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 473)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 474)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 476)

- Single Subject - Student Teaching Track (p. 530)
- Single Subject - Intern Track (p. 528)

## Specialist and Services Credential Programs

- Administrative Services Preliminary (p. 435)
- Administrative Services Preliminary (Internship) (p. 434)
- Administrative Services Professional (p. 435)
- Education Specialist Clear Credential (p. 461)
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 479)
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 478)
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 478)
- Pupil Personnel Services Credential: School Counseling (p. 479)
- Pupil Personnel Services Credential: School Psychology (p. 480)
- Reading and Literacy Leadership Specialist Credential (p. 527)
- Supervision and Coordination of Designated Subjects Program (p. 447)

## 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.

Degree	Contact
Correctional Education, Ph.D.	College of Education (joint with Claremont College)
Kinesiology, M.S.	College of Natural Sciences
Music, M.A.	College of Arts and Letters

# 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 juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements. Graduating seniors who are members of PKP have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study. The deadline is April 1st each year.

## Gamma Lambda of Phi Beta Delta

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

## 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 life-long 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.

## 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.

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.

## 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.

## Classroom Support

Media equipment is fast becoming the backbone of the instructional environment and Classroom Support 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.

## 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.

## 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>). Organizationally, 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

## 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](mailto: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.

## 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.

## 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 website (<http://acs.csusb.edu>)

The Department of 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 website (<http://acm.csusb.edu>)

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.

## 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.

## Information Security and Emerging Technologies

Information Security and Emerging Technologies website (<http://iso.csusb.edu>)

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 includes 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 Office of the Registrar 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://www.bkstr.com/csusanbernardinostore/home>)

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.csusb dining.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 a 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](mailto: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: Vipin Gupta, (909) 537-5796 and Frank Lin, (909) 537-5700. The Center for Global Management is created in order to facilitate developing programs in international business and public administration and supports regional internationalization efforts for the benefit of the faculty, the students, and the local international communities.

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

## College of Education

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

**Watson and Associates Literacy Center.** Director, Diane Brantley, Department of Language, Literacy and Culture, (909) 336-5605. Provides

systemic tutorial assistance in reading, writing and oral language for students across the K-12 grade levels as well as adults seeking empowerment and better life opportunities through literacy.

**Center for the Study of Correctional Education.** Directors, Carolyn 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. 102) 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://alumni.csusb.edu>)

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>)

Our mission is: "To Represent Students." We are the recognized voice of the students at CSUSB. We represent the interests, needs, and concerns of over 19,000 students, including students from our Palm Desert Campus, to the campus. In support of this mission, ASI advocates the growth and development of student leadership through the many committees, programs, events and activities we endorse throughout the campus. Every regularly matriculated student is a member of ASI and is responsible for annually electing our Board of Directors and

Executive Leadership team. These elected representatives represent students' interests to the campus community, as well as state and federal legislators.

In addition to serving students we offer these services:

- Box Office
- College Legal Clinic
- Design Services
- Student Research & Travel Grants
- Activities Board
- Club Allocation Budget
- Scholarships to athletes, PAES and General scholarship fund
- Children's Center Support

## 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, track and field and volleyball for women; and baseball and golf for men.

The university mascot is the Coyote and the colors are 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 and assistance with applying for grad school.
- 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, and Interview Practice & Preparation.
- Career Events - multiple off-campus career events, 5 on-campus career fairs annually.
- Career Launch - 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

Special Events, CO-107  
(909) 537-7360

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, game room, fitness center, computer room, and study areas. Outdoor recreation includes barbeque grills, patio seating, sun deck, and a swimming pool. All amenities are available for residents to relax and meet with friends.

The Residence Hall Association (RHA) organizes student programs for the residents of the "Villages 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 2015-2016 academic years includes a meal plan and is projected to be \$7584 per person, per academic year for a double room, \$8835 per academic year for a single room. Rental rates in Arrowhead Village for the 2015-16 academic years are projected to be \$7,173 per academic year for a private, single occupancy 4-bedroom and 2-bathroom apartment; \$8649 per academic year in a private studio; and \$8814 per person, per academic year in a private, single occupancy 2-bedroom and 2-bathroom apartment. Rental rates in University Village for the 2015-16 academic years are projected to be \$7608 per person, per academic year in a private single occupancy 4-bedroom and 2-bathroom apartment; \$8547 per person, per academic year in a private single occupancy 2-bedroom and 1 bathroom apartment; \$8694 per person, per academic year 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

PL-268

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

The term "Ombuds" is a Swedish word which refers to the people's representative. The office of Ombuds Services is a confidential, independent, impartial, and informal resource for students, faculty, and staff. Services include assisting with conflict resolution, disputes, and complaints, exploring options, facilitating communication between parties in various ways, providing information on policies or procedures and making referrals to other resources which may be helpful. The Ombuds Officer's goal is to seek constructive and equitable outcomes for any university related concern. The service is provided free of charge and works in cooperation with campus constituencies to help resolve issues.

## 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. Planned activities also provide students with leadership opportunities and employment, which yields opportunities to promote learning as well as relaxation, entertainment, and social interaction. As the meeting place on campus for students and their organizations, the physical facilities provide a comfortable and relaxing environment

which facilitates the delivery of services important to the university community. 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.

The SMSU includes lounge areas, study lounges, the Coyote Cafe, the Blue Coyote Pub, Starbucks, Coyote Express convenience store, theater, game room and a spacious lobby. Offices for the Associated Students, Inc., Title IX & Gender Equity, Orientation & First-Year Experience and the Office of Student Leadership and Development are also part of the facility. Services provided in the Student Union include meeting rooms for organizations, a state of the arts theater, a multi-purpose Events Center used for major events, an Automatic Teller Machine, graphics services, and Student Union scheduling.

The **Cross Cultural Center (CCC)** focuses on issues of race and ethnicity in its mission to provide a space for all CSUSB students. The CCC provides programs and services to aid in students' personal, educational, cultural, social, political, and professional growth and to foster a sense of community. Its programs and services combine to create a place for students to explore issues of identity, ethnic and cultural diversity and work towards ending intolerance by the development of understanding.

The **Gamers Lounge** is a great place to hang out with your friends and relieve a little stress through some friendly competition. Its proximity to the Food Court makes it an ideal place to have lunch while playing billiards or playing video games. During the quarter they offer a wide variety to competitions and events, some for prizes and others for bragging rights. So bring your "A-Game" if you intend on relaxing in the lounge.

The **Interfaith Center** is a welcoming space for student of all faiths. This Center provides space for students to study, host meetings, and relax between classes. The center is equipped with a television, refrigerator and microwave.

The **Osher Adult Re-Entry Center (OARC)** offers support for non-traditional students by providing programming which addresses both the academic and social needs of mature students. The OARC provides resources and referrals for services both on campus and in the community. The OARC is a place where students who have returned to school after a prolonged absence can gather for support, share interests and experiences, and participate in campus life. In addition, the OARC is pleased to offer the Osher Foundation Scholarship each year to qualifying students.

The **Pride Center** provides a safe, friendly environment for Lesbian, Gay, Bisexual, Transgender, Intersex, Queer, Questioning, and Allied students, faculty and staff. The Pride Center provides programs and services to aid in students' personal, educational, cultural, social, political, and professional growth and to foster a sense of community. The Pride Center is committed to providing services to LGBTIQQ students of all cultures, backgrounds, religions, classes, ethnicity's, genders and sexual orientations.

**Program Board.** The Student Union Program Board promotes a sense of community at CSUSB through exciting, entertainment-oriented events such as movie showings, bands, dances and contests held in the SMSU. Program Board creates learning experiences for its members, which benefit the students of CSUSB as well as foster the personal and professional growth of the students. Members of Program Board 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 focuses on issues which affect the lives of women. The WRC is committed to addressing sexism and discrimination in all its forms in order to create a more just environment for all. WRC is a place for students to gather, to gain support, and learn tools for social change.

## 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>)

The Office of Services to Students with Disabilities (SSD) strives to empower students with disabilities by fostering skills such as self-advocacy, resourcefulness and independence. The SSD office works collaboratively with the campus community to remove barriers, promoting an enriched learning environment where students with disabilities can utilize their skills and pursue their academic and personal development goals.

SSD provides educational services to students who have a documented permanent or temporary disability. 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, notetaking, smart pens, 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.

## Orientation & First-Year Experience (OFYE)

(909) 537-3233 SOAR website (<http://soar.csusb.edu>)

Orientation and First-Year Experience is responsible for developing and implementing of welcome and transition programming for newly admitted freshmen and transfer students and their family members. The Student Orientation Advising and Registration (SOAR) program is coordinated through the OFYE office. 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 and help set them up for student success here at CSUSB. These transition 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.

There are also great leadership opportunities for students available with OFYE to serve as student Orientation Leaders and help with a new student's transition into the Coyote family. OFYE recruits and trains about 50 students to be Orientation Leaders. Applications are available in fall quarter and training is in spring quarter with the majority of work happening over summer. Once classes begin, the programming doesn't stop. There are a number 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 180 student clubs and organizations and offers 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 very own experiment with different roles, which help identify 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 learn how to lead an organization, conduct effective meetings and elections, as well as develop communication, mediation skills, and 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 National Society of Leadership & Success (<http://studentleadership.csusb.edu/LeadershipAcademy>) is a comprehensive program that offers skill-building workshops focused on Individual Development, Organizations and Community, and Diversity Awareness. The NSLS includes a personal assessment of the students' leadership potential and a strong focus on personal reflection as a tool for growth and development. With over 400 chapters nationwide and over 300,000 members, participation in this organization leads to strong networking skills. Members work closely with high-caliber advisors and national leaders to become inducted. Inductees are recognized at a special ceremony twice per year. NSLS members often describe their experience as life changing by increasing their self-esteem and personal effectiveness. Many students successfully land jobs after graduation.

and credit the National Society of Leadership & Success with their accomplishments.

## 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](mailto: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 Student Conduct & Ethical Development in University Hall, room 346.

## Student Health Center

*Accredited by the American Association of Ambulatory Health Care*  
(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, family planning, and immunization programs. Students are referred to community health facilities 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 fill prescriptions and purchase over-the-counter items. Other services include laboratory and x-ray access. Charges associated with these services are usually lower than those found elsewhere.

All regularly enrolled students are eligible for services. Students in the extended learning program and those on staff fee waiver are not eligible. Though not a condition of enrollment, it is important to carry health insurance. The Center hosts Covered California representatives to assist students in applying for health insurance.

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

**In case of an on - campus emergency**, contact the Department of Public Safety by dialing 9-1-1.

**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 graduated from a California Public School during or after 2005. Meningitis vaccine is recommended for students living in housing. Immunization requirements must be fulfilled in advance of or during the first quarter of attendance at CSUSB. Vaccines are offered by the Student Health Center for a fee.

Students may fulfill these requirements by bringing, faxing (909) 537-7027, or mailing documentation to the Health Center. The Student ID number 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 a fee. 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 and participate in campus wide health initiatives through membership on the Student Health Advisory Committee (SHAC). 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.

## Counseling and Psychological Services (CAPS)

*Accredited by the International Association of Counseling Services*

*Accredited by the American Association of Ambulatory Health Care*

Student Health Center Building, West Entrance

(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 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.

### **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
- Indoor Soccer

### **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
- Women's Volleyball
- Men's Volleyball
- Women's Water Polo
- Pack Tennis Club
- Badminton Club

### **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. The course also serves the surrounding community for groups such as school districts, military and corporations alike. (who else do we serve its not just these listed)

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. The 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.

## 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 to protect the life and property of the campus community. The department provides professional service to the University community through proactive patrol, diligent crime prevention, and disaster preparedness. We provide these services utilizing our core values of safety and service, integrity, and using a community CPOP (Campus Problem Oriented Policing) approach. The Department's mission of campus safety through service is reflected in our motto "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 response and coordination. The University Police Department 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 the University Police tab.

## Veterans Success Center

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

Since opening May of 2012, CSUSB's Veterans Success Center (VSC) has built a strong reputation throughout the Inland Empire for offering innovative leadership opportunities and education programs. The center is ranked ninth in the nation by Military Times and as a top military school in the state of California by two top national college guides for veterans. On November 10, 2014, the VSC opened its second location at the CSUSB-Palm Desert Campus to better serve Coachella Valley veterans and dependents. 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 achieving 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, a group room for students to congregate between classes and hold study groups, and a lending library where students can checkout textbooks free of charge. 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; a monthly seminar series; a weekly mental health support group; STEM tutoring; advocacy, and referral services; a military veterans writers group; and arts 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.

Effective fall 2015 Campus Category II Fees charged to students will be adjusted using the Higher Education Price Index (HEPI) on an annual basis. Yearly increases are not to exceed 4% of prior year HEPI. The Associated Students Incorporated fee and the ID fee will not be impacted. Visit the Student Financial Services website at [sfs.csusb.edu](http://sfs.csusb.edu) for more information.

## 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 Facilities fee	13.39
<b>Basic Tuition Fees 2015/16</b>	
Undergraduate Tuition Fee	
0-6 units	1,058.00
6.1 or more units	1,824.00
Credential Tuition Fee	
0-6 units	1,228.00
6.1 or more units	2,116.00
Graduate/Postbaccalaureate Tuition Fee	
0-6 units	1,302.00
6.1 or more units	2,246.00
Graduate Business Professional Fee, per unit	169.00
Supplemental Fee: MPA online courses per unit fee	90.00
Doctoral Candidates Tuition Fee	
All Students	3,706.00
Western University Exchange Program	

0-6 units	1,587.00
6.1 or more units	2,736.00
Associated Students, Inc. fee	
Fall	43.00
Winter	40.00
Spring	40.00
Summer	21.00
Coyote One Card	
Replacement	10.00
Student union fee	
Fall	130.30
Winter	126.18
Spring	126.18
Summer term	97.85
Health Center service fee	
Summer only	57.17
Student Success fee	55.62
Instructionally related activities fee:	
<b>Note:</b> Fees subject to change without notice.	
Fall	51.50
Winter	49.44
Spring	49.44
Summer	18.54
<b>Nonresidents (U.S. and foreign)</b>	
Tuition (in addition to other fees charged to all students):	
per unit	248.00
one-half unit	124.00
<b>Residence halls (estimated annual costs)</b>	
Serranno Village	
Double Residence Hall	
\$4,437 + mandatory meal plan	6,990.00
\$2,553.00=	
Single Residence Hall	
\$5,535 + mandatory meal plan	8,088.00
\$2,553.00=	
Super Single Residence Hall	
\$6,012 + mandatory meal plan	8,565.00
\$2,553.00=	
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
<b>Special fees</b>	
Administrative fee	22.00
Credential fee	60.00
Various laboratory, activity, and art studio fees	consult the Class Schedule for current fees
Late registration	25.00
Enrollment cancellation fee	25.00
Failure to meet required appointment or time limit	5.00
Grad check/Diploma fee (per major)	25.00
Grad check/Diploma, late, first filing (per major)	45.00
Refiling (per major)	20.00
Late refiling (per major)	40.00
Diploma replacement fee	25.00
Enrollment confirmation deposit (non-refundable)	100.00
Enrollment verification (each)	4.00
Emergency loan processing fee	25.00
Emergency loan late fee	25.00
Graduation certificates	10.00
Commencement fee	50.00
Certificate fee	25.00
Change of major/Graduate change of program	6.00
SOAR Mandatory Fee (non refundable)	65.00
SOAR Student Services Fee (non refundable)	85.00
Administration Fee	25.00
Lost Key Fee	25.00
Graduate Orientation Fee	49.00
<b>Parking fees</b>	
Quarter	
Four-wheel vehicle	102.00
Two-wheel vehicle (includes mopeds)	69.00
Arrowhead/Serrano Village parking	102.00
University Village parking	102.00
Check returned for any cause or credit card declined	25-35.00
Lost document replacement	2.00
<b>Transcript of academic record</b>	
Single transcript	6.00
Additional transcripts prepared at the same time	3.00
Expedited transcript request (each)	8.00
Faxing unofficial transcript	10.00

Library fees	schedule posted at Library circulation desk
Master's degree thesis	contact Office of Graduate Studies

## 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;
- and



3. registered as an entering student or are currently enrolled at a CSU campus.

Section 68130.5 Students who are not residents of California are exempt from paying nonresident tuition if they

1. attended high school in California for three or more years;
2. graduated from a California high school or attained the equivalent; and
3. registered as an entering student or are currently enrolled at a CSU campus.

In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are nonimmigrant aliens within the meaning of 8 U.S.C. 1101(a)(15), except as provided by Section 68122 above.

## Disabled Student Quarterly Parking Fee Waiver

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

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

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](mailto: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](mailto: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 valid disabled 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 division 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:

- Carpool permits
- Carpool ride matching services
- Vanpool services
- 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 Office of Financial Aid & Scholarships, 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:

- 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 Afshy;fairs, 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 birthshy;day to receive financial aid, federal grants and loans. Selective Service registration forms are available at any U.S. Post Ofshy;fice. 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 acashy;demc or career-oriented jobs. Visit the Office of Financial Aid & Scholarships website (<http://finaid.csusb.edu>) or contact Student Employment 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

Office of Financial Aid & Scholarships  
(909) 537-5227 Office of Financial Aid & Scholarships website (<http://finaid.csusb.edu>)

The Office of Financial Aid & Scholarships administers a variety of Federal and State programs to assist eligible students. Sources of aid include the Federal Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Cal Grant A & B, Federal Direct Loans, Federal Perkins Loan, TEACH Grant and the Federal Work-Study program. Private/alternative loans are also available. The Office of Financial Aid & Scholarships also administers the State University Grant (SUG), Graduate Business Grant (GBG), Ed Doctorate Grant (Ed Doc) and Educational Opportunity Program Grant (EOP). A full description of the university's financial aid programs is available on the Office of Financial Aid & Scholarships website (<http://finaid.csusb.edu>).

**Work-Study.** Work-Study is a federally funded program that provides part-time employment for students who are eligible to participate in need-based financial aid programs. Work-Study students are placed in on and off-campus positions to help offset a portion of their educational expenses. Work-Study at CSUSB also provides opportunities for students to develop job skills and secure academic or career-oriented jobs. For additional information visit the Office of Financial Aid & Scholarships 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 submitted to the processor by March 2nd each year. Late applications are accepted after March 2nd and throughout the school year. Apply online via the FAFSA website (<https://fafsa.ed.gov>).

## Financial Aid Chart

You may contact the Office of Financial Aid & Scholarships 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.

### Scholarships

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Local scholarships	High school or college counselor	GPA, need	No
University scholarships	University financial aid officer	GPA or GPA and need	No

### Grants

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Federal Pell Grant	University financial aid officer	Need	No
Federal Supplemental Educational Opportunity Grant (SEOG)	University financial aid officer	Need	No

Federal TEACH Grant	University financial aid officer	Enrollment/major *	
Cal Grant A & B, Fellowships	University financial aid officer, High school or college counselor	GPA, need	No
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

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Perkins Loan	University financial aid officer	Need	Yes
Direct Subsidized Loan	University financial aid officer	Enrollment	Yes
Direct Unsubsidized Loan	University financial aid officer	Enrollment	Yes
Direct Parent Loan for Undergraduate Students	University financial aid officer	Enrollment	Yes
Grad Plus Loan for Graduate Students	University financial aid officer	Enrollment	Yes

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

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Federal work-study program	University financial aid officer	Need	No

\* 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 Office of Financial Aid & Scholarships website (<http://finaid.csusb.edu>) for more information.

## Scholarships

Scholarships listed below are awarded to new and continuing students attending CSUSB. The CSUSB Office of Financial Aid & Scholarships administers most scholarships on campus. Scholarships administered by the CSUSB Office of Financial Aid & Scholarships 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 Office of Financial Aid & Scholarships 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

**Alfred and Chella Moore Scholarship** provides scholarships to incoming freshmen with outstanding academic records (3.5 GPA minimum). Some awards may automatically be renewed for an additional three years. No special application is required for renewal.

**CSUSB 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.

**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.

**Joseph K. Thomas Scholarship** is awarded to incoming freshmen or transfer students 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.

**Robert and Claire Forsythe Scholarship** is awarded to incoming freshmen with a minimum 2.0 GPA. Student must be enrolled at CSUSB with at least 6 quarter units. Preference will be given to Arts and Letters majors.

**San Bernardino Confidential Management Association 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, students should be a resident of the City of San Bernardino.

### Scholarships for College of Arts and Letters

**Anthony and Lois Evans Scholarship** is awarded to students that are involved in student performance activities such as music, theatre art, or debate/forensics. Must have a minimum 3.5 GPA.

**Arlene Roberts Memorial Scholarship** provides awards to full-time art majors with a minimum 3.0 GPA, and who has financial need.

**Art Department Scholarship** provides scholarship support to students majoring in Art.

**Asian Studies Expendable Scholarship** provides scholarships to undergraduate students with a declared minor in Asian Studies.

**Bill and Janice Lemann Art Scholarship** provides scholarships to students pursuing an undergraduate or graduate degree in the Art department. Must have a cumulative 2.7 GPA. Financial need is preferred.

**Bilson/DeMeo Scholarship** provides scholarships to incoming or transfer students with a minor in Theatre.

**Carol Channing & Harry Kullijan Scholarship** is awarded to students pursuing a degree in visual and performing arts or a teaching credential in art education. Must have a cumulative 3.0 GPA.

**College of Arts and Letters President's Academic Excellence Scholarship** provides scholarships to President's Academic Excellence students enrolled in the College of Arts and Letters.

**Dr. Arthur A. Moorefield Scholarship** is awarded to full-time music majors that have a cumulative 3.3 GPA. For more information, contact the Music Department at (909) 537-5859.

**Edison Scholars Program - Arabic Studies Scholarship** is provided to upper division students majoring in Arabic studies with financial need. Must have a cumulative 2.8 GPA. Selected recipients must agree to participate in the Edison Scholars program.

**Eri F. Yasuhara Scholarship Fund** is awarded to Presidents Academic Excellence students who are enrolled in the College of Arts and Letters. Preference is given to students with financial need.

**Gerry and Glenda Bayless College of Arts and Letters Scholarship** is awarded to students who are enrolled in the College of Arts and Letters, and have a minimum 3.0 GPA. Preference is given to students with financial need.

**James H. and Helen H. Urata Scholarship** is awarded to College of Arts and Letters students with a cumulative 3.0 GPA. Financial need is preferred.

**Josephine Lombardo Scholarship** provides a scholarship to students enrolled under the College of Arts and Letters Music Program that demonstrates commitment to the study of classical music with a cumulative 3.0 GPA. Financial need is preferred.

**Music Department Scholarship** provides merit scholarships to students who have demonstrated above average proficiency with a musical instrument and have performed with a related university organization.

**P. Richard Switzer Scholarship** is awarded to CSUSB students who are enrolled in the CSU International Program or another approved academic program in France. Students must 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.

**Roger Broadfoot Memorial Scholarship** is awarded to students that work at the CSUSB Chronicle. The scholarship may also go to athletes or Spanish and French majors.

**Ronald & Mary Barnes Scholarship** provides renewable scholarships to Theater Arts majors with a 3.0 minimum GPA. Preference goes to students who participate in two or more theater-related areas.

**Sam and Beverly Maloof Scholarship** is awarded to undergraduates students majoring in art or a graduate student enrolled in M.A in Art or M.F.A in Studio Art and Design with a cumulative 3.0 GPA. Must demonstrate serious interest in pursuing a career in the Visual Arts. Financial need is preferred.

**Douglas A. Housel Memorial Scholarship** is awarded to junior or senior Liberal Studies students. Selected recipients must sign an agreement that they have never been convicted of a DUI.

**Theatre Arts Scholarship** provides scholarships to Theatre Arts majors with a superior academic record.

**Vivien Bull Scholarship** provides scholarships to students with a minimum 3.0 GPA. 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**

**Accounting Research Scholarship** provides awards to undergraduate students majoring in Accounting with a minimum 3.0 GPA.

**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.

**Bellis Scholarship** 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.

**Bernadine A. Taylor President's Academic Excellence Scholarship** provides scholarships to students who are pursuing a degree in Business. Student must be working part time or full time. Priority will be given to students enrolled in the President's Academic Excellence program. Must have a cumulative 3.5 GPA.

**Beverly Smith Scholarship** is awarded to a student majoring in Finance or Ecology and must have and maintain a 3.0 GPA.

**Bruce and Nancy Varner Endowed Scholarship** is awarded to a full-time sophomore, junior or senior student enrolled in the CBPA with a minimum 3.25 GPA.

**Business Access and Opportunity Scholarship** provides scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business and Public Administration.

**Candace Hunter-Wiest Arrowhead Distinguished Executive Officer Scholarship** is awarded to a student who is full-time sophomore or junior business major and with a 3.25 GPA. Student must maintain a 3.25 GPA each quarter the award is received.

**Charles and Shelby Obershaw Scholarship for Business** provides scholarships to full-time juniors pursuing a degree in Business with a minimum 3.0 GPA and has financial need.

**CL Expendable Scholarship** provides scholarships to CBPA students who have financial need with a minimum GPA of 3.5, demonstrating an interest in accounting and has a career goal as a CPA.

**Daniel B. Bagdon Scholarship** provides scholarships to full-time sophomore and juniors with a declared concentration in College of Business and Public Administration. Must have a cumulative 3.25 GPA.

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

**Dean Karen Dill Bowerman Scholarship** provides scholarships to students in the College of Business and Public Administration, preferably with a concentration in management.

**Donald A. Driftmier 2003 Arrowhead Distinguished Executive Officer Scholarship** provides scholarships to students enrolled in the College of Business and Public Administration with a cumulative 3.25 GPA.

**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.

**Franklin Tomkins Memorial Scholarship** provides scholarships to junior or seniors in the College of Business and Public Administration. Must have a cumulative 3.0 GPA. Preference is given for financial need.

**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.

**Glenda and Gerry Bayless College of Business and Public Administration Scholarship** provides a scholarship to an accounting major who has completed Accounting 372 and has a 3.0 minimum GPA.

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

**Independent Insurance Agents and Brokers of the Inland Empire (IIABC) Scholarship Fund** is awarded to students enrolled as a President's Academic Excellence scholar in the College of Business and Public Administration.

**Jack C. Scott Memorial Scholarship** provides a scholarship to a student majoring in accounting with a minimum 3.0 GPA.

**James Robinson Scholarship** provides scholarships to full-time students preparing to enter junior or senior year toward a degree in the College of Business and Public Administration. Must have a cumulative 3.2 GPA.

**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.

**John F. Merrell Charitable Foundation Scholarship** provides scholarships to students enrolled in the College of Business and Public

Administration program with a cumulative 3.0 GPA. Must demonstrate an interest in accounting and/or finance.

**John H. Merryman Scholarship Fund** provides scholarships to full-time undergraduate sophomores, juniors, seniors or graduate students in the College of Business and Public Administration. Students must be enrolled in the CBPA Management department with an interest in the entrepreneurship program, and have a cumulative 3.5 GPA. Preference is given to students with financial need.

**Judy Davis Memorial Scholarship** provides scholarships to marketing students with a 3.0 GPA or higher who demonstrate a commitment to serving the community.

**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.

**Mohamed & Senea El-Mahdy El-Ahraf Fund** provides scholarships to students enrolled in the Master of Public Administration program who have demonstrated distinguished administrative performance in the government sector.

**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.

**Noel and Amanda Massie Scholarship** provides scholarships to students in the College of Business and Public Administration. Must have a cumulative 3.0 GPA.

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

**Richard C. Moseley Marketing Scholarship** provides scholarships to students majoring in Marketing, a minimum 3.0 GPA, must be a sophomore, junior, or senior, and must be a full-time student. First preference will be given to employees of Stater Bros. Markets and immediate relatives of employees.

**Robert and Yolanda Wengen Scholarship** provides scholarships to students with a concentration in finance or accounting. Must be a full/part-time undergrad student with a cumulative 3.5 GPA. Preference is given for financial need.

**Sidney and Ruth Saleson** 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.

**Spirit of the Entrepreneurship 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).

**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.

#### **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 Scholarship** 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.

**Charles and Shelby Obershaw Scholarship for Education** 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 who have financial need.

**Clara McKinney Scholarship** provides a scholarship to a student studying early childhood education with a minimum GPA of 3.0. Consideration will be given to students who reside, or have resided, in the Barstow area.

**College of Education Scholarship** provides scholarships to students enrolled in the College of Education.

**Eva Mae Merchant Education Scholarship** is awarded annually to students enrolled in the College of Education.

**Linda Sage Scholarship Endowment** provides scholarships to full-time junior status students entering the field of education with a cumulative 3.0 GPA. Preference is given to single parents and those in financial need.

**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 Masters degree program in Educational Administration at CSUSB and has a minimum GPA of 3.5.

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

**Patricia Arlin Scholarship** provides scholarships to students in the Masters, Credential or Doctorate program.

**Schools First Federal Credit Union Scholarship** provides scholarships to students enrolled in an education credential program, have a 3.0 cumulative GPA and demonstrate financial need.

**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 GPA during their junior and senior years.

**Vairin/Gonzales Scholarship for the College of Education** provides scholarships to students enrolled in the education program with a cumulative 3.0 GPA.

**Victress Bower Scholarship** provides scholarships to full-time students with a cumulative 3.0 GPA. Financial need is preferred.

#### **Scholarships for College of Natural Sciences**

**Arthur L. Littleworth Scholarship in Water Resource Studies** provide 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 awards to students that demonstrate an interest in water resources. A minimum 3.25 GPA is preferred. Students must be currently employed or express an interest in pursuing a career in the water industry.

**Bitoun Family Scholarship** provides scholarships 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.

**Charles Fred Kellers Endowment** is awarded to a students majoring in Physics with a cumulative 3.0 GPA. Students must demonstrate financial need.

**Chemistry Summer Research Scholarship** provides funding to Chemistry students for summer research.

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

**CSU/Edison Transfer Scholarship Program** provide scholarships to transfer students with a 2.0 GPA. Students must be enrolled in Math, Physics, Chemistry, Geology, Computer Science, Engineering, Biology or Technology.

**David and Dorothy Chen-Maynard Endowment** provide scholarships to students that are enrolled in the College of Natural Sciences with a cumulative 3.0 GPA. Financial need is preferred.

**Doyle Boen/Eastern Municipal Water District Endowed Scholarship** provides awards to students enrolled in the MPA Water program or BS program in Environmental Geology. Students must have a cumulative 3.25 GPA. Financial need is preferred.

**Dr. Fook Fah Liu Scholarship** provides scholarships to full-time juniors or seniors in computer science with a cumulative 3.0 GPA.

**Dr. Josephine Mendoza Scholarship** provides scholarships to students majoring in Computer Science. Financial need is preferred.

**Dr. Peter Wetterlind Scholarship** provides scholarships to seniors in computer science with a cumulative 3.5 GPA.

**Dr. Prem Reddy Academic Excellence Scholarship** assists 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.

**Eva Mae Merchant Nursing Scholarship** provides scholarships to students pursuing a teacher preparation credential.

**Frances Louise Davidson Crum Scholarship** provides scholarships to seniors that have an interest in geriatric nursing.

**Janie Gehrke & Kimberly-Wallace-Movaghar Nursing Scholarship** provides scholarships to full-time senior Nursing students with a cumulative 3.0 GPA.

**Jim Roddy Scholarship Endowment** provides scholarships to students engaged in public duties and functions.

**John Brudin Scholarship** provides awards for students enrolled in the Environmental Geology Education program with a cumulative 3.0 GPA. Students from Hemet/San Jacinto area are preferred. Financial need will be highly considered.

**Katsuhiko 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.

**Kim Hughes Scholarship** provides scholarships to honors student in the Math Department.

**Krieger & Stewart Scholarship** provides scholarships to students based on academic achievement, career potential in water policy or water resources, as well as demonstrating outstanding individual character. Financial need is preferred.

**Lena Pond Scholarship** provides scholarships to full-time permanent residents of Riverside or San Bernardino Counties with a cumulative 3.0 GPA. Financial need is preferred.

**Leon V. and Marion G. Pittman Scholarship** provides scholarships to full-time sophomore students majoring in biology, chemistry, mathematics, or physics. The emphasis in selection is on the student's academic record during their freshman year of studies at CSUSB.

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

**Lois B. Krieger/Western Municipal Water District Scholarship** provides awards to students currently enrolled, or plan to enroll, in

the Masters of Public Administration (MPA) program 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.

**Lucila Carreon Scholarship** provides scholarships to students that demonstrate an interest in Nursing with a cumulative 2.5 GPA. Financial need is preferred.

**Math Department Scholarship** provides scholarships to students majoring in Math.

**Mike and Janie Ritter Scholarship** provide scholarships to full-time senior Nursing students with a cumulative 3.0 GPA.

**Mojave Desert Charles L. Fryxell Endowment** 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.

**Nursing Department Scholarship** provides scholarship to students enrolled in the Nursing program

**Ochoa/Fernandez Family Scholarship** provides awards to undergraduate students who have declared geology as their major. They must have received a B+ or higher in Geology 301. Awards will be used to offset field expenses.

**PAES Nursing, Pre-Medical & Pre-Dental Scholarship** is awarded to a CSUSB student who is a Presidents Academic Excellence Scholarship (PAES) recipient in the College of Natural Sciences and complies with the criteria established under the PAES terms.

**Peter Wetterlind Scholarship** provides scholarships to seniors in Computer Science with a cumulative 3.5 GPA.

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

**Richard Fehn Scholarship Endowment** provides scholarships to graduate or undergraduate students conducting research under the guidance of a faculty member in Biology. Graduate students are preferred.

**Ruben S. Ayala Scholarship** provides scholarships to students living in the Chino, Ontario, or Rancho Cucamonga area 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 minimum GPA of 3.25 and financial need.



**Terry Hallett Fund** provides scholarships to student enrolled as a Math major, has a minimum 3.5 GPA, and demonstrates an interest in a career in mathematics and/or pursuing a Masters degree in mathematics. Preference is given to a math honors students and juniors or seniors.

**The Lucille and Roy Anderberg Nursing Scholarship Fund at The Community Foundation serving Riverside and San Bernardino Counties** provides scholarships to Nursing students in the RN program with a cumulative 3.0 GPA. Financial need is preferred.

**Water Resources Institute Scholarship** provide scholarships to students that are interested in a career with water resources

**WRI Endowed Scholarship in WR Studies** provides awards to full-time students in an undergraduate or graduate program at CSUSB. Students must demonstrate an interest in water resources evidenced by coursework, internship, or special project. Must have a cumulative 3.0 GPA and demonstrates an interest to continue education beyond a Masters degree. Financial need is preferred.

#### **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.

**Anthropology Department Scholarship** awards to students with a 3.5 GPA, who are Anthropology majors; preference will be given to students who have resumed education after a significant break after high school and/or students who have in interest in archaeology.

**Archaeology and Anthropology Scholarship** provides awards to students who are Anthropology majors and enrolled as full-time students.

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

**Captain Paul Vincent Vegna (USAF) Memorial Scholarship** awards to students enrolled in the National Security Studies Graduate Program.

**Catholic Charities Scholarship** provides scholarships to students enrolled in the Social Work program with a cumulative 3.0 GPA. Must demonstrate an interest in local nonprofit service organizations in San Bernardino Riverside counties. Financial need is preferred.

**College of Social & Behavioral Sciences Scholarship** provides scholarships to students enrolled in the College of Social and Behavioral Sciences.

**Craig and Jennifer Fuher National Security Studies Alumnus Scholarship** provides merit-based awards to students enrolled in the National Security Studies program.

**Donald W. Jordan Memorial Scholarships** 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** awards to student who is a declared economics major, have completed a minimum of 9 semester, or 12 quarter, units of economics course work with at least a 2.75 grade point average, have an overall grade point average of at least 2.75, have completed at least 30 semester, or 45 quarter, units of college course work; and be enrolled at CSUSB on at least a one-half time basis at time of receipt of the scholarship.

**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 Endowment** provides scholarships for Master students enrolled in I/O Psychology.

**Janczyk Scholarship** provides scholarships to students who are declared as an Economics major or an Administration major with a concentration in Business Economics; students must have a minimum GPA of 2.75 in their major and have completed at least 45 units of college coursework and 15 units of economic coursework.

**J.C. Robinson Scholarship** provides awards to students who are history majors.

**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.

**JoAnn Vance Memorial Scholarship** provides scholarships to full-time Sociology and Psychology students with a cumulative 3.0 GPA.

**Joanna Worthley Fund for Excellence in Psychology Endowment** provides scholarships for Psychology students in good academic standing.

**John and June Kennedy Economics Endowment** provides a scholarship to a student majoring in 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 and be enrolled at CSUSB on at least a one-half time bases at time of receipt of the scholarship.

**Joy Renee Kirka Memorial Scholarship** provides an award to a student enrolled in the Master of Science program in Psychology or Clinical Psychology.

**KB Home Scholarship** awards to students who are in Urban Planning Studies and have a minimum GPA of 3.0.

**Michael Khokhlov Scholarship** will be awarded to an undergraduate or graduate student currently enrolled in the Psychology program at CSUSB and have applied to a graduate program. Financial need and status as an Honors student (past or present) will be preferred.

**Mike Swank Fieldwork Scholarship** provides funding for fieldwork for full time undergraduate Anthropology students and for full-time graduate

students with an emphasis in Anthropology; students must have a letter of recommendation from a faculty member and submit a proposal about how the co-curricular activity will enhance their educational experience and must include a budget outline. Following the fieldwork, students must submit a summary of their experience.

**Ralph and Marie Weber Scholarship in National Security Studies** provides a scholarship to an outstanding CSUSB Political Science undergraduate or new graduate student entering the National Security Studies graduate program.

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

**Richard Garza Memorial Scholarship** provides awards to students who have declared the Paralegal Certificate program or the Criminal Justice major with a Paralegal option; must have a minimum 2.75 GPA, have completed at least 45 units of coursework and are enrolled at least half-time.

**Rick and Brenda Garcia Fund for Geography and Environmental Studies** grants scholarships for any Geography and Environmental Studies student in good academic standing. Awards may also be used for other purposes related to the mission, operation and function of the Geography and Environmental Studies Department such as providing funds for equipment purchases or for stipends for faculty, graduate or undergraduate student assistants of the department.

**Robert A. Claytor Memorial Scholarship** provides awards for a History major who is a junior or senior.

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

**Sean Brunse Economics Scholarship** provides an award to a student in a declared economics major with a cumulative 2.5 GPA. Eligible students must have completed a minimum of 9 semester or 12 quarter units of economics course work with at least a 2.75 grade point average. Students must have completed at least 30 semester units or 45 quarter units of college course work and be enrolled at CSUSB on at least a half-time basis at the time of receipt of the scholarship.

**Dr. Cheryl Riggs Student Award Fund** provides scholarships to first-generation college students majoring in History with a cumulative 3.0 GPA.

**Otis Brantley, Sylvester Carraway, Edward Futch Correctional Science Scholarship Fund** provides scholarships to Criminal Justice majors.

**Paula Laster-Vegna Endowed Fund** provides scholarships to students who are a History major, have at least a 3.0 GPA and are a first generation college attendee and/or an adult re-entry student.

**Thomas Zeugner Memorial Scholarship** provides scholarships to ROTC students.

**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** awards to a student with a Psychology major enrolled in the M.S. Clinical/Counseling Psychology Program, and must serve his/her 9 month internship at the

Moreno Valley Addiction Medicine-Chronic Pain Management dept with Kaiser Permanente.

**William Craig Green Scholarship** is awarded to one outstanding student who is enrolled in the Graduate program in National Security Studies. The next choice will be a student majoring in Political Science. Students are selected based on their academic merit and their participation in the National Security Studies program. Preference will given to active duty or military veterans or military dependents.

**Yolanda T. Moses Scholarship Endowment** provides scholarships to students pursuing their Masters degree in the College of Social and Behavioral Sciences.

#### **Scholarships Available to All Majors**

**Dianna J. Pelletier Resiliency Scholarship** provides scholarships to students on academic probation and signed an Advising and Academic Services Undergraduate Administrative Contract with a cumulative 3.2 GPA. Preference is given to students that do not receive Financial Aid.

**AFSSA Scholarship** provides scholarships to full-time students participating in the Asian Faculty Student and Staff Association with a 2.3 GPA.

**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.

**Association of Latino Faculty, Students and Staff** annually provides scholarships to students who have displayed an interest in Hispanic cultures. The minimum GPA is 2.5.

**Barbara and Don McKenzie Scholarship** provides scholarships to students who are first in their families to attend college. Preference is given to students who have completed a minimum of three years in their high school AVID program. Must have a cumulative 3.0 GPA.

**Barbara Taylor Scholarship** provides scholarships to Fontana residents who preferably are graduates of Fontana High School with a minimum 2.5 GPA who plan to continue their postsecondary education at CSUSB. Preference is given for financial need.

**Bernard C. Osher Re-Entry Scholarship** 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.

**Betty Barker President's Academic Excellence Scholarship** is awarded to a CSUSB student who is a Presidents Academic Excellence Scholarship (PAES) recipient and must comply with the criteria established under the PAES terms.

**Cal State Associates Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient, must comply with the criteria established under the PAES terms. Students must have financial need and are at sophomore, junior or senior level status.

**Cardenas Market LEAD Scholarship** provides scholarships to students who have financial need, minimum cumulative GPA of 3.0. Students must

demonstrate a commitment to the betterment of the Latino community. Preference is given to students who live near a Cardenas market.

**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.

**Children's Fund EOP Foster Youth Scholarship Fund** provides scholarships to foster youth students under the jurisdiction of the San Bernardino County Department of Children's Services or emancipated Foster Youth from San Bernardino County. Students must demonstrate financial need and be enrolled full-time.

**Clark and Marjorie Jones Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms.

**College of Extended Learning - International Extension Program Scholarship** provides awards to international students who have demonstrated excellent academic standing by attaining all A grades in ACLP studies in the previous academic term and by showing involvement in the program and extracurricular activities.

**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.

**CSUSB Alumni Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms.

**CSUSB Foundation Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and must comply with the criteria established under the PAES terms. Students must have financial need and are at sophomore, junior or senior level status.

**CSUSB Retirees Association Scholarship** provides scholarships to CSUSB students whose parents are employed by the university.

**Donald and Bonnie Blish Scholarship** is awarded to a CSUSB student with financial need who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms.

**Elsa Ochoa-Fernandez Phi Beta Delta Memorial Endowment** is awarded to students belonging to Phi Beta Delta and are studying abroad.

**Esperanza Scholarship Foundation** provides scholarships to graduates from Chaffey, Montclair or Ontario High school with a cumulative 3.5 GPA. Financial need is preferred.

**Fabiola Campos Scholarship** is awarded to a full-time student with a minimum 2.8 GPA, open to any major, and must be working 25 hours per week while attending CSUSB. First preference will be given to residents of Barstow or graduates of Barstow High School. Second preference will be given to transfer students or graduates of Barstow College and Victor Valley College. Third preference will be given to all other students.

**Faculty/Staff Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms. Students

must have financial need and are at sophomore, junior or senior level status.

**Felix G. Valdez J.D. Scholarship Endowment** provides scholarships to students that participate or demonstrate an interest in university and/or community. Must have a minimum 3.0 GPA and an interest in creative writing, pre-law, health or business. Financial need is preferred.

**Firefighters/Law Enforcement Personnel Scholarship** provides scholarships to students that are employed as a fire fighter, law enforcement or non-hospital emergency personnel.

**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.

**Friends of John Futch Textbook Scholarship** provides book scholarships to students with a GPA between 2.0-2.75, preference for community service involvement and first generation college student and at least 1/3 of awardees being EOP students. Students who demonstrate an awareness of global citizenship and the importance of a diverse society are given preference.

**Gloria Negrete McLeod President's Academic Excellence Scholarship** provides scholarships to President's Academic Excellence students who reside in Fontana, Chino, Guasti, Ontario or Bloomington and complies with the criteria established under the PAES terms.

**Inland Empire United Way Service Learning Scholarship** provides awards to students enrolled in the Bachelors of Art in Social Work program in the College of Social and Behavioral Sciences and participating in a nonprofit field placement during the time of the scholarship. Must have a minimum GPA of 3.0 and demonstrates an interest in a career in the local nonprofit service organizations in San Bernardino or Riverside counties.

**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.

**Judy Killgore Staff Scholarship** provides scholarships to CSUSB permanent or temporary employees seeking their first undergraduate degree. Students must be enrolled in four or more units and have a minimum 3.0 GPA.

**Kronowitz Family Scholarship** provides scholarships to students enrolled at the senior level planning on applying to law school. Students must be enrolled in at least 6 units.

**Lawrence L. Daniels Scholarship** provides awards to students involved in the African-American community, have a minimum 2.5 GPA and is enrolled in 10 units or more.

**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.

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

**Marracino-Ghazal Family Scholarship** provides scholarships to juniors or seniors with financial need enrolled in pre-health and are planning on a health care career. Students must have a minimum 3.0 GPA with their declared major and an overall GPA of 2.75.

**Metro City Church Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms.

**Molly Adams Expendable Scholarship** provides scholarships to students who have a mental, physical or learning disability/impairment. Students must be permanent residents of Riverside or San Bernardino Counties.

**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://mntnscholarships.csusb.edu>) web site. (see "Scholarship>Application.")

**Nick and Christina Zaharopoulos Scholarship** provides scholarships to juniors or seniors with at least a B average. Preference to students who are non U.S. citizens or first in their family to go to college. Students must have financial need and intend to enter civil service or non-profit work. Preference for transfer students.

**Norman Lofthus Bright Vistas Scholarship** provides scholarships to support foster youth students who may or may not be enrolled EOP Renaissance Scholarships attending the Palm Desert Campus. Students must have a minimum GPA of 2.5 and demonstrated financial need. Students must have a history of volunteerism and/or community service.

**Ochoa and Fernandez Family Study Abroad Endowment** is awarded to students studying abroad with a cumulative 3.2 GPA. Financial need is preferred.

**Paul and Evelyn Magnuson Scholarship** is awarded to a CSUSB student who is a President's Academic Excellence Scholarship (PAES) recipient and complies with the criteria established under the PAES terms. Preference goes to students enrolled as a music or sciences major.

**President Albert and Marilyn Karnig Scholarship** is awarded to CSUSB students who are a President's Academic Excellence Scholarship (PAES) recipients and complies with the criteria established under the PAES terms.

**Presidential 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.

**Rasmussen Scholarship for Anthropology** provides scholarships to students interested in Native American studies, veterans and children of veterans. Financial need is preferred.

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

**San Manuel Band of Mission Indians Scholarship** is provided to students who are enrolled at CSUSB in a minimum of twelve (12) units for undergraduate students and eight (8) units for graduate students,

have and maintain a minimum GPA of 2.5 at the undergraduate level or 3.25 at the graduate level. Highest preference will be given to students who express an interest in the study of Indian culture, finance, policy, government and/or infrastructure. Students seeking to renew scholarships will be asked to demonstrate through course work, individual instruction, and through the topics of research papers, their focus on the subject areas outlined above.

**Stanford C. Shaw Memorial Scholarship** provides scholarships to students demonstrating academic ability and financial need.

**Student Veterans Success Initiative Scholarship** provides scholarships for sophomore, junior or senior student veterans. Must be a veteran, service member, ROTC cadet or family member. Applicants must have a minimum 3.0 GPA and be enrolled at CSUSB full time.

**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.

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

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

**Yin Family Scholarship** provides scholarship support for students who are members of Phi Beta Delta, Asian Faculty Staff and Student Association or students wishing to study abroad in Taiwan or who are coming to CSUSB to study.

**Zapletal Charitable Trust Scholarship** offers awards to students with preference given if they meet one or more of the following criteria: have financial need, are academically deserving, whose spouse or parent have been wounded in the line of service, whose parents are veterans or retired from military service, who are veterans themselves or who are junior or senior students enrolled in the Army ROTC or Air Force ROTC program.

#### Scholarships for Student Athletes

**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 students with financial need.

**Chen-Maynard Athletic Scholarship** provides scholarships to students who are involved with Athletics to CSUSB.

**Chuck and Shelby Obershaw Student Athlete of the Year Scholarship** provides a scholarship to a female and male CSUSB athlete who has a cumulative 3.0 GPA. Financial need is preferred.

**Doyle and Ann Varner Memorial Scholarship** is awarded to a full-time student who is a participating member of one of the university's intercollegiate athletics programs. Students must have a cumulative 3.25 GPA. Preference shall be given to students majoring in the College of Business and Public Administration.

**Hatcher-Wright Scholarship Endowment** provides scholarships to CSUSB athletes, who maintain a cumulative 2.7 GPA. Preference is given to financial need.

**Matich Family Scholarship** provides scholarship support for students participating in CSUSB's Intercollegiate Athletics program.

**Rezek-Lemann Scholarship Endowment** provides scholarship support for students participating in CSUSB's Intercollegiate Athletics program with a cumulative 2.5 GPA.

**Sigma Pi Phi Scholarship** provides scholarships to students who are involved with Athletics to CSUSB.

**Soffa Family Scholarship Endowment** provides scholarships to student athletes that demonstrate a financial need with a cumulative 2.7 GPA.

**Vance and Rico Garcia Fund for Athletics** provides scholarships to CSUSB student athletes.

**Warren Ludi Scholarship** provides scholarship support to student athletes in good academic standing playing Basketball.

**William E. Leonard Memorial Basketball Scholarship** provides scholarships to students who are involved with Athletics to CSUSB.

#### **Scholarships for Students Attending the CSUSB Palm Desert Campus**

**Betty Barker Scholarship** provides scholarships to full-time students that are enrolled in the Palm Desert Campus. Must have a cumulative 3.0 GPA and demonstrates an interest in becoming a teacher.

**City of Palm Desert President Albert Karnig Academic Excellence Scholarship Endowment** provides awards to full-time undergraduate students enrolled at CSUSB's Palm Desert Campus with a minimum GPA of 3.5.

**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 applicant's noble characteristics of service to others and commitment to their profession.

**CSUSB Palm Desert Campus Dream Scholarship Fund** provides scholarships to full-time California Dream Act students and/or first generation college students with a cumulative 2.6 GPA.

**CSUSB PDC Associates Scholarship** provides scholarships to full-time PDC students with a cumulative 3.0 GPA.

**Ernie Ball Inc. Scholarship** 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.

**Grammar Bee/Jane Strauss Memorial Scholarship** provides scholarships to full-time PDC undergraduate students majoring in English with a cumulative 3.0 GPA.

**H.N. and Frances C. Berger Foundation 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.

**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 Masters 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 Athena Scholarship** provides scholarships to PDC students with a cumulative 3.0 GPA.

**Palm Desert Campus Lou Fernandez Scholarship** provides scholarships to undergraduate students with a cumulative 2.0 GPA.

**Palm Desert Campus 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** provides 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.

**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.

**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.

## **Off-Campus Scholarships**

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

**Army ROTC 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 [jmcb@csusb.edu](mailto:jmcb@csusb.edu).

**Gates Millennium Scholars Program (GMS)** (<http://www.gmsp.org>)

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

**SAP America Scholarship Program.** This program recognizes outstanding undergraduate students pursuing a degree in business, computer science, mathematics, or engineering. To learn more about the program and its requirements, visit their website. To apply for the scholarship program, visit the application site Scholarship Application. To be considered, applicants are required to submit the completed application, current transcript, resume, paper, and letter of recommendation following the directions listed in Program Requirements, to [citizenship.usa@sap.com](mailto:citizenship.usa@sap.com) (<http://citizenship.usa@sap.com>).

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

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

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

**John Gyles Education Awards** are available to U.S. citizens, must have minimum 2.7 GPA and have financial need. Visit the John Gyles Education Awards website (<http://www.collegexpress.com/scholarships/john-gyles-education-award/16936>) to apply.

The **Paying for College Resource Guide** is provided by congresswoman Lucille Roybal-Allard's District office. Constituents of the 34th District may

request hardcopies to be mailed to them directly. This directory is updated once a year. Please check with each scholarship contact or website for the most current information.

## 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** 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 Office of Financial Aid & Scholarships 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 (<http://www.ftc.gov>) 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.

# Academic Regulations and Standards

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

No student may attend classes unless officially registered and appropriate fees have been paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses under their name on the schedule confirmation list, except those courses they officially change through My Coyote Self Service.

## Class Level of Students

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

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

## SOAR (Student Orientation, Advising & Registration)

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

SOAR, stands for Student Orientation, Advising & Registration, and is CSUSB's new student orientation program that is required for all newly admitted undergraduate students to attend. It is much more than just choosing classes or taking a campus tour. It's an opportunity to meet other new students, review academic choices with advisors, learn how to be a successful student at CSUSB, and learn what it means to be a Coyote.

SOAR provides you with key resources and tools to help ease the transition into the CSUSB community as you bond with other new students, fellow upper classmen, and you're Orientation Leaders. Through workshops, discussions, guest speakers and special events, this experience will prepare you 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 degree applicable 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) assessment in order to select the appropriate English composition course. Students may choose to enroll in any of the five 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 165, 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://rre.csusb.edu/misc/documents/ConcurrentEnrollmentOct10.pdf>) with the Office of the Registrar 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 California Community Colleges, or other local institutions with which articulation agreements are in place. Upon completion of the course(s), the student must request that 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 or desired programs or admission categories are closed. 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 t (<http://rre.csusb.edu>)he Registrar (<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 in (and complete) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB. Credit earned at the host campus is reported to the home campus to be included on the student's transcript at the home campus.

**CSU Intrasystem Visitor Enrollment.** Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus. Students attending CSUSB on I-20 visas are not eligible for this program.

**Intersystem Cross Enrollment.** Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC or community college and request that a transcript of record be sent to the home campus. Students attending CSUSB on I-20 visas are not eligible to attend community college. They may participate in this program and attend a CSU or UC, but must be concurrently enrolled in (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 in (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 for 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 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 the Registrar 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 the quarter except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides.

For questions concerning this policy, contact the Office of the Registrar at (909) 537-5200.

## Adding a Closed Class

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

## Retroactive Add

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

## Drops and Withdrawals

Beginning Fall quarter 2009, undergraduate students may not exceed 28 quarter units of withdrawals (grade of "W"). Withdrawals completed prior to Fall 2009 are not included in this total. This limit applies only to courses taken at CSUSB, including courses taken through Open University, the College of Extended Learning and special sessions. The policy for all undergraduate students will be available at the 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. 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.

## Withdrawing from Classes

### Withdrawal from classes after Census Date

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

Withdrawals after Census Date and through the end of the eighth week of the quarter are permitted only for serious and compelling reasons. See the Summer 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 the course(s). Poor performance or poor attendance in the course is not an acceptable reason to withdraw from a course during this period.

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

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

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

### Excessive or Unauthorized Withdrawal

Students who do not officially withdraw or who exceed the 28 unit maximum will receive a grade notation of "WU" (withdrawal unauthorized) in the course, which for purposes of grade point averages is equivalent to an "F." Students receiving a "WU" are still subject to fees for the courses. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses not officially dropped, and the need to petition for readmission before being permitted to enroll in another academic term.

## Term Withdrawal from All Classes

Students who find it necessary to withdraw from all classes after enrolling for any academic term are required to follow the University's official Term Withdrawal procedures outlined in the *Class Schedule*. Beginning ten days prior to the start of the quarter, these withdrawals must be processed in person in the Office of the Registrar, 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(s) is not an acceptable reason to withdraw during this period.

Petitions to withdraw after Census Date are available in the offices of the five Colleges for declared majors and in Advising and Academic Services, UH-380, for undeclared students. Withdrawals during this period will require written documentation along with the signature of the instructor, the department chair or school director of the class, and the Dean of the College of the student's major. All courses officially withdrawn during this time period will show a grade notation of "W" (withdrawn) on the student's transcript for the dropped course(s). Students receiving a "W" are still subject to fees for the courses.

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

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

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

## Retroactive Term Withdrawal

Requests for retroactive term withdrawals shall be permitted for serious and compelling reasons, such as accident or serious illness, where the cause of withdrawal was due to circumstances clearly beyond the student's control and an Incomplete was not assigned. Extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Documentation is required. Poor performance or poor attendance in the course(s) 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 classes 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 the Registrar 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 the Registrar (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 the Registrar to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised GE 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 the Registrar 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>)

Questions regarding the Student Academic Grade Grievance Procedures are available from Advising & Academic Services, University Hall, Room 380, 909-537-5034, or from the website.

A student may appeal a final course grade or a grade on a Comprehensive Examination or a project (e.g., art exhibition) or thesis required for graduation. An appeal may be initiated on the basis of:

1. Clerical error
2. Capricious or prejudicial evaluation
3. Inconsistent or inequitably applied standards for evaluation

Students may also appeal other types of academic decisions. These include, but are not limited to:

1. Denial of Admission to or Dismissal from a course, major or program
2. Placement on Academic Probation
3. Suspension or Dismissal from the university

A simple allegation or unsubstantiated assertion is an insufficient basis for lodging a formal complaint. Students must support their allegations with evidence compelling enough to give the Academic Grievance Committee reason to hold a formal hearing.

## Grades

The grade symbols used at the university are as follows:

Grade symbol	Performance level	Grade points per quarter hour
--------------	-------------------	-------------------------------

A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Passing	1.0
D-		.7
F	Failing	.0
WU	Withdrawal Unauthorized	.0
U	Unauthorized Incomplete	.0
I	Incomplete Authorized	.0
IC	Incomplete Charged	.0
RP	Report in Progress	
SP	Satisfactory Progress	
CR	Credit	
NC	No Credit	
CBE	Credit by Exam	
CBX	Credit by Exam (Remedial Course)	
AU	Audit	
RD	Report Delayed	
W	Withdrawn	
WF	Withdrawn Failing	.0
FW	Failed, Withdrew	.0
UW	Unofficial Withdrawal	.0

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

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

The following administrative grades carry no grade points and are, therefore, not used to determine a student's grade point average. However, it should be pointed out that the Incomplete will be 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.

CBE	Credit by Examination
CBX	Credit by Examination/Remediation
CR	Credit
I	Incomplete (Authorized)
NC	No Credit
RD	Report Delayed
RP	Report in Progress

SP	Satisfactory Progress
W	Withdrawal

## Expanded Grade Symbol Definitions

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

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

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

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

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

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

**NC (No Credit):** Performance at an unsatisfactory or failing level, equivalent to a grade of "C-" (1.7) or less. For graduate courses, equivalent to a grade of less than "B-" (2.7). Does not award credit for the course or affect grade point average.

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

**CBX (Credit by Exam/Remediation):** This symbol indicates that a student has successfully passed a remedial course through an examination. Does not award units earned toward a degree. It is not included in the calculation of grade point average.

**I (Incomplete):** An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated. Students may not re-enroll in a course for which he or she has received an "I" until that "I" has been converted to a grade other than "I", e.g., A-F, IC, or NC.

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

Students may not receive an "I" grade in any applicable degree course for the term in which their graduation check is filed. Students will be required to refile their 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 the Registrar and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in the calculation of grade point averages.

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

**W (Withdrawal):** The symbol W indicates that the student was permitted to withdraw from the course after the 15th day of instruction with approval of the instructor and appropriate campus officials. It carries no connotation of quality of performance and is not used in calculating grade point average. For withdrawal limits, see the class schedule or 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, excepting that all units accepted for transfer credit from another institution at the time of the student's admission to the university may be used toward the satisfaction of the total units required for the baccalaureate degree. Acceptance for transfer credit by California State University, San Bernardino of 36 quarter units or more graded credit/no credit at another institution or institutions precludes the student from taking 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 from further attendance 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 from further attendance 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 from further attendance 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. 60).

## 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.

## Civil and Criminal Penalties for Violation of Federal Copyright Laws

Anyone who is found to be liable for copyright infringement may be ordered to pay either actual damages suffered as a result of the infringement along with any profits of the infringer attributable to the infringement that are not already taken into account in computing the actual damages, or "statutory" damages between \$750 and \$30,000 per work infringed. In the case of a "willful" infringement, a court may award up to \$150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys' fees to the prevailing party. (See 17 U.S.C. §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. Criminal penalties may vary depending on the nature of the offense and whether the infringer has previously been convicted of criminal copyright infringement under 18 U.S.C. §2319. (See 17 U.S.C. §506 and 18 U.S.C. §2319.)

## 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://rre.csusb.edu/misc/documents/ChangeofMajorMay2011.pdf>) through the Office of the Registrar. 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>) at the Office of the Registrar (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 the Registrar.

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

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

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

The Office of the Registrar 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 the Registrar 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 the Office of the Registrar 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 the Registrar and require a \$25 processing fee.

## Commencement

Special Events and Guest Services- Commencement Office  
(909) 537-7360

Participation in commencement activities is voluntary.

For dates and deadlines please visit [commencement.csusb.edu](http://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 the Registrar.

## 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. 86) 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 the Registrar once the hold has been lifted so that the transcript request can be processed.

## Access to Records

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

## Enrollment Verification

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

Full time	12 weighted units
3/4 time	9-11 units
1/2 time	6-8.5 units

## 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 the Registrar.

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

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

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

## 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).

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

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

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

### **TITLE IX AND GENDER EQUITY office**

The office of Title IX and Gender Equity oversees the Title IX responsibilities on campus. Title IX is government legislation from the Department of Education's Office of Civil Rights. It "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 and violence, which are forms of sex discrimination, and discrimination or retaliation by students, staff, faculty, Third Parties and applicants by investigating complaints or allegations of sex/gender/sexual orientation discrimination, harassment or retaliation and acts of sexual violence, while using a variety of CSU Executive Orders, complaint processes and policies, as well as raise awareness on campus.

Each campus must have a Title IX Coordinator to implement the CSU protocol regarding Title IX by: (1) Upholding the university's obligation to respond to sexual harassment, gender harassment and sexual violence; (2) Following CSU policies and complaint procedures; (3) Working with designated CSUSB personnel; (4) Offering resources and remedies for victims; and (5) Providing education and training for the campus at large.

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 immediately by dialing 9-1-1 or contacting University Police at (909) 537-7777. The Title IX Coordinator will work with the police on cases which are reported to them. A campus administrative investigation may occur concurrently with a criminal investigation.

**What to report:** All allegations of discrimination, harassment or retaliation based on sex, gender or sexual orientation which are made against staff, faculty, students, applicants or other Third Parties associated with the campus. The Title IX Coordinator will discuss the situation and explain the campus process, including what complaint procedures are available.

**If you would like to submit a complaint, or a concern, go to our website at <http://titleix.csusb.edu> and click on the "File a report here" button at the top of the page,** or you may send an email to [titleix@csusb.edu](mailto:titleix@csusb.edu), or call us at (909) 537-5669 or come to our office, located in the Santos Manuel Student Union, Room 103-A.

For Employee or Third Party complaints regarding discrimination, harassment and retaliation allegations **not** on the basis of sex, please see Executive Order 1096 and its Attachments (<http://www.calstate.edu/eo/EO-1096.pdf>), or visit our website for additional information (<http://titleix.csusb.edu>).

Check with our office **first** to ensure that your case is handled appropriately and that you are utilizing the correct complaint procedure. Additionally, if you have any questions, need clarification, need resources (on **or** off campus), or are interested in upcoming events and trainings, please get in touch with us:

### **Campus Title IX Coordinator**

**Cristina Martin**, Director for Title IX & Gender Equity

California State University, San Bernardino

5500 University Parkway

Santos Manuel Student Union, 103-A

San Bernardino, CA 920407-2393

Email: [titleix@csusb.edu](mailto:titleix@csusb.edu) or [cristina.martin@csusb.edu](mailto:cristina.martin@csusb.edu)

Website: <http://titleix.csusb.edu>

Phone: (909) 537-5669

Fax: (909) 537-7344

Regular office hours: Monday-Friday, 8:00 AM-4:30 PM

Summer office hours: Monday-Thursday, 7:00 AM-5:30 AM  
(closed Fridays)

## 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 VI 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. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097.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.

### 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. 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 the basis of disability. Inquiries concerning compliance may be presented to this person at Human Resources, Sierra Hall, Room 110, (909) 537-5138. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097.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.

### 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. Cristina Martin, Director for Title IX 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 her at Title IX and Gender Equity, Santos Manuel Student Union, Room 103-A, (909) 537-5669. 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** means an adverse act taken against an individual because of gender or sex (including sexual harassment, sexual violence, domestic violence, dating violence, and stalking) 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**, a form of sex discrimination, 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 includes submission to, or rejection of, where the conduct is explicitly or implicitly used as the basis for any decision affecting an individual's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University. Sexual harassment also includes gender-based harassment, which may include acts of verbal, nonverbal 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** is a form of sexual harassment and means physical sexual acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, domestic violence, dating violence, and stalking (when based on gender or sex) perpetrated against an individual against his or her will and without consent or against an individual who is incapable of giving consent due to that individual's use of drugs or alcohol, status as a minor, or disability. Sexual violence may include physical force, violence, threat, or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication). Men as well as women can be victims of these forms of sexual violence. Unlawful sexual intercourse with a minor (statutory rape) occurs even if the intercourse is consensual when the victim is under 18 years old, because the victim is considered incapable of giving legal consent due to age.
- **Sexual Assault** is a form of sexual violence and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.
- **Sexual Battery** is a form of sexual violence and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex.
- **Rape** is a form of sexual violence and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/ he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The accused's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant. (See complete definition of consent below.)
- **Acquaintance Rape** is a form of sexual violence committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website. (See above for definition of rape.)
- **Consent** means an informed, affirmative, conscious decision by each participant to engage in mutually agreed-upon sexual activity.



- Consent must be **voluntary**, and given without coercion, force, threats, or intimidation. Consent requires positive cooperation in a particular sexual act, or expression of intent to engage in that sexual act through the exercise of free will.
- Consent can be **withdrawn or revoked**. Consent to one form of sexual activity (or one sexual act) does not constitute consent to other forms of sexual activity (or other sexual acts). Consent to sexual activity given on one occasion does not constitute consent to sexual activity on another occasion. The fact that two people are or were in a dating or sexual relationship does not constitute consent to engage in sexual activity. There must **always** be mutual and affirmative consent to engage in sexual activity. Consent to a sexual act may be withdrawn or revoked at any time, including after penetration. The victim's request for the perpetrator to use a condom or birth control does not, in and of itself, constitute consent. Once consent is withdrawn or revoked, the sexual activity must stop immediately.
- Consent cannot be given by a person who is **incapacitated**. For example, a person cannot give consent if s/he is unconscious or coming in and out of consciousness. A person is *incapacitated* if s/he lacks the physical and/or mental ability to make informed, rational judgments. Examples of incapacitation include unconsciousness, sleep and blackouts. Whether an *intoxicated* person (as a result of using alcohol or other drugs) is *incapacitated* depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments. A person with a medical or mental disability may also lack the capacity to give consent.
- Being intoxicated by drugs or alcohol does not diminish a person's responsibility to obtain consent from the other party before engaging in sexual activity. Factors to be considered include whether the person knew, or whether a reasonable person in the accused's position should have known, that the victim did not give, or revoked, consent; was incapacitated; or was otherwise incapable of giving consent.
- Sexual intercourse with a minor is never consensual when the victim is under 18 years old, because the victim is considered incapable of giving legal consent due to age.
- **Domestic Violence** is a form of sexual violence and is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the abuser has a child, someone with whom the abuser has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. Factors that may determine whether persons are cohabiting include, but are not limited to (1) sexual relations between the parties while sharing the same living quarters, (2) sharing of income or expenses, (3) joint use or ownership of property, (4) whether the parties hold themselves out as husband and wife, (5) the continuity of the relationship, and (6) the length of the relationship.
- **Dating Violence** is a form of Sexual Violence and is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website.
- **Stalking** means a repeated course of conduct directed at a specific person that places that person in reasonable fear for his/her or others' safety, or to suffer substantial emotional distress.
- See further information in CSUSB's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice, at <http://policies.csusb.edu/students.html> and <http://titleix.csusb.edu/resources/index.html>.

For any more current information, please go to <http://titleix.csusb.edu/index.html>.

## 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 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

**Cristina Martin**, Director for Title IX & Gender Equity  
 California State University, San Bernardino  
 5500 University Parkway  
 Santos Manuel Student Union, 103-A  
 San Bernardino, CA 920407-2393  
 Email: [titleix@csusb.edu](mailto:titleix@csusb.edu) or [cristina.martin@csusb.edu](mailto:cristina.martin@csusb.edu)  
 Website: <http://titleix.csusb.edu>  
 Phone: (909) 537-5669  
 Fax: (909) 537-7344  
 Regular office hours: Monday-Friday, 8:00 AM-4:30 PM  
 Summer office hours: Monday-Thursday, 7:00 AM-5:30 AM  
 (closed Fridays)

### University Police

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

### Local Police

San Bernardino Police Department  
 710 North "D" Street, San Bernardino, CA 92401  
 Phone: (909) 384-5742; Non-Emergency 24-Hour: (909) 383-5311

Palm Desert Police Department  
 73705 Gerald Ford Drive, Palm Desert, CA 92260  
 Phone: (760) 836-1600

### U.S. Department of Education, Office for Civil Rights

(800) 421-3481 or [ocr@ed.gov](mailto:ocr@ed.gov)

- If you wish to fill out a complaint form online with the OCR, you may do so at: <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, as well as provide training, education and preventive measures related to sex discrimination. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097.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. (See confidential reporting options outlined below.)

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 1098 at <http://www.calstate.edu/EO/EO-1098.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.

## Confidentiality and Sexual Violence, Dating Violence, Domestic Violence and Stalking

The University encourages victims of sexual violence, dating violence, domestic violence, or stalking (collectively Sexual Violence) to talk to someone about what happened – so they can get the support they need, and so the University can respond appropriately. Whether – and the extent to which – a University employee may agree to maintain confidentiality (and not disclose information to the Title IX Coordinator) depends on the employee's position and responsibilities at the University. The following information is intended to make victims aware of the various reporting and confidential disclosure options available to them – so they can make informed choices about where to turn for help. The University strongly encourages victims to talk to someone identified in one or more of these groups. Certain University employees, listed below, are required by law to maintain near or complete confidentiality; talking to them is sometimes called a "privileged communication." University law enforcement employees may maintain the victim's identity as confidential, if requested by the victim, but will report the facts of the incident to the Title IX Coordinator, including the identity of the perpetrator. Most other University employees are required to report all details of a Sexual Violence incident (including the identities of both the victim and alleged perpetrator) to the Title IX Coordinator so the University can take immediate action to protect the victim, and take steps to correct and eliminate the cause of Sexual Violence. University Police, the Title IX Coordinator, University-employed physicians, professional counselors, sexual assault and domestic violence counselors and advocates, and certain other University employees are required to explain to victims their rights and options with respect to confidentiality.

## Privileged and Confidential Communications

*Physicians, Psychotherapists, Professional Counselors and Clergy* – Physicians, psychotherapists, professional, licensed counselors, and clergy who work or volunteer on or off campus, and who provide medical or mental health treatment or counseling (including those who act in that role under their supervision) may not report any information about an incident of sexual violence to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, and clergy without triggering a University investigation that could reveal the victim's identity or the fact of the victim's disclosure. *However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.*

*Sexual Assault and Domestic Violence Counselors and Advocates* – Sexual assault and domestic violence counselors and advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers, and health centers (including all individuals who work or volunteer in these centers and offices, as well as non-professional counselors or advocates, and those who act in that role under their supervision) may talk to a victim without revealing any information about the victim and the incident of sexual violence to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from these counselors and advocates without triggering a University investigation that could reveal his/her identity or that a victim disclosed an incident to them. *However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law*

enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The University will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to (1) speak only to a physician, professional counselor, clergy member, sexual assault counselor, domestic violence counselor or advocate; and (2) maintain complete confidentiality. Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability, medical/health or mental health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the University and a separate complaint with local or University police. If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: University academic support or accommodations; changes to University-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the University or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the University will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if it occurs.

**EXCEPTIONS:** Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if he or she provides medical services for a **physical condition** to a patient/victim who he or she knows or reasonably suspects is suffering from (1) a wound or physical injury inflicted by a firearm; or (2) any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including Sexual Violence, Domestic Violence, and Dating Violence). This exception does **not** apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, **all** professionals described above (physicians, psychotherapists, professional counselors, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to (1) local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; or (2) to the court if compelled by court order or subpoena in a criminal proceeding related to the Sexual Violence incident. If applicable, these professionals will explain this limited exception to victims.

## Reporting to University or Local Police

If a victim reports to local or University Police about sexual violence, the police are required to notify victims that their names will become a matter of public record **unless confidentiality is requested**. If a victim requests that his/her identity be kept confidential, his/her name will not become a matter of public record and the police will not report the victim's identity to anyone else at the University, including the Title IX Coordinator. University Police will, however, report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator

victim names/identities or compromise their own criminal investigation. The University is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the University will report the **type** of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

## Reporting to the Title IX Coordinator and Other University Employees

Most University employees have a duty to report sexual violence incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual violence incident, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. **In all cases, the University strongly encourages victims to report sexual violence directly to the campus Title IX Coordinator.** As detailed above in the Privileged and Confidential Communications section of this policy, all University employees **except** physicians, licensed counselors, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any sexual violence incidents of which they become aware. The University will need to determine what happened – and will need to know the names of the victim(s) and the perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other University employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual violence incident except as otherwise required by law or University policy. A Sexual Violence report may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, University policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual violence. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on Privileged and Confidential Communications above, no University employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another University employee that his/her identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request and guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order

1095 for further details around confidential reporting, and other related matters (<http://www.calstate.edu/EO/EO-1095.pdf>).

## Myths and Facts About Sexual Violence

### 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) may be incapable of giving consent. Whether an *intoxicated* person (as a result of using alcohol or other drugs) is *incapacitated* depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments.
- No one deserves to be sexually assaulted, stalked or victimized in any way.
- Don't engage in any behavior that may be considered Sexual Violence, Domestic Violence, Dating Violence, 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 Sexual Violence, Domestic Violence, Dating Violence, 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 Violence 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

1. **Myth:** Victims provoke sexual assaults when they dress provocatively or act in a promiscuous manner.  
**Fact:** Rape and Sexual Violence 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.
2. **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.
3. **Myth:** It is not Sexual Violence 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.**
4. **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 Violence can occur in both heterosexual and same-gender relationships.
5. **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 Violence can occur at any time, in many places, to anyone.

6. **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.
7. **Myth:** All Sexual Violence 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 Violence 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 Violence does not mean it did not happen.
8. **Myth:** Only young, pretty women are assaulted.  
**Fact:** The belief that only young, pretty women are sexually assaulted stems from the myth that Sexual Violence is based on sex and physical attraction. Sexual Violence 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.
9. **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.
10. **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.

## Sexual Violence - Risk Reduction Tips

Sexual Violence is a form of Sexual Harassment and means physical sexual acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, domestic violence, dating violence and stalking (when based on gender or sex), perpetrated against an individual against his or her will and without consent or against an individual who is incapable of giving consent due to that individual's use of drugs or alcohol, status as a minor, or disability.<sup>1</sup> Sexual Violence may include physical force, violence, threat, or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs

or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication).

Men as well as women can be victims of these forms of Sexual Violence. Unlawful sexual intercourse with a minor (statutory rape) occurs even if the intercourse is consensual when the victim is under 18 years old, because the victim is considered incapable of giving legal consent due to age.

### ***“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.
- In an emergency, call 9-1-1.

### ***“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, Acquaintance Rape, Sexual Assault, Sexual Battery and Consent

**Rape** is a form of Sexual Violence, and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The accused's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.<sup>2</sup> (See complete definition of Consent below.)

**Acquaintance Rape** is a form of Sexual Violence committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website. See above for definition of Rape.

**Sexual Assault** is a form of Sexual Violence and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.<sup>3</sup>

**Sexual Battery** is a form of Sexual Violence and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex.<sup>4</sup>

**Consent** means an informed, affirmative, conscious decision by each participant to engage in mutually agreed-upon sexual activity.

- Consent must be **voluntary**, and given without coercion, force, threats, or intimidation. Consent requires positive cooperation in a particular sexual act, or expression of intent to engage in that sexual act through the exercise of free will.
- Consent can be **withdrawn or revoked**. Consent to one form of sexual activity (or one sexual act) does not constitute consent to other forms of sexual activity (or other sexual acts). Consent to sexual activity given on one occasion does not constitute consent to sexual activity on another occasion. The fact that two people are or were in a dating or sexual relationship does not constitute consent to engage in sexual activity. There must **always** be mutual and affirmative consent to engage in sexual activity. Consent to a sexual act may be withdrawn or revoked at any time, including after penetration. The victim's request for the perpetrator to use a condom or birth control does not, in and of itself, constitute consent. Once consent is withdrawn or revoked, the sexual activity must stop immediately.
- Consent cannot be given by a person who is **incapacitated**. For example, a person cannot give consent if s/he is unconscious or coming in and out of consciousness. A person is **incapacitated** if s/

he lacks the physical and/or mental ability to make informed, rational judgments. Examples of incapacitation include unconsciousness, sleep and blackouts. Whether an *intoxicated* person (as a result of using alcohol or other drugs) is **incapacitated** depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments. A person with a medical or mental disability may also lack the capacity to give consent.

- Being intoxicated by drugs or alcohol does not diminish a person's responsibility to obtain consent from the other party before engaging in sexual activity. Factors to be considered include whether the person knew, or whether a reasonable person in the accused's position should have known, that the victim did not give, or revoked, consent; was incapacitated; or was otherwise incapable of giving consent.
- Sexual intercourse with a minor is never consensual when the victim is under 18 years old, because the victim is considered incapable of giving legal consent due to age.

In order for a sexual act to be considered rape or sexual assault, the act must be non-consensual.

Crimes of a sexual nature may be reported to campus or local law enforcement in addition to being reported administratively on campus to the Title IX Coordinator. **Both men and women can be victims of rape or sexual assault.**

## What is Dating Violence or Domestic Violence?

**Domestic Violence** is a form of Sexual Violence, and is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the abuser has a child, someone with whom the abuser has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. Factors that may determine whether persons are cohabiting include, but are not limited to (1) sexual relations between the parties while sharing the same living quarters, (2) sharing of income or expenses, (3) joint use or ownership of property, (4) whether the parties hold themselves out as husband and wife, (5) the continuity of the relationship and (6) the length of the relationship.<sup>5</sup>

**Dating Violence** is a form of Sexual Violence, and is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim.<sup>6</sup> This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website.

## 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.

## What Dating/Domestic Violence Looks Like

Any actions used for the intent of gaining power and control over a person:

- **Physical Abuse:** any 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 his/her sexual activity or the circumstance in 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, 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 control over my access to financial resources.
- Tells me what to do.
- Possessiveness.
- Physically hurts me in any way.

## Stalking

**Stalking** means a repeated course of conduct directed at a specific person (when based on gender or sex) that places that person in reasonable fear for his/her or others' safety, or to suffer substantial emotional distress.<sup>7</sup>

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

- **In an emergency, call 9-1-1** or University Police or the local police department.
- 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 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. 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.
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice, <http://ovc.ncjrs.gov/topic.aspx?topicid=27>
- National Institute of Justice: Intimate Partner Violence; Office of Justice Programs, United States Department of Justice, <http://www.nij.gov/topics/crime/intimate-partner-violence/Pages/welcome.aspx>
- National Domestic Violence Hotline: 1-800-799-SAFE (7233), <http://www.thehotline.org>
- Office of Violence Against Women, United States Department of Justice, <http://www.justice.gov/ovw>
- Center for Disease Control and Prevention: Intimate Partner Violence, <http://www.cdc.gov/ViolencePrevention/intimatepartnerviolence/index.html>
- Defending Childhood, United States Department of Justice, <http://www.justice.gov/defendingchildhood>
- Rape Abuse & Incest National Network (RAINN), (800) 656-HOPE (4673), [www.rainn.org](http://www.rainn.org)
- San Bernardino Sexual Assault Services, 24-Hour Crisis Hotlines (800) 656-4673 (toll-free) or (909) 885-8884; Main Office: 444 North Arrowhead Avenue, Suite 101, San Bernardino, CA 92401-1221, (909) 885-8884; Satellite offices: Coachella Valley/Indio (760)568-9071; Morongo Basin/Yucca Valley (760) 369-3353; Redlands (909) 335-8777; Victorville (760) 952-0041; Yucaipa (909) 790-9374; <http://www.sbsas.org>
- Alternatives to Domestic Violence (ADV), Crisis Line—Riverside city & out of the county (951) 683-0829, remainder of Riverside county (800) 339-SAFE (7233); domestic violence help; protective order assistance; counseling; outreach; shelter; <http://www.alternativestodv.org/aboutus.html>
- Riverside Area Rape Crisis Center (RARCC), 24-Hour Hotline (951) 686-RAPE (7273) & (866) 686-RAPE (7273) (toll-free); 1845 Chicago Avenue, Suite A, Riverside, CA 92507; <https://rarcc.org>
- Rape Abuse & Incest National Network (RAINN), (800) 656-HOPE (4673); [www.rainn.org](http://www.rainn.org)
- House of Ruth 24-Hour Crisis Hotline, (877) 988-5559; individual/group counseling; phone support; legal advocate; shelter for women and children; domestic violence counseling; food; English/Spanish; <http://houseofruthinc.org>
- Option House 24-Hour Hotline, (909) 381-3471; temporary domestic violence women's shelters; support/outreach; free support groups, crisis education and self-defense; assistance with protective order paperwork; English/Spanish; <http://www.optionhouse.org>
- Doves Outreach of Big Bear Valley, (909) 866-1546; 24-Hour Hotline (800) 851-7601; provides women and families domestic violence shelter; individual counseling; support groups (parenting, anger management, women's writing, etc.); legal assistance; protective order help; programs and services for male victims; <http://www.doves4help.org>
- A Better Way Domestic Violence Shelter and Outreach, Victor Valley, 24-Hour Hotline (760) 955-8723; Toll-Free (888) 949-5770 & (866) 228-2059; 26-bed shelter (90-day maximum stay), TRO (temporary restraining order); outreach programs, opportunity and education support groups; Spanish; <http://www.abetterwaydomesticviolence.org>
- Shelter from the Storm, Inc., Coachella Valley, 24-Hour Crisis Lines (800) 775- 6055, (760) 328-SAFE (7233); emergency shelter; transitional housing; counseling center; legal clinic; teen dating; <http://www.shelterfromthestorm.com/Overview.htm>

## 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.

<sup>1</sup> See definition of Consent.

<sup>2</sup> Cal. Penal Code §§ 261-263.

<sup>3</sup> Cal. Penal Code § 240.

<sup>4</sup> Cal. Penal Code § 242.

<sup>5</sup> Cal. Penal Code § 13700(b) and Cal. Family Code § 6211.

<sup>6</sup> Cal. Penal Code § 13700(b).

<sup>7</sup> Cal. Penal Code § 646.9.

## Additional Resources

(Note: All links can be accessed directly from: <http://titleix.csusb.edu>)

- CSUSB's sexual violence prevention and education statement, which includes facts and myths about sexual violence, at <http://policies.csusb.edu/documents>.
- CSUSB's Policies website, at <http://policies.csusb.edu/students.html>.
- 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, <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; <http://calcasa.org>



- California Coalition Against Sexual Assault, (916) 446-2520; 1215 K. Street, Suite 1850, Sacramento, CA 95814; <http://www.calcasa.org>

# Extended Learning (CEL)

## 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 region, 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 age youth, 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 to students who cannot access CSUSB programs on campus. 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, 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) 537-5976.

## 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 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:

- Want to examine a particular field before seeking admission to the University and enrolling in a degree program;
- Want to update professional skills;

- Missed the deadline for admission to CSUSB;
- Have stopped attending CSUSB and wish to 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.

## Professional and Continuing Education (PACE)

A variety of credit and noncredit 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:
  - Administrative Professional with Microsoft Office Specialist
  - Executive Assistant Online
  - Professional Bookkeeping with QuickBooks 2013
  - Marketing Design
  - Grant Writing
  - Human Resources
  - Certified Green Supply Chain Professional
  - Freight Broker/Agent
  - Purchasing and Supply Chain Management
- Education:
  - Cardiopulmonary Resuscitation (CPR) Training
  - Early Orientation for Designated Subjects
  - Learning and Teaching Strategies (online)
  - Reading Fundamentals
  - SAT Test Preparation
  - STEM Teacher Certification
  - TESOL Advanced Certificate
  - 120-Hour TESOL
  - TESOL Teacher Training
  - U.S. Constitution Examination Preparation Course
- Health Care Administration:
  - Administrative Dental Assistant
  - ICD-10 Fast Track
  - Medical Administrative Assistant (classroom or online)
  - Medical Administrative Assistant with EHR

- Medical Billing
- Medical Billing and Coding
- Medical Transcription/Editor
- Professional Medical Coding and Billing
- Health Care Industry Training:
  - Basic Audiometry and Hearing Problems
  - Certified Personal Trainer
  - Clinical Dental Assistant
  - Clinical Medical Assistant Program with an Externship
  - Optician Certification Training
  - Pharmacy Technician (classroom or online)
  - Physical Therapy Aide
- Online High School Courses:
  - Advanced Placement
  - English
  - Foreign Language
  - Math
  - Social Science
- Professional Certification:
  - Dietetic Internship/ISPP Program
- Skilled Trades:
  - Building Analyst Quick Start
  - Home Inspection
  - HVAC Technician
  - Solar Power Professional
  - Food and Customer Service Skills
  - Professional Interpreter
- Technology:
  - Microsoft Certified Solutions Associate (MCSA):
  - Server 2008
  - Security Certified Practitioner (SSCP)
  - Geographic Information Systems
  - Paid Search Professional With OMCP®
  - Search Marketing Professional With OMCP®
  - Social Media and Mobile Marketing Professional With OMCP®
  - Graphic Design with Photoshop CS5
  - Web Design Professional
  - Computer Technician
  - Help Desk Analyst: Tier 1 Support Specialist
  - Microsoft Web Developer
  - Mobile and Desktop Web Developer
  - Mobile Web Developer

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.

PACE 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 / Customized Training

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
- Educational and extra-curricular activities
- A pathway degree program at CSUSB with a 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.

## Study Abroad in the USA

This program allows international students to enroll in university degree-credit courses at the undergraduate level on a space-available basis and study alongside American students.

## 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

### Dr. Cynthia Crawford, Professor of Psychology



Psychology Professor Cynthia Crawford is the university's 2013-2014 Outstanding Professor. A faculty member since 1996, Crawford has taught a wide range of courses at the undergraduate and graduate levels. She has an impressive record of being awarded grants from the National Institutes of Health, many of which support her students. She also secured NIH funding for the CSUSB Diversity Drug Abuse Research Program and the Minority Drug Abuse Research Program, serving as director for each of those programs. For more information visit [news.csusb.edu](http://news.csusb.edu).

## Golden Apple Award for Teaching Excellence

### Thomas Long, Professor History



Associate Professor Tom Long is the 2015 recipient of the university's Golden Apple Award for Teaching Excellence. A member history faculty since 2006, Long has also worked with a number of Native American communities and area museums, including the Pechanga Band of

Luiseño Indians and the Bowers Museum in Santa Ana. He also continues to work on projects in the fields of museum studies, archival practices, California Indian history and U.S. Constitutional history. For more information visit [news.csusb.edu](http://news.csusb.edu).

## 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.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

Manijeh Badiie, 2013  
Assistant Professor of Psychology

Eun-OK Baek, 2002  
Professor of Education

B.A. 1987, M.Ed. 1993, Chingu National University, Korea  
M.A. 1998, Ph.D. 2002, Indiana University

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

B.A. 1971, M.P.A. 1974, San Diego State University  
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  
M.A., Ed.S., Ph.D. 1994, Stanford University

Terry Ballman, 2013  
Professor of Spanish

Ph.D 1985, University of Texas

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  
D.PH. 2014, 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

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 Bournias-Vardiabasis, 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.A. 1970, M.A. 1972, San Diego State University

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.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  
M.A. 1988, M.S. 1993, Ph.D. 1994, Stanford University

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

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 Atlantic 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, Union Institute and University of Ohio

Jeremy Dodsworth, 2014  
Assistant Professor of Biology

B.S. 2000, University of Wisconsin, Madison  
Ph.D. 2006, University of Washington

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  
Assistant Professor of Theatre Arts

MFA, University of Missouri-Kansas City, 2003

Nadia Dyakevich, 2002  
Professor of Mathematics

M.Sc. 1997, Moscow State Institute of Electronics and Mathematics  
M.Sc. 1998, Ph.D. 2002, University of Louisiana at Lafayette

Harold Dyck, 1989  
Professor of Information and Decision Sciences

B.A. 1975, University of Kansas  
M.S. 1977, Ph.D. 1982, Purdue University

Carolyn R. Eggleston, 1991

Professor of Education

B.S. 1973, M.A. 1975, Tennessee Tech. University  
Ph.D. 1989, Virginia Commonwealth University

Kathryn Ervin, 1989  
Professor of Theatre Arts, Chair

B.F.A. 1978, Wayne State University  
M.F.A. 1980, Illinois State University

Guillermo Escalante, 2014  
Assistant Professor of Kinesiology

B.S. 1997, M.B.A. 1999, University of LaVerne, CA  
D.S.C 2012, Rocky Mountain University of Health Professions

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. 1986, Oklahoma State University

Parastou Feiz, 2007  
Associate Professor of English

B.A. 1998, Shahid Beheshti University, Iran  
M.A. 2002, Ph.D. 2007, Pennsylvania State University

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  
Dean

B.M.E. 1983, M.M. 1990, Pittsburgh State  
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

David D. Fischman, 1994  
Professor of Mathematics

B.S. 1976, M.S. 1978, Ph.D. 1989, Ben Gurion University

Kirsten Fleming, 2012  
Professor of Mathematics

Ph.D. 1989, University of Birmingham

Barbara M. Flores, 1987  
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  
Coordinator

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

B.A. 1994, M.E.D. 2001, Ph.D. 2006, Wichita State University

Catherine (Stacey) 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 Garcia-Puente, 2013  
Lecturer in World Languages and Literatures

Ph.D., University of Kansas, 2013 (expected)

Thom G. 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.U.P. 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  
M.A. 1974, M.A. 1976, Ph.D. 1986, Stanford University

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 Wyoming

Lorraine Hedtke, 2012  
Associate Professor of Education

Ph.D., University of California, Los Angeles, 2003

Brian Heisterkamp, 2001  
Professor of Communication Studies

B.A. 1989, Arizona State University  
M.A. 1997, Loma Linda University  
Ph.D. 2000, Arizona State University

Holly Henry, 2000  
Professor of English

B.A. 1987, M.A. 1992, Bucknell University  
Ph.D. 1999, Pennsylvania State University

Carol Hood, 2012  
Assistant Professor of Physics

Ph.D., University of California, Irvine, 2011

Angela Horner, 2013  
Assistant Professor of Biology

Ph.D., 2010, Ohio University - Main Campus

Kathryn Howard, 2012  
Associate Professor of Education

Ph.D., University of California, Los Angeles, 2003

Catherine Hsieh, 2013  
Student Services Professional

Ph.D., 2012, University of Missouri - Columbia

Joe S. Hughes, 1998  
Assistant Professor of Health Science and Human Ecology

B.A. 1978, George Washington University  
M.S. 1985, Ph.D. 1989, Washington State University

Jacqueline Hughes, 2013  
Professor of Education

Ph.D. 1996, Arizona State University

Sung-Kyoo Huh, 1987  
Professor of Accounting and Finance

B.E. 1977, Korea University  
M.B.A. 1982, State University of New York, Buffalo  
Ph.D. 1988, Kent State University

Heather L. Hundley, 1999  
Professor of Communication Studies

## Assistant Dean

B.A. 1992, M.A. 1994, California State University, Sacramento  
Ph.D. 1999, University of Utah

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  
M.A. 1992, Ph.D. 1996, Michigan State 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 Angeles

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  
MILS, 1974, 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

Corrine Johnson, 2014  
Assistant Professor of Mathematics

B.S. 2009, University of Redlands  
Ph.D. 2014, Colorado State University

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 Kakahara, 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

B.A. 1993, 1998, M.A. 1995, 1999, University of Dehli  
M.A. 2003, University of Akron  
Ph.D. 2007, Kent State University

N. Laura Kamptner, 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

Psy.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

B.A. 1998, M.S.C. 2001, University College Cork

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

W. Britt Leatham, 1987

Associate Professor of Geological Sciences

B.A. 1995, M.A. 1998, California State University, San Bernardino

Amy S.C. Leh, 1998

Professor of Education

B.A. 1981, Providence College, Taiwan

M.A. 1991, M.E. 1992, Ph.D. 1997, Arizona State University

Felicia Lemus, 2013

Assistant Professor of English

B.A., 1997, University of California, Irvine

M.F.A., 2000, California Institute of the Arts

Jacqueline Leventon, 2014

Assistant Professor of Psychology

B.S. 2008, University of Maryland

M.S. 2011, Emory University

Brian Levin, 1999

Professor of Criminal Justice

B.A. 1989, University of Pennsylvania

J.D. 1992, Stanford Law School

Michael Lewin, 1995

Associate Professor of Psychology

B.A. 1983, State University of New York, Albany  
M.S. 1987, Ph.D. 1992, Oklahoma State University

Lucy Lewis, 2014  
Assistant Professor of Music

B.M./B.S. 2008, Andrews University  
M.M. 2011, University of Cincinnati

Jiong Li, 2007  
Assistant Professor of Art

B.F.A. 1997, M.F.A. 2005, Utah State University

Wu-Lung Li, 2011  
Assistant Professor of Accounting and Finance

B.A. 1998, University of Taiwan  
M.A. 2000, National Taiwan University  
Ph.D. 2011, University Of Texas at Dallas

Su Liang, 2010  
Assistant Professor of Mathematics

B.A. 2003, M.S. 2007, Ph.D. 2010, University of Connecticut

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

B.A. 1989, Lawrence University  
M.A. 1998, Psy.D. 2004, The Wright Institute

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 Lloset, 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

Robert H. London, 1995  
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

B.A. 1995, M.A. 1998, University of Oregon  
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  
M.A. 2000, Ph.D. 2008, Arizona State University
- 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. McMurrin, 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

C. Rod Metts, 2002  
Associate Professor of Communication Studies

Ph.D. 1994, Ohio State University

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

Enrique Murillo, 1999  
Professor of Education

M.A. 1995 California State University, Los Angeles  
Ph.D. 1999, University of North Carolina Chapel Hill

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

Eric J. Newman, 2001  
Professor of Marketing

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. Noblet, 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  
M.B.A. 1983, M.F.A. 1985, M.A. 2003, Ph.D. 2006, University of Southern California

Tomasz Owerkowicz, 2011  
Assistant Professor of Biology

B.A. 1994, Ph.D. 2003, Harvard University, 2003

Julie Paegle, 2006  
Professor of English

B.S. 1996, B.A. 1997, M.F.A. 2000, Ph.D. 2006, University of Utah

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  
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

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

B.S. 2000, University of International Business and 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 Ragguette, 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, Gainesville

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

B.A. 1973, M.A. 1977, Ph.D. 1980, Cambridge University

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, 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

Joseph A. Scarcella, 1998  
Professor of Education

B.A. 1985, M.A. 1992, San Diego State University  
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

B.A. 2001, M.A. 2004, Ph.D. 2007, University of Florida

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  
Ph.D. 2006, University of La Verne

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  
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

B.A. 1993, M.L.I.S. 2001, University of California, Los Angeles

Barbara Sirotnik, 1980  
Professor of Information and Decision Sciences

A.B., B.S. 1973, M.S. 1979, Ph.D. 1980, University of California, Riverside

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. 2008, University of Idaho

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

B.A. 1981, M.A. 1983, Ph.D. 1987, University of California, Los Angeles

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

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

B.A. 1996, M.S. 2000, D.P.D.S. 2004, University of Southern California

Ballman Terry, 2013  
Professor of Spanish

Ph.D. 1985, University of Texas

Mary Texeira, 1994  
Professor of Sociology

B.A. 1989, M.A. 1992, Ph.D. 1994, University of California, Riverside

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

B.A. 1980, M.A. 1989, Ph.D. 1997, University of California, Los Angeles

Timothy D. Usher, 1990  
Professor of Physics

B.S. 1981, Appalachian State University  
Ph.D. 1990, University of South Carolina

Elsa O. Valdez, 1993  
Professor of Sociology

B.A. 1986, M.A. 1988, Ph.D. 1991, University of California, Riverside

Maiyoua Vang, 2014  
Assistant Professor of Education

B.A. 1995, M.A. 2004, California State University, Fresno  
D.E.D. 2008, University of California, Davis

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

B.S. 1974, M.S. 1978, Ph.D. 1982, Louisiana State University

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.S. 1991, California State Polytechnic University, Pomona  
M.S. 1992, Ph.D. 1998, University of California, Riverside

Wenxiang Wang, 1994  
Professor of Mathematics

B.A. 1982, Tsinghua University, Beijing, China  
M.A. 1984, Ph.D. 1988, Princeton University

Sharon L. Ward, 1999  
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

B.A. 2005, M.S. 2007, M.A. 2010, Ph.D. 2012, University of Maine

Dudley J. Wiest, 1993  
Professor of Education

B.S. 1979, Concordia College  
M.A. 1983, California State University, Northridge  
Ph.D. 1992, Claremont Graduate University

Amanda S. Wilcox-Herzog, 1999  
Professor of Psychology

B.A. 1988, University of California, Irvine  
M.Ed. 1992, Chapman University  
M.A. 1995, Ph.D. 1999, Purdue 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

B.A. 1977, M.A. 1981, McGill University  
Ph.D. 2001, University of Calgary

John Wu, 2008  
Professor of Information and Decision Sciences

Ph.D., 1995, Penn State University

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

B.M. 1975, M.M. 1990, D.M.A. 1994, University of Southern California

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  
M.A. 1991, Ph.D. 1994, Michigan State University

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  
Librarian, Emeritus, 2010

Carolyn B. Aldana  
Professor, Economics. Emeritus, 2008

Gene L. Andrusco  
Associate Professor, Accounting. Emeritus, 2002

Patricia Arlin  
Educational Leadership and Technology. 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 Boorum  
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

Kim R. Clark  
Professor, Health Science.

Michael Clarke  
Professor, Public Administration. Emeritus, 2006

Frances Coles  
Professor, Criminal Justice. Emeritus, 2006

John A. Conley  
Emeritus, 2007

Leo P. Connolly  
Professor, Physics. Emeritus, 2010

Margaret H. Cooney  
Professor, Special Education, Rehabilitation and Counseling. 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  
Professor, Kinesiology. Emeritus, 2004

Nancy Mary  
Professor, Social Work. Emeritus, 2007

Audrey Mathews  
Professor, Public Administration. Emeritus, 2006

Camille Mayers  
Assistant Professor, Education. Emeritus, 2013

Clark Mayo  
Professor, English. Emeritus, 2001

Ward M. McAfee  
Professor, History. Emeritus, 2002

Jack McDonnell  
Professor, Information. Emeritus, 2000

Theodore R. McDowell

Professor, Geography. Emeritus, 2008

Larry E. McFatter  
Professor, Music. Emeritus, 2010

George McGinnis  
Professor, Art. Emeritus, 2010

Mary L. McGregor  
Associate Professor, Nursing. Emeritus, 1992

Patrick McInturff  
Professor, Management. Emeritus, 2010

Susan Meisenhelder  
Professor, English. Emeritus, 2006

Thomas Meisenhelder  
Professor, Sociology. Emeritus, 2004

Randi L. Miller  
Professor, Sociology. Emeritus, 2009

Steven Mintz  
Professor, Accounting. Emeritus, 2003

Mary E. Molle  
Professor, Nursing. Emeritus, 2010

Clark Molstad  
Professor, Management. Emeritus, 2010

Kenton L. Monroe  
Professor, Psychology. Emeritus, 1988

Thomas E. Moody  
Associate Professor, Philosophy. Emeritus, 2012

Joseph R. Moran  
Professor, Art. Emeritus, 2003

Teresa Morris  
Professor, Social Work. Emeritus, 2013

Bernhardt L. Mortensen  
Associate Professor, Sociology. Emeritus, 1978

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, Special Education, Rehabilitation and Counseling. 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



# Bulletin Contents

---

- About the Bulletin (p. 9)
- About the University (p. 16)
- Academic Calendar (p. 26)
- Academic Regulations and Standards (p. 102)
- Academic Support and Campus Services (p. 71)
- Accreditation (p. 25)
- Admission (p. 28)
- Bulletin Contents (p. 160)
- Catalog A-Z Index (<http://bulletin.csusb.edu/azindex>)
- Colleges, Schools, and Departments (p. 170)
  - College of Arts and Letters (p. 171)
    - Bachelor of Arts in American Studies (p. 179)
  - Department of Art (p. 180)
    - Bachelor of Arts in Art - Plan I (Visual Studies) (p. 190)
    - Bachelor of Arts in Art - Plan II (Studio Art) (p. 192)
    - Bachelor of Arts in Art - Plan III (Art History) (p. 193)
    - Bachelor of Arts in Art - Plan IV (Graphic Design) (p. 194)
    - Bachelor of Arts in Art - Plan V (Graphic Design and Marketing) (p. 195)
    - Certificate in Business Skills for the Artist (p. 195)
    - Master of Arts in Art - Art Education (p. 195)
    - Master of Arts in Art - Studio Art (p. 196)
    - Master of Fine Arts in Studio Art (p. 198)
    - Minor in Art History (p. 199)
    - Minor in Graphic Design - Print (p. 199)
    - Minor in Graphic Design - Web (p. 199)
    - Minor in Studio Art (p. 199)
  - Department of Communication Studies (p. 201)
    - Bachelor of Arts in Communication (p. 212)
    - Certificate in Asian Studies (p. 214)
    - Certificate in Communication Skills (p. 215)
    - Certificate in Conflict Management (p. 215)
    - Master of Arts in Communication Studies (p. 216)
    - Minor in Asian Studies (p. 218)
    - Minor in Communication (p. 219)
    - Minor in Film Studies (p. 220)
    - Minor in Intercultural Communication (p. 220)
    - Minor in Public Relations (p. 220)
    - Minor in Script Writing (p. 221)
  - Department of English (p. 222)
    - Bachelor of Arts in English (p. 236)
    - Certificate in Teaching English as a Second Language (p. 237)
    - Certificate in Teaching Writing (p. 237)
    - Certificate in Writing: Creative Writing (p. 238)
    - Certificate in Writing: Professional Writing (p. 238)
    - Master of Arts in English Composition (p. 239)
    - Master of Fine Arts in Creative Writing (p. 242)
    - Minor in English (p. 244)
- Department of Music (p. 246)
  - Bachelor of Arts in Music (p. 260)
  - Bachelor of Music in Performance (p. 261)
  - Minor in Jazz Studies (p. 264)
  - Minor in Music (p. 264)
  - Minor in Recording Arts (p. 264)
- Department of Philosophy (p. 266)
  - Bachelor of Arts in Philosophy (p. 270)
  - Minor in Law and Philosophy (p. 271)
  - Minor in Philosophical Logic (p. 271)
  - Minor in Philosophy, Policy, and Economics (p. 272)
  - Minor in Philosophy (p. 272)
- Department of Theatre Arts (p. 273)
  - Bachelor of Arts in Theatre Arts (p. 284)
  - Certificate in Puppetry (p. 285)
  - Certificate in Theatre for Youth (p. 286)
  - Master of Arts in Theatre Arts (p. 286)
  - Minor in Theatre Arts (p. 287)
- Department of World Languages and Literatures (p. 290)
  - Bachelor of Arts in Arabic Language, Literature, and Culture (p. 324)
  - Bachelor of Arts in French (p. 329)
  - Bachelor of Arts in Spanish (p. 330)
  - Certificate for German/English Translators (p. 332)
  - Certificate in Arabic (p. 333)
  - Certificate in Bilingual/Cross-Cultural Studies: Spanish/English (p. 334)
  - Certificate in California Indian Languages and Cultures (p. 334)
  - Certificate in French/English Translation (p. 335)
  - Certificate in Hispanic Literatures (p. 335)
  - Certificate in Japanese Language and Culture (p. 336)
  - Certificate in Spanish Applied Linguistics (p. 336)
  - Certificate in Spanish for Public Services (p. 337)
  - Healthcare Spanish Certificate (p. 337)
  - Master of Arts in Spanish (p. 338)
  - Minor in Arabic (p. 339)
  - Minor in French (p. 340)
  - Minor in German (p. 340)
  - Minor in Japanese (p. 341)
  - Minor in Spanish (p. 341)
- Liberal Studies Program (p. 342)
  - Bachelor of Arts in Liberal Studies - Arts and Letters Track (Non-credential) (p. 342)
  - Bachelor of Arts in Liberal Studies - General Track (Pre-Credential) (p. 343)
  - Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential) (p. 347)
  - Bachelor of Arts in Liberal Studies - Spanish Studies Track (p. 350)
    - Minor in Latin American Studies (p. 353)
- College of Business and Public Administration (p. 355)

- B.A. in Administration Accounting Concentration (p. 361)
- B.A. in Administration Entrepreneurial Management Concentration (p. 361)
- B.A. in Administration Finance Concentration (p. 362)
- B.A. in Administration Financial Planning Concentration (p. 363)
- B.A. in Administration Human Resource Management Concentration (p. 363)
- B.A. in Administration Information Systems and Technology Concentration (p. 364)
- B.A. in Administration International Business Concentration (p. 365)
- B.A. in Administration Management Concentration (p. 366)
- B.A. in Administration Marketing Concentration (p. 367)
- B.A. in Administration Public Administration Concentration (p. 368)
- B.A. in Administration Real Estate Concentration (p. 369)
- B.A. in Administration Sports and Entertainment Marketing (p. 369)
- B.A. in Administration Supply Chain and Transportation Management Concentration (p. 370)
- Bachelor of Science in Administration Cyber Security Concentration (p. 371)
- B.S. in Administration Information Systems and Technology Concentration (p. 371)
- Certificate in Accounting (p. 372)
- Certificate in Cyber Security (p. 372)
- Certificate in Information Systems Management (p. 373)
- Certificate in Supply Chain Management (p. 373)
- Department of Accounting and Finance (p. 374)
  - Master of Science in Accountancy (3:2 Program Option) (p. 383)
  - Master of Science in Accountancy (p. 382)
- Department of Information and Decision Sciences (p. 385)
  - Bachelor of Science in Information Systems and Technology (p. 392)
- Department of Management (p. 392)
- Department of Marketing (p. 398)
- Department of Public Administration (p. 403)
  - Master of Public Administration (p. 407)
- Master of Business Administration - Executives Option (p. 412)
- Master of Business Administration - Professionals Option (p. 412)
- Master of Business Administration (p. 409)
- Minor in Accounting (p. 413)
- Minor in Business Administration (p. 413)
- Minor in Business Information Mapping (p. 413)
- Minor in Entrepreneurship (p. 413)
- Minor in Finance (p. 413)
- Minor in Human Resources Management (p. 414)
- Minor in Information Systems and Technology (p. 414)
- Minor in International Business (p. 414)
- Minor in Management (p. 414)
- Minor in Marketing (p. 415)
- Minor in Public Administration (p. 415)
- Minor in Real Estate (p. 415)
- Minor in Sports and Entertainment Marketing (p. 415)
- Minor in Supply Chain Management (p. 415)
- College of Education (p. 417)
  - Department of Educational Leadership and Technology (p. 424)
    - Administrative Services Preliminary Credential (p. 435)
    - Administrative Services Preliminary (Internship) Credential (p. 434)
    - Administrative Services Professional Credential (p. 435)
    - Bachelor of Science in Career and Technical Studies (p. 436)
    - Bachelor or Arts in Career and Technical Studies (p. 437)
    - Certificate in Career and Technical Education (p. 437)
    - Certificate in Educational Technology (p. 438)
    - Certificate in E-Learning (p. 438)
    - Certificate in School Business Management (p. 438)
    - Designated Subjects Career and Technical Education Credential (p. 439)
    - Doctor of Education in Educational Leadership (p. 439)
    - Master of Arts in Education - Career and Technical Education Option (p. 441)
    - Master of Arts in Education - Instructional Technology Option (p. 443)
    - Master of Arts in Education - Teacher Leadership Option (p. 445)
    - Master of Arts in Educational Administration (p. 446)
    - Minor in Career and Technical Education (p. 447)
    - Supervision and Coordination of Designated Subjects Program (p. 447)
  - Department of Special Education, Rehabilitation and Counseling (p. 448)
    - Autism Spectrum Disorder Added Authorization in Special Education Credential (p. 458)
    - Certificate in Counseling (p. 459)
    - Certificate in Education of the Gifted and Talented (p. 460)
    - Certificate in Rehabilitation Counseling (p. 460)
    - Early Childhood Special Education Added Authorization Credential (p. 460)
    - Education Specialist Clear Credential (p. 461)
    - Internship Education Specialist Credential: (p. 465)
    - Internship Education Specialist Credential: (p. 461)
    - Internship Education Specialist Credential: (p. 463)
    - Master of Arts in Education - Special Education Option (p. 466)
    - Master of Arts in Rehabilitation Counseling (p. 469)
    - Master of Science in Counseling and Guidance (p. 470)
    - Master of Science in Special Education (p. 471)
    - Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 473)

- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 474)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 476)
- Professional Clear Level II Education Specialist Credential: (p. 478)
- Professional Clear Level II Education Specialist Credential: (p. 478)
- Professional Level II Education Specialist Credential: (p. 479)
- Pupil Personnel Services Credential: School Counseling (p. 479)
- Pupil Personnel Services Credential: School Psychology (p. 480)
- Department of Teacher Education and Foundations (p. 482)
  - Adapted Physical Education Added Authorization Credential (p. 503)
  - Certificate in Crosscultural, Language and Academic Development (CLAD) (p. 503)
  - Certificate in Education (p. 503)
  - Certificate in Gender and Sexuality Studies (p. 504)
  - Certificate in Holistic and Integrative Education (p. 505)
  - Certificate in Reading and Literacy (p. 505)
  - Master of Arts in Education - Bilingual/Cross-Cultural Option (p. 506)
  - Master of Arts in Education - Curriculum and Instruction Option (p. 507)
  - Master of Arts in Education - Holistic and Integrative Education Option (p. 509)
  - Master of Arts in Education - Kinesiology Option (p. 510)
  - Master of Arts in Education - Reading and Literacy Option (p. 511)
  - Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) Option (p. 513)
  - Master of Arts in Education -Correctional & Alternative Education Option (p. 515)
  - Master of Arts in Education -Mathematics and Science Education Option (p. 517)
  - Master of Science in Science, Technology, Engineering and Mathematics Education Option (p. 518)
  - Minor in Education (p. 520)
  - Minor in Gender and Sexuality Studies (p. 521)
  - Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential (p. 521)
  - Multiple Subject Credential and Multiple Subject Credential (p. 525)
  - Multiple Subject Credential (p. 523)
  - Reading and Literacy Leadership Specialist Credential (p. 527)
  - Single Subject - Intern Track Credential (p. 528)
  - Single Subject - Student Teaching Track Credential (p. 530)
- College of Natural Sciences (p. 532)
- Department of Biology (p. 536)
  - Bachelor of Arts in Biology - Integrated Teaching Track (p. 548)
  - Bachelor of Arts in Biology - Pre-Med Option (p. 549)
  - Bachelor of Arts in Biology (p. 548)
  - Bachelor of Science in Bioinformatics (p. 550)
  - Bachelor of Science in Biology - Ecology and Evolution Option (p. 551)
  - Bachelor of Science in Biology - Pre-Med Option (p. 552)
  - Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation (p. 553)
  - Bachelor of Science in Biology (p. 551)
  - Certificate in Biotechnology (p. 556)
  - Master of Science in Biology (p. 554)
  - Minor in Biology (p. 556)
- Department of Chemistry and Biochemistry (p. 558)
  - Bachelor of Arts in Chemistry - Biochemistry Option (p. 565)
  - Bachelor of Arts in Chemistry - Chemistry Option (p. 566)
  - Bachelor of Arts in Chemistry - Integrated Teaching Track (p. 566)
  - Bachelor of Science in Chemistry - ACS Certified Option (p. 568)
  - Bachelor of Science in Chemistry - Biochemistry Option (p. 568)
  - Master of Science in Earth and Environmental Studies (p. 569)
  - Minor in Chemistry (p. 571)
- Department of Geological Sciences (p. 572)
  - Bachelor of Arts in Geology - Integrated Teaching Track (p. 580)
  - Bachelor of Arts in Geology (p. 580)
  - Bachelor of Science in Geology (p. 581)
  - Minor in Geology (p. 582)
- Department of Health Science and Human Ecology (p. 583)
  - Bachelor of Science in Health Science (p. 597)
  - Bachelor of Science in Nutrition and Food Sciences (p. 598)
  - Certificate in Gerontology (p. 601)
  - Certificate in Health Care Management (p. 602)
  - Master of Public Health (p. 599)
  - Master of Science in Health Services Administration (p. 600)
  - Minor in Health Science (p. 601)
  - Minor in Nutrition and Food Sciences (p. 601)
- Department of Kinesiology (p. 603)
  - Bachelor of Science in Kinesiology - Allied Health Professions (p. 612)
  - Bachelor of Science in Kinesiology - Exercise Science (p. 613)
  - Bachelor of Science in Kinesiology - Pedagogy (p. 613)
  - Certificate in Coaching (p. 614)
  - Certificate in Fitness Management (p. 615)
  - Certificate in Recreation Leadership (p. 615)
  - Minor in Kinesiology (p. 615)
  - Minor in Recreation (p. 616)
- Department of Mathematics (p. 617)

- Bachelor of Arts in Mathematics - Teaching Track (p. 626)
- Bachelor of Arts in Mathematics (p. 626)
- Bachelor of Science in Mathematics (p. 627)
- Certificate in Introductory Actuarial Science (p. 632)
- Certificate in Introductory Mathematics (p. 632)
- Master of Arts in Mathematics (p. 629)
- Master of Arts in Teaching-Mathematics (p. 630)
- Minor in Applied Mathematics (p. 631)
- Minor in Mathematics (p. 631)
- Department of Nursing (p. 634)
  - Bachelor of Science in Nursing - RN to BSN Bridge Program (p. 642)
  - Bachelor of Science in Nursing (p. 641)
  - Master of Science in Nursing (p. 644)
- Department of Physics (p. 646)
  - Bachelor of Arts in Physics (p. 650)
  - Bachelor of Science in Physics - Applied Physics (p. 651)
  - Bachelor of Science in Physics (p. 650)
  - Minor in Applied Physics (p. 651)
  - Minor in Physics (p. 651)
- School of Computer Science and Engineering (p. 652)
  - Bachelor of Arts in Computer Systems (p. 661)
  - Bachelor of Science in Computer Engineering (p. 662)
  - Bachelor of Science in Computer Science (p. 662)
  - Certificate in Computer Systems and Programming (p. 665)
  - Master of Science in Computer Science (p. 663)
  - Minor in Computer Science (p. 665)
- College of Social and Behavioral Sciences (p. 666)
  - Aerospace Studies (Air Force ROTC) Program (p. 672)
  - Bachelor of Arts in Social Sciences - Credential Track (p. 673)
  - Bachelor of Arts in Social Sciences - Multidisciplinary Track (p. 674)
  - Certificate in Islamic and Middle Eastern Studies (p. 679)
  - Certificate in Native Nations/Indigenous Peoples Studies (p. 680)
  - Department of Anthropology (p. 681)
    - Bachelor of Arts in Anthropology (p. 688)
    - Certificate in Applied Cultural Anthropology (p. 689)
    - Certificate in Archaeology (p. 689)
    - Certificate in Latin American Studies (p. 690)
    - Certificate in Museum Studies (p. 690)
    - Master of Arts in Applied Archaeology (p. 691)
    - Minor in Anthropology (p. 692)
  - Department of Criminal Justice (p. 693)
    - Bachelor of Arts in Criminal Justice - Crime Analysis Option (p. 701)
    - Bachelor of Arts in Criminal Justice (p. 700)
    - Certificate in Criminal Justice (p. 702)
    - Master of Arts in Criminal Justice (p. 702)
    - Minor in Criminal Justice (p. 704)
  - Department of Economics (p. 705)
    - Bachelor of Arts in Economics - Applied Economics (p. 709)
    - Bachelor of Arts in Economics - Mathematical Economics (p. 709)
    - Bachelor of Arts in Economics - Political Economy (p. 710)
    - Bachelor of Arts in Economics (p. 708)
    - Minor in Economics (p. 710)
    - Minor in Philosophy, Policy, and Economics (p. 710)
    - Minor in Political Economy (p. 711)
  - Department of Geography and Environmental Studies (p. 712)
    - Bachelor of Arts in Environmental Studies (p. 717)
    - Bachelor of Arts in Geography - Geography Option (p. 719)
    - Bachelor of Arts in Geography - Global Studies Option (p. 719)
    - Certificate in Geographic Information Systems (p. 720)
    - Certificate in Urban Planning (p. 720)
    - Minor in Environmental Studies (p. 720)
    - Minor in Geography - Global Studies (p. 721)
    - Minor in Geography (p. 721)
  - Department of History (p. 722)
    - Bachelor of Arts in History (p. 728)
    - Minor in History (p. 731)
  - Department of Political Science (p. 732)
    - Bachelor of Arts in Political Science (p. 738)
    - Certificate in Intelligence Methodology (p. 738)
    - Certificate in International Relations (p. 739)
    - Minor in Political Science (p. 739)
    - Minor in Pre-Law (p. 739)
  - Department of Psychology (p. 740)
    - Bachelor of Arts in Human Development - Child Development Track (p. 757)
    - Bachelor of Arts in Human Development - Lifespan Track (p. 758)
    - Bachelor of Arts in Human Development - School Age Track (p. 759)
    - Bachelor of Arts in Psychology - Biological Psychology (p. 764)
    - Bachelor of Arts in Psychology (p. 762)
      - Bachelor of Arts in Psychology - Industrial and Organizational Psychology Concentration (p. 763)
    - Master of Arts in Child Development (p. 765)
    - Master of Arts in General Experimental Psychology (p. 767)
    - Master of Science in Psychology (p. 768)
    - Minor in Psychology (p. 770)
  - Department of Sociology (p. 771)
    - Bachelor of Arts in Sociology - Social Service Track (p. 775)
    - Bachelor of Arts in Sociology (p. 774)
    - Certificate in Gerontology (p. 775)
    - Certificate in Social Services (p. 776)
    - Minor in Sociology (p. 776)
  - Master of Arts in National Security Studies (p. 776)
  - Master of Arts in Social Sciences and Globalization (p. 778)
  - Master of Science in National Cyber Security Studies (p. 782)
  - Military Science (Army ROTC) Program (p. 784)

- Minor in Ethnic Studies - Chicano(a)/Latino(a) Studies (p. 787)
- Minor in Ethnic Studies (p. 785)
- Minor in Islamic and Middle Eastern Studies (p. 787)
- School of Social Work (p. 787)
  - Bachelor of Arts in Social Work (p. 793)
  - Master of Social Work (p. 794)
- Graduate Studies (p. 799)
  - Master of Arts in Interdisciplinary Studies (p. 799)
- Undergraduate Interdisciplinary Studies (p. 796)
  - Bachelor of Arts with Special Major (p. 796)
  - Certificate in Health Equity and Health Disparities (p. 797)
- Courses A-Z (<http://bulletin.csusb.edu/coursesaz>)
  - Accounting (ACCT) (<http://bulletin.csusb.edu/coursesaz/acct>)
  - Administration (ADMN) (<http://bulletin.csusb.edu/coursesaz/admn>)
  - Aerospace Studies (AS) (<http://bulletin.csusb.edu/coursesaz/as>)
  - American Sign Language (ASL) (<http://bulletin.csusb.edu/coursesaz/asl>)
  - American Studies (AMST) (<http://bulletin.csusb.edu/coursesaz/amst>)
  - Anthropology (ANTH) (<http://bulletin.csusb.edu/coursesaz/anth>)
  - Arabic (ARAB) (<http://bulletin.csusb.edu/coursesaz/arab>)
  - Art (ART) (<http://bulletin.csusb.edu/coursesaz/art>)
  - Asian Studies (ASIA) (<http://bulletin.csusb.edu/coursesaz/asia>)
  - Astronomy (ASTR) (<http://bulletin.csusb.edu/coursesaz/astr>)
  - Biology (BIOL) (<http://bulletin.csusb.edu/coursesaz/biol>)
  - Career and Technical Studies (ECTS) (<http://bulletin.csusb.edu/coursesaz/ects>)
  - Chemistry (CHEM) (<http://bulletin.csusb.edu/coursesaz/chem>)
  - Child Development (CD) (<http://bulletin.csusb.edu/coursesaz/cd>)
  - Chinese (CHIN) (<http://bulletin.csusb.edu/coursesaz/chin>)
  - Communication Studies (COMM) (<http://bulletin.csusb.edu/coursesaz/comm>)
  - Computer Science & Engineering (CSE) (<http://bulletin.csusb.edu/coursesaz/cse>)
  - Correctional and Alternative (EDCA) (<http://bulletin.csusb.edu/coursesaz/edca>)
  - Criminal Justice (CJUS) (<http://bulletin.csusb.edu/coursesaz/cjus>)
  - Curriculum and Instruction (EDCI) (<http://bulletin.csusb.edu/coursesaz/edci>)
  - Dance (DAN) (<http://bulletin.csusb.edu/coursesaz/dan>)
  - Economics (ECON) (<http://bulletin.csusb.edu/coursesaz/econ>)
  - Educ Eng Speakers other Lang (EESL) (<http://bulletin.csusb.edu/coursesaz/eesl>)
  - Education (EDUC) (<http://bulletin.csusb.edu/coursesaz/educ>)
  - Educational Administration (EADM) (<http://bulletin.csusb.edu/coursesaz/eadm>)
  - Educational Counseling (ECLG) (<http://bulletin.csusb.edu/coursesaz/eclg>)
  - Elementary/Bilingual Education (EELB) (<http://bulletin.csusb.edu/coursesaz/eelb>)
  - English (ENG) (<http://bulletin.csusb.edu/coursesaz/eng>)
  - Environmental Education (EENV) (<http://bulletin.csusb.edu/coursesaz/eenv>)
  - Ethnic Studies (ES) (<http://bulletin.csusb.edu/coursesaz/es>)
  - Finance (FIN) (<http://bulletin.csusb.edu/coursesaz/fin>)
  - Foreign Language (FLAN) (<http://bulletin.csusb.edu/coursesaz/flan>)
  - French (FREN) (<http://bulletin.csusb.edu/coursesaz/fren>)
  - Gender and Sexuality Studies (GSS) (<http://bulletin.csusb.edu/coursesaz/gss>)
  - Geography (GEOG) (<http://bulletin.csusb.edu/coursesaz/geog>)
  - Geology (GEOL) (<http://bulletin.csusb.edu/coursesaz/geol>)
  - German (GER) (<http://bulletin.csusb.edu/coursesaz/ger>)
  - Health Science (HSCI) (<http://bulletin.csusb.edu/coursesaz/hsci>)
  - History (HIST) (<http://bulletin.csusb.edu/coursesaz/hist>)
  - Honors (HON) (<http://bulletin.csusb.edu/coursesaz/hon>)
  - Human Development (HD) (<http://bulletin.csusb.edu/coursesaz/hd>)
  - Humanities (HUM) (<http://bulletin.csusb.edu/coursesaz/hum>)
  - Information Systems and Tech (IST) (<http://bulletin.csusb.edu/coursesaz/ist>)
  - Instructional Technology (ETEC) (<http://bulletin.csusb.edu/coursesaz/etec>)
  - Japanese (JAPN) (<http://bulletin.csusb.edu/coursesaz/japn>)
  - Kinesiology (KINE) (<http://bulletin.csusb.edu/coursesaz/kine>)
  - Korean (KOR) (<http://bulletin.csusb.edu/coursesaz/kor>)
  - Management (MGMT) (<http://bulletin.csusb.edu/coursesaz/mgmt>)
  - Marketing (MKTG) (<http://bulletin.csusb.edu/coursesaz/mktg>)
  - Mathematics (MATH) (<http://bulletin.csusb.edu/coursesaz/math>)
  - Military Science (MILS) (<http://bulletin.csusb.edu/coursesaz/mils>)
  - Music (MUS) (<http://bulletin.csusb.edu/coursesaz/mus>)
  - Natural Sciences (NSCI) (<http://bulletin.csusb.edu/coursesaz/nsci>)
  - Nursing (NURS) (<http://bulletin.csusb.edu/coursesaz/nurs>)
  - Paralegal Studies (PLST) (<http://bulletin.csusb.edu/coursesaz/plst>)
  - Persian (PERS) (<http://bulletin.csusb.edu/coursesaz/pers>)
  - Philosophy (PHIL) (<http://bulletin.csusb.edu/coursesaz/phil>)
  - Physics (PHYS) (<http://bulletin.csusb.edu/coursesaz/phys>)
  - Political Science (PSCI) (<http://bulletin.csusb.edu/coursesaz/psci>)
  - Psychology (PSYC) (<http://bulletin.csusb.edu/coursesaz/psyc>)
  - Public Administration (PA) (<http://bulletin.csusb.edu/coursesaz/pa>)
  - Reading Education (ERDG) (<http://bulletin.csusb.edu/coursesaz/erdg>)
  - Rehabilitation Counseling (EREH) (<http://bulletin.csusb.edu/coursesaz/ereh>)
  - School Business Management (ESBM) (<http://bulletin.csusb.edu/coursesaz/esbm>)
  - Sci, Tech, Engin, Math Edu (ESTM) (<http://bulletin.csusb.edu/coursesaz/estm>)
  - Science Education (EDSC) (<http://bulletin.csusb.edu/coursesaz/edsc>)
  - Secondary Education (ESEC) (<http://bulletin.csusb.edu/coursesaz/esecc>)
  - Social Sciences (SSCI) (<http://bulletin.csusb.edu/coursesaz/ssci>)
  - Social Work (SW) (<http://bulletin.csusb.edu/coursesaz/sw>)
  - Sociology (SOC) (<http://bulletin.csusb.edu/coursesaz/soc>)
  - Spanish (SPAN) (<http://bulletin.csusb.edu/coursesaz/span>)

- Special Education (ESPE) (<http://bulletin.csusb.edu/coursesaz/espe>)
- Supply Chain Management (SCM) (<http://bulletin.csusb.edu/coursesaz/scm>)
- Theatre Arts (TA) (<http://bulletin.csusb.edu/coursesaz/ta>)
- University Studies (USTD) (<http://bulletin.csusb.edu/coursesaz/ustd>)
- Degrees and Programs A-Z (p. 166)
- Extended Learning (p. 129)
- Faculty (p. 132)
- Financial Information (p. 86)
- Graduate Degrees and Programs (p. 60)
  - Certificates (p. 67)
  - Credentials (p. 69)
  - Graduate Degree and Program Requirements (p. 60)
  - Graduate Degrees and Programs under Development (p. 70)
  - Graduate Degrees (p. 66)
- Palm Desert Campus (p. 21)
- President's Welcome (p. 1)
- Student Life (p. 79)
- The CSU System (p. 10)
- Undergraduate Degrees and Programs (p. 41)
  - Certificates (p. 55)
  - Credentials (p. 57)
  - General Education Program (p. 47)
  - Minors (p. 53)
  - Programs (p. 57)
  - Undergraduate Degree and Program Requirements (p. 43)
  - Undergraduate Degrees and Programs under Development (p. 59)
  - Undergraduate Degrees (p. 51)
  - Undergraduate Studies (p. 41)
  - University Honors (p. 46)

# Degrees and Programs A-Z

---

- Accountancy, MS (p. 382)
- Accountancy (3:2 Program Option), MS (p. 383)
- Accounting, Certificate (p. 372)
- Accounting, Minor (p. 413)
- Adapted Physical Education Added Authorization Credential (p. 503)
- Administration Accounting Concentration, BA (p. 361)
- Administration Cyber Security Concentration, BS (p. 371)
- Administration Entrepreneurial Management Concentration, BA (p. 361)
- Administration Finance Concentration, BA (p. 362)
- Administration Human Resource Management Concentration, BA (p. 363)
- Administration Information Systems and Technology Concentration, BA (p. 364)
- Administration Information Systems and Technology Concentration, BS (p. 371)
- Administration International Business Concentration, BA (p. 365)
- Administration Management Concentration, BA (p. 366)
- Administration Marketing Concentration, BA (p. 367)
- Administration Public Administration Concentration, BA (p. 368)
- Administration Real Estate Concentration, BA (p. 369)
- Administration Sports and Entertainment Marketing, BA (p. 369)
- Administration Supply Chain and Transportation Management Concentration, BA (p. 370)
- Administrative Services Preliminary Credential (p. 435)
- Administrative Services Preliminary (Internship) Credential (p. 434)
- Administrative Services Professional Credential (p. 435)
- Aerospace Studies (Air Force ROTC) Program (p. 672)
- American Studies, BA (p. 179)
- Anthropology, BA (p. 688)
- Anthropology, Minor (p. 692)
- Applied Archaeology, MA (p. 691)
- Applied Cultural Anthropology, Certificate (p. 689)
- Applied Mathematics, Minor (p. 631)
- Applied Physics, Minor (p. 651)
- Arabic, Certificate (p. 333)
- Arabic, Minor (p. 339)
- Arabic Language, Literature, and Culture, BA (p. 324)
- Archaeology, Certificate (p. 689)
- Art - Art Education, MA (p. 195)
- Art - Studio Art, MA (p. 196)
- Art - Plan I (Visual Studies), BA (p. 190)
- Art - Plan II (Studio Art), BA (p. 192)
- Art - Plan III (Art History), BA (p. 193)
- Art - Plan IV (Graphic Design), BA (p. 194)
- Art - Plan V (Graphic Design and Marketing), BA (p. 195)
- Art History, Minor (p. 199)
- Asian Studies, Certificate (p. 214)
- Asian Studies, Minor (p. 218)
- Autism Spectrum Disorder Added Authorization in Special Education Credential (p. 458)
- Bilingual/Cross-Cultural Studies: Spanish/English, Certificate (p. 334)
- Bioinformatics, BS (p. 550)
- Biology and Doctor of Osteopathic Medicine Articulation, BS (p. 553)
- Biology, BA (p. 548)
- Biology, BS (p. 551)
- Biology - Ecology and Evolution Option, BS (p. 551)
- Biology - Integrated Teaching Track, BA (p. 548)
- Biology, Minor (p. 556)
- Biology, MS (p. 554)
- Biology - Pre-Med Option, BA (p. 549)
- Biology - Pre-Med Option, BS (p. 552)
- Biotechnology, Certificate (p. 556)
- Business Administration, MBA (p. 409)
- Business Administration, Minor (p. 413)
- Business Administration -Executives Option, MBA (p. 412)
- Business Administration - Professionals Option, MBA (p. 412)
- Business Information Mapping, Minor (p. 413)
- Business Skills for the Artist, Certificate (p. 195)
- California Indian Languages and Cultures, Certificate (p. 334)
- Career and Technical Studies, BA (p. 437)
- Career and Technical Studies, BS (p. 436)
- Career and Technical Education Minor (p. 447)
- Career and Technical Education, Certificate (p. 437)
- Chemistry - ACS Certified Option, BS (p. 568)
- Chemistry - Biochemistry Option, BA (p. 565)
- Chemistry - Biochemistry Option, BS (p. 568)
- Chemistry - Chemistry Option, BA (p. 566)
- Chemistry - Integrated Teaching Track, BA (p. 566)
- Chemistry, Minor (p. 571)
- Child Development, MA (p. 765)
- Coaching, Certificate (p. 614)
- Communication, BA (p. 212)
- Communication, Minor (p. 219)
- Communication Skills, Certificate (p. 215)
- Communication Studies, MA (p. 216)
- Computer Engineering, BS (p. 662)
- Computer Science, BS (p. 662)
- Computer Science, Minor (p. 665)
- Computer Science, MS (p. 663)
- Computer Systems and Programming, Certificate (p. 665)
- Computer Systems, BA (p. 661)
- Conflict Management, Certificate (p. 215)
- Counseling and Guidance, MS (p. 470)
- Counseling, Certificate (p. 459)
- Creative Writing, MFA (not offered in the 2015-16 Academic Year)
- Criminal Justice, BA (p. 700)
- Criminal Justice, Certificate (p. 702)

- Criminal Justice - Crime Analysis Option, BA (p. 701)
- Criminal Justice, Minor (p. 704)
- Crosscultural, Language and Academic Development (CLAD), Certificate (p. 503)
- Cyber Security, Certificate (p. 372)
- Designated Subjects Career and Technical Education Credential (p. 439)
- Early Childhood Special Education Added Authorization Credential (p. 460)
- Earth and Environmental Studies, MS (p. 569)
- Economics, BA (p. 708)
- Economics, Minor (p. 710)
- Economics - Applied Economics, BA (p. 709)
- Economics - Mathematical Economics, BA (p. 709)
- Economics - Political Economy, BA (p. 710)
- Education, Certificate (p. 503)
- Education, Minor (p. 520)
- Education - Bilingual/Cross-Cultural Option, MA (p. 506) - Not offered 2015-16 AY
- Education - Career and Technical Education Option, MA (p. 441)
- Education - Correctional & Alternative Education Option, MA (p. 515) - Not offered 2015-16 AY
- Education - Curriculum and Instruction Option, MA (p. 507)
- Education - Holistic and Integrative Education Option, MA (p. 509) - Not offered 2015-16 AY
- Education - Instructional Technology Option, MA (p. 443)
- Education - Kinesiology Option, MA (p. 510)
- Education - Mathematics and Science Education Option, MA (p. 517)
- Education - Reading and Literacy Option, MA (p. 511)
- Education - Special Education Option, MA (p. 466)
- Education - Teacher Leadership Option, MA (Offered through the College of Extended Learning) (p. 445)
- Education - Teaching English to Speakers of Other Languages (TESOL) Option, MA (p. 513)
- Education of the Gifted and Talented, Certificate (p. 460)
- Education Specialist Clear Credential (p. 461)
- Educational Administration, MA (p. 446)
- Educational Leadership, EdD (p. 439)
- Educational Technology, Certificate (p. 438)
- E-Learning, Certificate (p. 438)
- English, BA (p. 236)
- English Composition, MA (p. 239)
- English, Minor (p. 244)
- Entrepreneurship, Minor (p. 413)
- Environmental Studies, BA (p. 717)
- Environmental Studies, Minor (p. 720)
- Ethnic Studies - Chicano(a)/Latino(a) Studies, Minor (p. 787)
- Ethnic Studies, Minor (p. 785)
- Film Studies, Minor (p. 220)
- Finance, Minor (p. 413)
- Fitness Management, Certificate (p. 615)
- French, BA (p. 329)
- French/English Translation, Certificate (p. 335)
- French, Minor (p. 340)
- Gender and Sexuality Studies, Certificate (p. 504)
- Gender and Sexuality Studies, Minor (p. 521)
- General Experimental Psychology, MA (p. 767)
- Geographic Information Systems, Certificate (p. 720)
- Geography - Geography Option, BA (p. 719)
- Geography - Global Studies, Minor (p. 721)
- Geography - Global Studies Option, BA (p. 719)
- Geography, Minor (p. 721)
- Geology, BA (p. 580)
- Geology, BS (p. 581)
- Geology - Integrated Teaching Track, BA (p. 580)
- German/English Translators, Certificate (p. 332)
- German, Minor (p. 340)
- Gerontology, Certificate (p. 601)
- Graphic Design - Print, Minor (p. 199)
- Graphic Design - Web, Minor (p. 199)
- Health Care Management, Certificate (p. 602)
- Healthcare Spanish, Certificate (p. 337)
- Health Equity and Health Disparities, Certificate (p. 797)
- Health Science, BS (p. 597)
- Health Science, Minor (p. 601)
- Health Services Administration, MS (p. 600)
- Hispanic Literatures, Certificate (p. 335)
- History, BA (p. 728)
- History, Minor (p. 731)
- Holistic and Integrative Education, Certificate (p. 505)
- Human Development - Child Development Track, BA (p. 757)
- Human Development - Lifespan Track, BA (p. 758)
- Human Development - School Age Track, BA (p. 759)
- Human Resources Management, Minor (p. 414)
- Information Systems and Technology, BS (p. 392) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)
- Information Systems and Technology, Minor (p. 414)
- Information Systems Management, Certificate (p. 373)
- Intelligence Methodology, Certificate (p. 738)
- Intercultural Communication, Minor (p. 220)
- Interdisciplinary Studies, MA (p. 799)
- International Business, Minor (p. 414)
- International Relations, Certificate (p. 739)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization Credential (p. 465)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization Credential (p. 461)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization Credential (p. 463)
- Introductory Actuarial Science, Certificate (p. 632)
- Introductory Mathematics, Certificate (p. 632)
- Islamic and Middle Eastern Studies, Certificate (p. 679)
- Islamic and Middle Eastern Studies, Minor (p. 787)
- Japanese, Minor (p. 341)
- Japanese Language and Culture, Certificate (p. 336)



- Jazz Studies, Minor (p. 264)
- Kinesiology - Allied Health Professions, BS (p. 612)
- Kinesiology - Exercise Science, BS (p. 613)
- Kinesiology - Pedagogy, BS (p. 613)
- Kinesiology, Minor (p. 615)
- Latin American Studies, Certificate (p. 690)
- Latin American Studies, Minor (p. 353)
- Law and Philosophy, Minor (p. 271)
- Liberal Studies - Arts and Letters Track (Non-credential), BA (p. 342)
- Liberal Studies - General Track (Pre-credential), BA (p. 343)
- Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential), BA (p. 347)
- Liberal Studies - Spanish Studies Track, BA (p. 350)
- Management, Minor (p. 414)
- Marketing, Minor (p. 415)
- Mathematics and Science Education Option (p. 517)
- Mathematics, BA (p. 626)
- Mathematics, BS (p. 627)
- Mathematics, MA (p. 629)
- Mathematics, Minor (p. 631)
- Mathematics - Teaching Track, BA (p. 626)
- Military Science (Army ROTC) Program (p. 784)
- Multiple Subject Credential (p. 523)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential (p. 521)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) Credential (p. 525)
- Museum Studies, Certificate (p. 690)
- Music, BA (p. 260)
- Music, BM (p. 261) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)
- Music, Minor (p. 264)
- National Security Studies, MA (p. 776)
- National Cyber Security Studies, MS (p. 782)
- Native Nations/Indigenous Peoples Studies, Certificate (p. 680)
- Nursing, BS (p. 641)
- Nursing, MS (p. 644)
- Nursing - RN to BSN Bridge Program, BS (p. 642)
- Nutrition and Food Sciences, BS (p. 598)
- Nutrition and Food Sciences, Minor (p. 601)
- Philosophical Logic, Minor (p. 271)
- Philosophy, BA (p. 270)
- Philosophy, Minor (p. 272)
- Philosophy, Policy, and Economics, Minor (Department of Economics) (p. 710)
- Philosophy, Policy, and Economics, Minor (Department of Philosophy) (p. 272)
- Physics - Applied Physics, BS (p. 651)
- Physics, BA (p. 650)
- Physics, BS (p. 650)
- Political Economy, Minor (p. 711)
- Political Science, BA (p. 738)
- Political Science, Minor (p. 739)
- Pre-Law, Minor (p. 739)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization Credential (p. 473)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization Credential (p. 474)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization Credential (p. 476)
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 479)
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 478)
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 478)
- Psychology, BA (p. 762)
- Psychology - Industrial and Organizational Psychology Concentration, BA (p. 763)
- Psychology - Biological Psychology, BA (p. 764)
- Psychology, Minor (p. 770)
- Psychology, MS (p. 768)
- Public Administration, Minor (p. 415)
- Public Administration, MPA (p. 407)
- Public Health, MPH (p. 599)
- Public Relations, Minor (p. 220)
- Pupil Personnel Services Credential: School Counseling (p. 479)
- Pupil Personnel Services Credential: School Psychology (p. 480)
- Puppetry, Certificate (p. 285)
- Reading and Literacy, Certificate (p. 505)
- Reading and Literacy Leadership Specialist Credential (p. 527)
- Real Estate, Minor (p. 415)
- Recording Arts, Minor (p. 264)
- Recreation Leadership, Certificate (p. 615)
- Recreation, Minor (p. 616)
- Rehabilitation Counseling, Certificate (p. 460)
- Rehabilitation Counseling, MA (p. 469)
- School Business Management, Certificate (p. 438)
- Master of Science in Science, Technology, Engineering and Mathematics Education, MS (p. 518)
- Script Writing, Minor (p. 221)
- Single Subject - Intern Track (p. 528)
- Single Subject - Student Teaching Track (p. 530)
- Social Sciences - Credential Track, BA (p. 673)
- Social Sciences and Globalization, MA (p. 778)
- Social Sciences - Multidisciplinary Track, BA (p. 674)
- Social Services, Certificate (p. 776)
- Social Work, BA (p. 793)
- Social Work, MSW (p. 794)
- Sociology, BA (p. 774)
- Sociology, Minor (p. 776)
- Sociology - Social Service Track, BA (p. 775)
- Spanish, BA (p. 330)
- Spanish, MA (p. 338)

- Spanish, Minor (p. 341)
- Spanish Applied Linguistics, Certificate (p. 336)
- Spanish for Public Services, Certificate (p. 337)
- Special Education, MS (p. 471) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)
  
- Special Major, BA (p. 796)
- Sports and Entertainment Marketing, Minor (p. 415)
- Studio Art, Minor (p. 199)
- Studio Art, MFA (p. 198)
- Supervision and Coordination of Designated Subjects Program (p. 447)
- Supply Chain Management, Certificate (p. 373)
- Supply Chain Management, Minor (p. 415)
- Teaching English as a Second Language, Certificate (p. 237)
- Teaching-Mathematics, MA (p. 630)
- Teaching Writing, Certificate (p. 237)
- Theatre Arts, BA (p. 284)
- Theatre Arts, MA (not offered in the 2015-16 Academic Year)
- Theatre Arts, Minor (p. 287)
- Theatre for Youth, Certificate (p. 286)
- Urban Planning, Certificate (p. 720)
- Writing: Creative Writing, Certificate (p. 238)
- Writing: Professional Writing, Certificate (p. 238)

# Colleges, Schools, and Departments

---

---

- College of Arts and Letters (p. 171)
  - Department of Art (p. 180)
  - Department of Communication Studies (p. 201)
  - Department of English (p. 222)
  - Department of Music (p. 246)
  - Department of Philosophy (p. 266)
  - Department of Theatre Arts (p. 273)
  - Department of World Languages and Literatures (p. 290)
  - Liberal Studies Program (p. 342)
- College of Business and Public Administration (p. 355)
  - Department of Accounting and Finance (p. 374)
  - Department of Information and Decision Sciences (p. 385)
  - Department of Management (p. 392)
  - Department of Marketing (p. 398)
  - Department of Public Administration (p. 403)
- College of Education (p. 417)
  - Department of Educational Leadership and Technology (p. 424)
  - Department of Special Education, Rehabilitation and Counseling (p. 448)
  - Department of Teacher Education and Foundations (p. 482)
- College of Natural Sciences (p. 532)
  - Department of Biology (p. 536)
  - Department of Chemistry and Biochemistry (p. 558)
  - Department of Geological Sciences (p. 572)
  - Department of Health Science and Human Ecology (p. 583)
  - Department of Kinesiology (p. 603)
  - Department of Mathematics (p. 617)
  - Department of Nursing (p. 634)
  - Department of Physics (p. 646)
  - School of Computer Science and Engineering (p. 652)
- College of Social and Behavioral Sciences (p. 666)
  - Department of Anthropology (p. 681)
  - Department of Criminal Justice (p. 693)
  - Department of Economics (p. 705)
  - Department of Geography and Environmental Studies (p. 712)
  - Department of History (p. 722)
  - Department of Political Science (p. 732)
  - Department of Psychology (p. 740)
  - School of Social Work (p. 787)
  - Department of Sociology (p. 771)
- Graduate Interdisciplinary Studies (p. 799)
- Undergraduate Interdisciplinary Studies (p. 796)

## 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>)
- Liberal Studies Program (<http://liberalstudies.csusb.edu>)

### Bachelor of Arts

- American Studies

### Minor

- Latin American Studies

## Undergraduate Degrees

### Bachelor of Arts

- American Studies (p. 179)

**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 or a single subject credential information in the Basic Teaching Credential Programs (p. 483) in the Department of Teacher Education and Foundations section (p. 482) of the catalog.

### Minor

- Minor in Latin American Studies (p. 353)

**Coordinator:** Carmen Jany

## American Studies Courses

### AMST 300. Introduction to American Studies. 4 Units.

Concepts and methods essential to an interdisciplinary approach to American literature and art in a historical context.

### AMST 590. Special Topics in American Studies. 4 Units.

Prerequisites: AMST 300; ART 311; HUM 344; one of the following: ENG 325, 326 or 333; and consent of department

Advanced independent study of selected figures, themes, or periods in American literature and art in a historical context. May be repeated for credit as topics change.

## Humanities 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 Cultures 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)

Examines the ways in which cultural and sub-cultural groups use art, music, film, television, literature, behavior, and other expressive forms to construct their identities and to impose identities upon other cultural groups.

**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 Languages 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 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

English 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

Humanities Integration of educational philosophy and pedagogical concepts with the specific teaching materials of disciplines in the humanities. This course may not be counted toward fulfilling requirements of courses in the majors below. May be repeated for credit as topics change.

### **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 575A. Internship in Service Learning. 1 Unit.**

Prerequisites: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit.

### **HUM 575B. Internship in Service Learning. 2 Units.**

Prerequisites: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit.

### **HUM 575C. Internship in Service Learning. 3 Units.**

Prerequisites: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit.

### **HUM 575D. Internship in Service Learning. 4 Units.**

Prerequisites: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit.

**HUM 575E. Internship in Service Learning. 5 Units.**

Prerequisites: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor  
Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit.

**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 581F. International Experience: Portuguese. 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 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)

HIST 146	American Civilization	4
PSCI 203	American Government	4
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)

AMST 300	Introduction to American Studies	4
HUM 344	Ideas in American Culture	4

#### American Arts (12)

ART 311	Art of the United States to the End of the Nineteenth Century	4
---------	---	---

Eight units chosen from: 8

- 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

ART 329	Chicano Art	
MUS 309	Jazz History in America and African-American Culture	
MUS 351	Latin American Music	
TA 461	American Drama	
TA 462	African-American Theatre and Drama	
TA 468	Chicana/o and U.S. Latina/o Theatre	

#### Historical and Social Contexts (24)

Historical Periods. Twelve units chosen from: 12

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	United States History, Cold War Era	

Social and Political Contexts. Twelve units chosen from: 12

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. 4

#### Culminating Experience (4)

Four units chosen from: 4

AMST 590	Special Topics in American Studies	
----------	------------------------------------	--

ENG 515	Senior Seminar in Literature (with appropriate topic approved by American Studies coordinator)
---------	--

Total Units

72

## 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.csus.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, Emphasis A (Visual Studies: Art Education/Art Therapy)

### 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

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 of 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

B.F.A. 1997, M.F.A. 2005, Utah State University

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 Lintault, 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. 190)) (<http://bulletin.csusb.edu/colleges-schools-departments/arts-letters/art/art-plan-education-ba>)
- Art - Plan II (Studio Art) (p. 192)
- Art - Plan III (Art History) (p. 193)
- Art - Plan IV (Graphic Design) (p. 194)
- Art - Plan V (Graphic Design and Marketing) (p. 195)

## Graduate Degrees

### Master of Arts in Art

- Art Education (p. 195)
- Studio Art (p. 196)

### Master of Fine Arts

- Studio Art (p. 198)

## Minors

- Art History (p. 199)
- Film Studies (p. 220) (The Department of Art participates in the interdisciplinary minor in Film Studies.)
- Graphic Design: Print (p. 199)
- Graphic Design: Web (p. 199)
- Studio Art (p. 199)

## Certificate Program

- Business Skills for the Artist (p. 195)

## 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, visiting 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 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 496 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. 5 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, design, or visual studies. May be repeated for a maximum of 10 units in the major. Materials fee required. Graded Credit/No Credit.

**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, design, or visual studies. May be repeated for a maximum of 10 units in the major. Materials fee required. Graded Credit/No Credit.

**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, design, or visual studies. May be repeated for a maximum of 10 units in the major. Materials fee required. Graded Credit/No Credit.

**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, design, or visual studies. May be repeated for a maximum of 10 units in the major. Materials fee required. Graded Credit/No Credit.

**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, design, or visual studies. May be repeated for a maximum of 10 units in the major. Materials fee required. Graded Credit/No Credit.

**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 or M.F.A. in Studio Art and Design

Corequisites: For M.A. students concurrent enrollment in ART 615 and ART 620; For M.F.A students concurrent enrollment in ART 620

Investigation of advanced studio problems focusing on the development of individual directions. Materials fee required. Formerly ART 605. May be repeated for credit, corequisite not required after completion of 30 units.

**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 (course units: 2). For the M.F.A. in Studio Art and Design, ART 620 must be taken concurrently with ART 604 for 24 units (course units 4) and then may be taken for up to 12 more units for a total of no more than 36 units. 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. For the M.F.A. in Studio Art and Design, ART 620 must be taken concurrently with ART 604 for 24 units (course units 4) and then may be taken for up to 12 more units for a total of no more than 36 units. 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

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. 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 arts 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 Writing and Criticism.

Emphasis C is designed for students who wish to pursue interdisciplinary paths in curating, writing, community-based art, participatory art and/or other areas in which art and the public intersect.

### Requirements for the B.A. in Art - Plan I

#### Lower-division requirements (45)

ART 120	Introduction to Two Dimensional Design	4
ART 121	Introduction to Three Dimensional Design	4
ART 122	Introduction to Drawing and Life Drawing	4
ART 123	Introduction to Art and Technology	4
ART 125	Freshman Seminar: Art and Society I	2
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 291	Beginning Digital Photography	5
Ten units chosen from:		10
ART 235	Beginning Painting	
ART 240	Beginning Sculpture	
ART 254	Beginning Ceramics	
ART 260	Beginning Printmaking	

**Upper-division requirements (23)**

History of Art		
ART 420	Art from 1900 to the Present	4
Chose one of the following courses:		4
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 440	History, Philosophy, and Theories of Visual Studies	4
ART 575B	Internship	2
Total Units		68

Visual Studies Majors choose one of the following three emphases:

**Emphasis A:****Art Education/Art Therapy (29)**

ART 460	Art and Human Development	4
ART 540	Art and Community	5
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	

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	
Media Arts		
ART 326	Interactive Multimedia Design	
ART 350	Introduction to Digital Illustration	
ART 387	Video Art	
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	

Note: Students wishing to pursue Art Therapy should take a minimum of 4 courses in Psychology (5 are recommended) and these must include PSYC 201 and PSYC 390.

Total Units 29

**Emphasis B:****Art Writing and Criticism (29)**

ART 414	Senior Studio Critique	4
ART 520	Contemporary Art, Theory and Criticism	4
ART 530	Art Writing	4
ART 540	Art and Community	5
or ART 595E	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 29

**Emphasis C:****Public Practices in Art (29)**

Chose five courses totaling 19 units from the following: 19

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	
ART 387	Video Art	



ART 441	Public Art	
ART 595A	Independent Study	
ART 595B	Independent Study	
ANTH 341	Globalization and Culture	
ANTH 375	Museum Methods	
ANTH 376	Exhibit Design	
COMM 380	Visual Communication	
COMM 409	Latina/os, Media and Culture	
COMM 410	Asian Media and Culture	
COMM 411	Gender and Communication	
Total Units		29

## 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)

ART 120	Introduction to Two Dimensional Design	4
ART 121	Introduction to Three Dimensional Design	4
ART 122	Introduction to Drawing and Life Drawing	4
ART 123	Introduction to Art and Technology	4
ART 125	Freshman Seminar: Art and Society I	2
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 291	Beginning Digital Photography	5
Select three courses from lower-division studio art courses:		15
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	

#### Upper-division requirements (46)

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

Group A:		
ART 305	Women and Art	
ART 306	Greek and Roman Art	
ART 310	Asian Art	
ART 311	Art of the United States to the End of the Nineteenth Century	
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	
ART 333	History of Graphic Design	
ART 334	History of Animation	
ART 359	History of Photography	
ART 410	Studies in Art History	
ART 420	Art from 1900 to the Present	
ART 423	Nineteenth Century European Art	
ART 520	Contemporary Art, Theory and Criticism	
ART 525	Seminar in Art History	
Group B:		
ART 420	Art from 1900 to the Present (if not taken in Group A above)	
ART 520	Contemporary Art, Theory and Criticism (if not taken in Group A above)	

Studio Art Courses. Select any six five-unit courses for a total of 30 units (see options below)

#### Senior Capstone Courses:

ART 414	Senior Studio Critique	4
ART 415	Senior Seminar: Art and Society II	2
ART 416	Senior Project	2
Total Units		96

### 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

ART 304	Advanced Drawing and Life Drawing	5
ART 335	Intermediate Painting	5
ART 336	Advanced Painting	5
ART 361	Intermediate Printmaking	5
ART 362	Advanced Printmaking	5
ART 366	Topics in Studio Art	5
ART 391	Intermediate Photography	5
ART 492	Advanced Photography	5

#### Three Dimensional Spatial Arts

ART 308	Intermediate Woodworking and Furniture Design	5
ART 340	Intermediate Sculpture	5
ART 341	Advanced Sculpture	5
ART 355	Intermediate Ceramics	5
ART 357	Advanced Ceramics	5
ART 369	Advanced Woodworking and Design	5
ART 370	Intermediate Glass	5
ART 373	Installation Art	5
ART 396	New Genres	5

ART 441	Public Art	5
ART 471	Advanced Glass	5

### Digital Arts

ART 320	Digital Image Editing	5
ART 322	Web Design	5
ART 325	Advanced Digital Image Editing	5
ART 326	Interactive Multimedia Design	5
ART 337	Interactive and Motion-Graphic	5
ART 350	Introduction to Digital Illustration	5
ART 351	Advanced Digital Illustration	5
ART 382	Computer Animation: 3D Modeling	5
ART 383	Computer Animation: Character Modeling	5
ART 384	Digital Motion Imaging	5
ART 385	Sound Design for Multimedia	5
ART 387	Video Art	5
ART 388	Digital Lighting	5
ART 422	Dynamic Web Site Design	5

## Bachelor of Arts in Art - Plan III (Art History)

### Requirements (89 units)

**Total units required for graduation: 180**

This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies.

### Requirements for the B.A. in Art - Plan III

#### Lower-division requirements (35)

ART 120	Introduction to Two Dimensional Design	4
ART 121	Introduction to Three Dimensional Design	4
ART 122	Introduction to Drawing and Life Drawing	4
ART 123	Introduction to Art and Technology	4
ART 125	Freshman Seminar: Art and Society I	2
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 291	Beginning Digital Photography	5

#### Upper-division requirements (42)

History of Art 24

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.

##### Group A:

ART 305	Women and Art
ART 306	Greek and Roman Art
ART 316	Arts of the Ancient Near East and Egypt
ART 321	Renaissance Art
ART 327	Baroque and Rococo Art

##### Group B:

ART 311	Art of the United States to the End of the Nineteenth Century
ART 333	History of Graphic Design
ART 334	History of Animation
ART 359	History of Photography
ART 420	Art from 1900 to the Present
ART 423	Nineteenth Century European Art
ART 520	Contemporary Art, Theory and Criticism
Group C:	
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

Upper-division studio art courses (Note: Some courses listed require lower division prerequisites.)

Two five-unit courses chosen from: 10

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 330	Animation and Web Motion-Graphics	
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 366	Topics in Studio Art	
ART 369	Advanced Woodworking and Design	
ART 370	Intermediate Glass	
ART 373	Installation Art	
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	
ART 396	New Genres	
ART 422	Dynamic Web Site Design	
ART 441	Public Art	
ART 471	Advanced Glass	
ART 492	Advanced Photography	
ART 415	Senior Seminar: Art and Society II	2

ART 416	Senior Project	2
ART 525	Seminar in Art History	4
<b>Foreign language requirement (12)</b>		
Twelve units or three quarters of one foreign language or equivalent proficiency.		12
Total Units		89

## Bachelor of Arts in Art - Plan IV (Graphic Design)

### Requirements (95 units)

**Total units required for graduation: 180**

This program is designed for students with a strong professional interest in graphic design for electronic, digital, and print media.

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

#### Lower-division requirements (36)

ART 120	Introduction to Two Dimensional Design	4
ART 121	Introduction to Three Dimensional Design	4
ART 122	Introduction to Drawing and Life Drawing	4
ART 124	Introduction to Digital Media Design	4
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 232	Principles of Design Management	4
ART 238	Production of Visual Information Design	4

#### Upper-division requirements (49)

Art history. Four units chosen from:		4
ART 305	Women and Art	
ART 306	Greek and Roman Art	
ART 310	Asian Art	
ART 311	Art of the United States to the End of the Nineteenth Century	
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	
ART 334	History of Animation	
ART 359	History of Photography	
ART 410	Studies in Art History	
ART 420	Art from 1900 to the Present	
ART 423	Nineteenth Century European Art	
ART 520	Contemporary Art, Theory and Criticism	
ART 525	Seminar in Art History	
ART 322	Web Design	5
ART 333	History of Graphic Design	4
ART 342	Graphic Design I	5

ART 343	Graphic Design II	5
ART 344	Graphic Design III	5
ART 384	Digital Motion Imaging	5
ART 442	Graphic Design IV	5
ART 443	Graphic Design V	5
ART 415	Senior Seminar: Art and Society II	2
MKTG 305	Marketing Principles	4

#### Elective studio art courses (10)

Two five-unit courses chosen from:		10
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	
ART 304	Advanced Drawing and Life Drawing	
ART 308	Intermediate Woodworking and Furniture Design	
ART 313	Printing Production	
ART 320	Digital Image Editing	
ART 325	Advanced Digital Image Editing	
ART 326	Interactive Multimedia Design	
ART 330	Animation and Web Motion-Graphics	
ART 335	Intermediate Painting	
ART 336	Advanced Painting	
ART 337	Interactive and Motion-Graphic	
ART 340	Intermediate Sculpture	
ART 341	Advanced Sculpture	
ART 350	Introduction to Digital Illustration	
ART 351	Advanced Digital Illustration	
ART 355	Intermediate Ceramics	
ART 357	Advanced Ceramics	
ART 361	Intermediate Printmaking	
ART 362	Advanced Printmaking	
ART 366	Topics in Studio Art	
ART 369	Advanced Woodworking and Design	
ART 370	Intermediate Glass	
ART 373	Installation Art	
ART 382	Computer Animation: 3D Modeling	
ART 383	Computer Animation: Character Modeling	
ART 385	Sound Design for Multimedia	
ART 387	Video Art	
ART 388	Digital Lighting	
ART 391	Intermediate Photography	
ART 396	New Genres	
ART 422	Dynamic Web Site Design	
ART 441	Public Art	
ART 471	Advanced Glass	
ART 492	Advanced Photography	

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)

ACCT 211	Introductory Accounting I	4
ART 120	Introduction to Two Dimensional Design	4
ART 124	Introduction to Digital Media Design	4
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 232	Principles of Design Management	4
ART 238	Production of Visual Information Design	4
Four units chosen from:		4
ECON 200	Principles of Microeconomics	
ECON 202	Principles of Macroeconomics	
MGMT 100	Introduction to Business and Public Administration	

#### Upper-division requirements (50)

ART 333	History of Graphic Design	4
ART 342	Graphic Design I	5
ART 343	Graphic Design II	5
ART 344	Graphic Design III	5
ART 384	Digital Motion Imaging	5
ART 442	Graphic Design IV	5
ART 443	Graphic Design V	5
MKTG 305	Marketing Principles	4
MKTG 410	Consumer Behavior	4
MKTG 420	Advertising	4
MKTG 446	Advertising Campaign	4

#### Electives (12)

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	

MKTG 590 Seminar in Marketing

Total Units 98

## 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

ACCT 211	Introductory Accounting I	4
MGMT 442	Small Business Management	4
MKTG 305	Marketing Principles	4
Twenty units of upper-division studio art courses chosen in consultation with an advisor.		20
Total Units		32

## 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 in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Completion of one year, K-12 art teaching experience
7. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following items:
  - a. A portfolio review displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study within the studio area. A portfolio consists of 12–20 images of the applicant's artworks and 12-20 images of applicant students' work in the form of jpegs or on a CD. The portfolio must be accompanied by a typed list of artworks with the applicant's name, and title, medium, size and date for each artwork.
  - b. A two- to three-page typed "Statement of Purpose" describing the conceptual and technical aspects of the artwork in the portfolio and the applicant's reason for seeking graduate studies in art education. This statement should also demonstrate applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will be used by the committee to evaluate the student's writing and critical thinking skills.
  - c. Three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in art and/or related fields who are able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.
  - d. Applicants will submit a current Vitae and an interview will be arranged by the art education faculty and/or the Graduate Coordinator. During this interview, applicants will write a short response paper on selected issues in art education.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation may be admitted to the program with conditionally classified standing. They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements. Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

Applications to the M.A. in Art, Art Education program are reviewed annually for Fall admission. The completed application deadline is March 15 for both the university and M.A. in Art, Art Education Program.

Contact the Art Department graduate coordinator to request a program application and further information.

### Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art with an emphasis in Art Education, and is thus eligible to enroll in ART 696. To be formally advanced to candidacy, the student must have:

1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program

as possible, and prior to taking any art history course work in the department;

2. Achieved classified status;
3. Been accepted by an art education advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and art education advisor;
6. Filed a program of graduate course work prepared in consultation with the student's art education advisor and approved by the Art Department graduate coordinator.

### Requirements for Graduation

1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable art project, a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator, and a substantial art education research paper that will be presented during a public forum;
4. The graduation writing requirement is met upon successful completion of the art education research paper that accompanies the master's project in ART 696;
5. Any general requirements not cited above for graduate degrees and noted in Graduate Degree and Program Requirements (p. 60).

### Degree Requirements (45 units)

ART 520	Contemporary Art, Theory and Criticism	4
ART 595A-F	Independent Study (chosen in consultation with the art education advisor)	7
ART 596	Strategies for Curriculum and Instruction	4
ART 603	Graduate Studio in Art (for a total of 8)	8
ART 620B	Graduate Studio Critique (for a total of 4)	4
ART 618	Graduate Seminar in Contemporary Art Issues and Practices	4
ART 641	Art Education: Survey of Research and Methodologies	4
ART 643	Art Education: Research Statement and Literature Review	2
ART 696	Art Education: Master's Project in Art Education	4
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.		4
<b>Total Units</b>		<b>45</b>

### 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)

ART 520	Contemporary Art, Theory and Criticism	4
Fifteen units in a single area of concentration chosen from:		15
ART 603	Graduate Studio in Art	
ART 604	Graduate Studio in Art	
ART 615A-D	Graduate Seminar in Art (for a total of 4 units)	4
ART 620B	Graduate Studio Critique (for a total of 6)	6
ART 630	Professional Practices in the Visual Arts	4
ART 695D	Masters Project in Studio Art	4
Four units of upper-division art history courses chosen with prior approval of the student's area advisor and the art department graduate coordinator.		4
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.		4
Total Units		45

# Master of Fine Arts in Studio Art

## 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 artworks 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 January 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 a 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 acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator;
4. The graduation writing requirement is met upon successful completion of the written report that accompanies the master's project in ART 695;
5. Any general requirements not cited above for graduate degrees and noted in Graduate Degree and Program Requirements (p. 60).

## Degree Requirements (90 units)

ART 595A-F	Independent Study (for a total of 5 units)	5
ART 604	Graduate Studio in Art (for a total of 30)	30

ART 617	Graduate Seminar in Critical Theory and Methodology	4
ART 618	Graduate Seminar in Contemporary Art Issues and Practices	4
ART 620D	Graduate Studio Critique (for a total of 24)	24
ART 630	Professional Practices in the Visual Arts	4
ART 695E	Masters Project in Studio Art	5
Art History Elective (to be approved by the graduate coordinator.)		4
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.		10
<b>Total Units</b>		<b>90</b>

## Minor in Art History

### Requirements (32 units)

#### Requirements for a minor in Art History

##### Lower-division requirements (16)

ART 200	Studies in Art	4
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4

##### Upper-division requirements (16)

Art history		
Sixteen units chosen from:		16
ART 305	Women and Art	
ART 306	Greek and Roman Art	
ART 310	Asian Art	
ART 311	Art of the United States to the End of the Nineteenth Century	
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	
ART 333	History of Graphic Design	
ART 334	History of Animation	
ART 359	History of Photography	
ART 410	Studies in Art History	
ART 420	Art from 1900 to the Present	
ART 423	Nineteenth Century European Art	
ART 520	Contemporary Art, Theory and Criticism	
ART 525	Seminar in Art History	
<b>Total Units</b>		<b>32</b>

## Minor in Graphic Design - Print

### Requirements (33 units)

#### Requirements for a minor in Graphic Design - Print

ART 232	Principles of Design Management	4
ART 238	Production of Visual Information Design	4
ART 342	Graphic Design I	5
ART 343	Graphic Design II	5
ART 344	Graphic Design III	5
ART 442	Graphic Design IV	5
ART 443	Graphic Design V	5
<b>Total Units</b>		<b>33</b>

## Minor in Graphic Design - Web

### Requirements (33 units)

#### Requirements for a minor in Graphic Design - Web

ART 232	Principles of Design Management	4
ART 238	Production of Visual Information Design	4
ART 320	Digital Image Editing	5
ART 322	Web Design	5
ART 326	Interactive Multimedia Design	5
ART 337	Interactive and Motion-Graphic	5
ART 422	Dynamic Web Site Design	5
<b>Total Units</b>		<b>33</b>

## Minor in Studio Art

### Requirements (43 units)

#### Requirements for a minor in Studio Art

##### Lower-division requirements (28)

ART 120	Introduction to Two Dimensional Design	4
ART 121	Introduction to Three Dimensional Design	4
ART 122	Introduction to Drawing and Life Drawing	4
ART 123	Introduction to Art and Technology	4
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4

##### Studio course (5)

One lower-division course chosen from:		5
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: 10

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

ART 396 New Genres

ART 422 Dynamic Web Site Design

ART 471 Advanced Glass

ART 492 Advanced Photography

Total Units 43

# Department of Communication Studies

## Department of Communication Studies

University Hall, Room 018

(909) 537-5815 Department of Communication Studies website (<http://communication.csusb.edu>)

University Hall, Room 201.9

(909) 537-5780 Asian Studies website (<http://asianstudies.csusb.edu>)

## 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

C. Rod Metts

Ph.D. 1994, Ohio 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

M.B.A. 1983, M.F.A. 1985, M.A. 2003, Ph.D. 2006, University of Southern California

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, 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. 212)
  - Human Communication and Organizational Communication
  - Media Studies
  - Public Relations

## Graduate Degrees

### Master of Arts

- Communication Studies (p. 216) with tracks in
  - Communication Studies
  - Integrated Marketing Communication

## Minors

- Asian Studies (p. 218)
  - Coordinator:** Rueyling Chuang
- Communication (p. 219)
- Film Studies (p. 220)
- Intercultural Communication (p. 220)
- Public Relations (p. 220)
- Script Writing (p. 221)

## Certificate Programs

- Asian Studies (p. 214)
  - Coordinator:** Rueyling Chuang
- Communication Skills (p. 215)
- Conflict Management (p. 215)

## 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. 236) as well as the following:

COMM 304	Intercultural Communication	4
COMM 382	Intercollegiate Forensics	3
COMM 431	Classroom Communication	4
Four units chosen from:		4
COMM 305	Critical Approaches to Communication	
COMM 308	Argumentation	
COMM 312	Persuasion	
COMM 401	Gender, Race and Media	
COMM 411	Gender and Communication	
Four units chosen from:		4
COMM 306	Communication Theory	
COMM 403	Interpersonal Relations	
COMM 422	Communication and Conflict	
Four units chosen from:		4

COMM 309	Digital Media and Communication	
COMM 342	Publication Design and Makeup	
COMM 344	Public Relations Communication	
COMM 381	The Development of Motion Pictures	
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

Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.

Students must include the following among their General Education Requirements:

ENG 110	World Literature I	4
or ENG 111	World Literature II	
TA 260	Introduction to Theatre	4

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements for the single subject (p. 482) credential program, contact the Credentials Office, CE-102.

**Note:** Completing the requirements of the teaching credential in English with a concentration in Communication Studies does NOT in itself satisfy the requirements for the major in either Communication or English.

## Courses

### COMM 120. Oral Communication. 4 Units.

(GE=A2)

Introduction to effective speech communication with emphasis on informative and persuasive public speaking and presentation skills.

### COMM 180. Critical Thinking Through Argumentation. 4 Units.

(GE=A4)

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 364. 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 365. 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 367. Topics in Public Relations. 4 Units.**

Special topics in public relations. May be repeated for credit as topics change.

### **COMM 378. 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 380. 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 381. 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 382. 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, 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 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-realism 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 the 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 675. Strategic Planning in Public Relations. 4 Units.**

Applied research in public relations. Involves conducting research within and for organizations to help them achieve their public relations goals. Course takes a strategic management perspective that is goal oriented and requires planning and research.

**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 Associates in Communication Studies. 1 Unit.**

For students appointed as teaching associates 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 nine units. A maximum of two units of COMM 689 credit may be applied toward the M.A. degree. 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, or consent of instructor

Intensive study of selected topics in public relations. May be repeated once 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 Media Studies. 4 Units.**

Intensive study of selected topics in media studies. May be repeated once 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

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.

### Communication Practica (8)

Students must choose eight units from at least two of the following: 8

COMM 243A	Communication Practicum: Print and Online Journalism	
COMM 243B	Communication Practicum: Radio	
COMM 243C	Communication Practicum: Video Production for Journalism.	
COMM 243D	Communication Practicum: Public Relations	
COMM 382	Intercollegiate Forensics	
COMM 399A	Community Service Project	
COMM 399B	Community Service Project	
COMM 444A	Advanced Communication Practicum: Television	
COMM 444B	Advanced Communication Practicum: Research	
COMM 444C	Advanced Communication Practicum: Research	
COMM 444D	Advanced Communication Practicum: Mentoring	
COMM 591B-E	Internship in Communication	

### 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. 20

### Concentration (28)

See concentration.

A minimum of 28 units from one of the following concentrations below to be chosen in consultation with an advisor. 28

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: 8

COMM 307	Rhetorical Theory	
COMM 403	Interpersonal Relations	
COMM 421	Organizational Communication	

### 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: 20

COMM 204	Introduction to Critical Communication Studies	
COMM 221	Small Group Communication	

COMM 225	Fundamentals of Interpersonal Communication	
COMM 302	Communication, Language and Culture	
COMM 305	Critical Approaches to Communication	
COMM 307	Rhetorical Theory	
COMM 308	Argumentation	
COMM 311	Business and Professional Communication	
COMM 312	Persuasion	
COMM 330	Nonverbal Communication	
COMM 331	Communication for Training Programs	
COMM 364	Topics in Human and Organizational Communication	
COMM 402	Ethnography of Communication	
COMM 403	Interpersonal Relations	
COMM 411	Gender and Communication	
COMM 421	Organizational Communication	
COMM 422	Communication and Conflict	
COMM 431	Classroom Communication	
COMM 441	Interviewing	
COMM 471	International Communication	
COMM 502	Communication Law and Policy	
COMM 511	Feminist Contributions to Communication Theories	
COMM 522	Mediation Theory and Practice	
COMM 543	Environmental Communication	
COMM 560	Health Communication	
COMM 564	Advanced Topics in Human and Organizational Communication	
COMM 580	Culture and Ethnicity in Language	
COMM 581	Contemporary Theories of Rhetoric	
COMM 593A-D	Communication Approaches to Area Studies:	
COMM 595D	Independent Study	

Total Units 28

**Note:** Students transferring from a California community college with an acceptable AAT degree in Communication Studies will receive up to 15 units of transfer credit for the Human and Organizational Communication concentration, in the following categories:

- Communication Practica - 3 credits
- Communication Electives - 4 credits
- Concentration Electives - 8 credits

## 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: 16

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 342	Publication Design and Makeup	

COMM 343	Nonfiction Reporting and Writing	
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 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-E	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:			8
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-E	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.

## 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:		8
ANTH 362	Asian Cultures and Societies	
FIN 355	Business and Asian Culture	
HUM 328	Asian Cultural Traditions	
Four units of foreign language study chosen from:		4
NOTE: There is a prerequisite class (or equivalent) for each of the following 103 level courses.)		
CHIN 103	College Chinese III	
JAPN 103	College Japanese III	
KOR 103	College Korean III	

#### Electives (8)

Eight units chosen from:		8
ADMN 590D	Seminar in Administration	

ANTH 330	Cross-Cultural Child-Rearing Practices
ANTH 365	Asian American Cultures
ANTH 366	Filipino Cultural Expressions
ART 310	Asian Art
ASIA 392	Topics in Asian Studies
ASIA 575D	Internship in Asian Studies
ASIA 595D	Independent Study in Asian Studies
COMM 410	Asian Media and Culture
ENG 319	Studies in Literary Diversity
ENG 321	Studies in Language and Linguistics
HIST 426	Ancient and Early Imperial China
HIST 428	Medieval China
HIST 431	Modern China II, 1911-1949
HIST 432	Modern China III, 1949-Present
HIST 435	World War II in the Pacific
HIST 440	Modern Japanese History
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

## Certificate 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.

## Certificate Requirements

### Required course (4)

COMM 491	Ethical Aspects of Communication	4
----------	----------------------------------	---

### Electives (28)

Public speaking. Four units chosen from: 4

COMM 120 Oral Communication

COMM 180 Critical Thinking Through Argumentation

COMM 311 Business and Professional Communication

Intercultural communication

COMM 304 Intercultural Communication 4

or COMM 411 Gender and Communication

Interpersonal communication. Four units chosen from: 4

COMM 221 Small Group Communication

COMM 225 Fundamentals of Interpersonal Communication

COMM 331 Communication for Training Programs

COMM 403 Interpersonal Relations

COMM 441 Interviewing

Public relations:

COMM 341 Public Relations Theory and Principles 4

or PA 307 Public Relations in the Public Sector

Journalism. Eight units chosen from: 8

COMM 240 Writing for Media

COMM 342 Publication Design and Makeup

COMM 343 Nonfiction Reporting and Writing

Media. Two courses for a minimum of four units chosen from: 4

ART 290 Beginning Analog Photography

COMM 381 The Development of Motion Pictures

MUS 266 Introduction to Computer and Electronic Music

MUS 267 Introduction to Studio Recording Techniques

MUS 519 Audio Production

TA 253 Voice for the Stage

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

COMM 522	Mediation Theory and Practice	4
COMM 670	Seminar in Conflict and Conflict Resolution	4
MGMT 645	Negotiation and Bargaining	4
Twelve units chosen from:		12
COMM 672	Intercultural Peacemaking	
COMM 673	Advanced Mediation Skills	
MGMT 642	Communication and Interpersonal Processes	
MGMT 644	Industrial Relations	
or PA 557	Public Sector Labor Relations	
Total Units		24

## 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:

- The applicant must send to the Graduate Admissions Office (in addition to all other required materials):
  - Three letters of recommendation attesting to academic aptitude and accomplishments;
  - 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

- a curriculum vitae or resume and
- a one-page statement of intent outlining qualifications along with the other application material.

- The applicant must have completed the undergraduate work specified below:
  - The equivalent of 24 quarter units of communication course work;
  - Applicants for the Communication Studies Track must include among their 24 units of communication coursework the following: COMM 306 or equivalent and COMM 400 or equivalent;
  - Applicants for the Integrated Marketing and Communication Track must include among their 24 quarter units the following: COMM 306 and COMM 341;
- Complete ONE of the following research methods courses: COMM 400 or MKTG 416 (Note: COMM 400 may be included in the 24 units communication coursework, but MKTG 416 may not).
- 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.
- International students must have received a TOEFL score of 575 (computer-based score of 233 or internet-based score of 89) or higher.

Successful applicants are admitted to the program as conditionally classified graduate students. Advancement to classified status is conditional upon the completion of all prerequisites, as well as completion (after admission) of one of the following courses with a grade of "B-":

COMM 600	Introduction to Graduate Study	4
COMM 605	Introduction to Graduate Studies in Integrated Marketing Communication	4

## Advancement to Candidacy

- 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.
- 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:
  - approve the student's program of study;
  - compose and evaluate the student's comprehensive examination (if applicable); and
  - evaluate and approve the student's thesis or project (if applicable).
- 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.
- 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

- Students must complete an approved program of 47 to 50 units with an overall grade point average of 3.0.
- Students must receive a "B-" or higher in all required courses;

3. No more than 8 units at the 500 level or below may count towards the degree;
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.

COMM 600	Introduction to Graduate Study	4
COMM 601	Intercultural Communication Theories	4
COMM 602	Quantitative Research Methods in Communication Studies	4
COMM 603	Qualitative Research Methods in Communication	4
COMM 685	Thesis or Project Proposal/Comprehensive Examination Preparation	2

#### 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:

COMM 502	Communication Law and Policy	
COMM 506	Media Sex and Violence	
COMM 511	Feminist Contributions to Communication Theories	
COMM 520	Integrated Marketing Communication	
COMM 522	Mediation Theory and Practice	
COMM 542	Issue Management and Crisis Communication	
COMM 543	Environmental Communication	
COMM 560	Health Communication	
COMM 564	Advanced Topics in Human and Organizational Communication	
COMM 565	Advanced Topics in Media Studies	
COMM 567	Advanced Topics in Public Relations	
COMM 580	Culture and Ethnicity in Language	
COMM 581	Contemporary Theories of Rhetoric	
COMM 593A-D	Communication Approaches to Area Studies:	
COMM 609	Digital Culture	
COMM 610	Media and Intercultural Relations	
COMM 620	Communication in Multicultural Organizations	
COMM 630	Instructional Communication	
COMM 670	Seminar in Conflict and Conflict Resolution	
COMM 671	International Communication	
COMM 672	Intercultural Peacemaking	
COMM 673	Advanced Mediation Skills	
COMM 689	Practicum for Teaching Associates in Communication Studies	
COMM 690	Seminar in Organizational Communication	
COMM 691	Seminar in Public Relations	
COMM 692	Seminar in Interpersonal Communication	

COMM 693	Seminar in Media Studies
COMM 694	Seminar in Intercultural Communication
COMM 695B-E	Graduate Independent Study
COMM 696B-E	Practicum in Intercultural Living
COMM 697B-E	Internship in Communication

Students cannot apply any course previously applied to another degree or track. Students may, with the approval of the advisory committee and the graduate coordinator, substitute up to eight units of course work from a related discipline or disciplines.

Culminating Experience: 5

Students will choose one of the following culminating experiences to complete their program.

COMM 686	Graduate Project
COMM 699	Thesis
COMM 999	Comprehensive Examination (plus 5 additional elective units chosen from list above)

Total Units 47

### Comprehensive Examination.

Students may, with the approval of their advisory committee and graduate coordinator, fulfill the capstone requirement through a comprehensive examination. The examination tests the student's mastery of perspectives and competencies in the core curriculum as well as those associated with the individual student's program of study. The examination will be developed and evaluated by the student's advisory committee, administered during the student's final quarter in residence, and carry **no academic credit**.

### Thesis.

Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the capstone requirement through developing and executing an original research project designed to extend or apply our understanding of communication in important and unique ways. The prospectus must be approved by the advisory committee, and filed with the Graduate Coordinator. The student will make a public defense of the thesis during the last quarter of residence. The completed thesis must be approved by the advisory committee and the Dean of the Graduate School. Students choosing this option must register for five units of COMM 699.

### Project.

Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the capstone requirement through developing and executing a project with a significant written component. 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 (12)

COMM 306	Communication Theory	4
COMM 341	Public Relations Theory and Principles	4
COMM 400 or MKTG 416	Communication Research Methodology Marketing Research	4
Total Units		12

### Degree Requirements (50)

**Note:** Students must receive a grade of "B-" or higher in all required courses.

COMM 601	Intercultural Communication Theories	4
COMM 605	Introduction to Graduate Studies in Integrated Marketing Communication	4
COMM 675	Strategic Planning in Public Relations	4
Four units chosen from:		
COMM 602	Quantitative Research Methods in Communication Studies	4
or COMM 603	Qualitative Research Methods in Communication	
COMM 685	Thesis or Project Proposal/Comprehensive Examination Preparation	2
MKTG 605	Marketing Management	4
Electives:		23

At least eight but no more than sixteen elective units can be applied from courses taught outside of Communication Studies.

COMM 415	Advertising as Social Communication	
COMM 442	Public Relations Campaigns	
COMM 450	Media Audiences	
COMM 520	Integrated Marketing Communication	
COMM 522	Mediation Theory and Practice	
COMM 542	Issue Management and Crisis Communication	
COMM 543	Environmental Communication	
COMM 560	Health Communication	
COMM 567	Advanced Topics in Public Relations	
COMM 602	Quantitative Research Methods in Communication Studies	
COMM 603	Qualitative Research Methods in Communication	
COMM 609	Digital Culture	
COMM 610	Media and Intercultural Relations	
COMM 620	Communication in Multicultural Organizations	
COMM 673	Advanced Mediation Skills	
COMM 689	Practicum for Teaching Associates in Communication Studies	
COMM 690	Seminar in Organizational Communication	
COMM 691	Seminar in Public Relations	
COMM 692	Seminar in Interpersonal Communication	
COMM 693	Seminar in Media Studies	
COMM 694	Seminar in Intercultural Communication	
COMM 695B-E	Graduate Independent Study	

COMM 697B-E	Internship in Communication	
IST 609	Information Systems and Technology Management	
MKTG 446	Advertising Campaign	
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	
MKTG 590	Seminar in Marketing	
MKTG 610	Consumer and Organizational Buying Behavior	
MKTG 620	Advertising Management	
MKTG 640	Advanced Marketing Research	
MKTG 670	Global Marketing Strategies	
MKTG 690	Advanced Topics in Marketing	
MKTG 696	Marketing Strategy	
Students cannot apply any course previously applied to another degree or track.		
Culminating Experience:		5
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 (plus 5 additional elective units chosen from list above)	
Total Units		50

## 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.

## 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:		8
ANTH 362	Asian Cultures and Societies	
FIN 355	Business and Asian Culture	
HUM 328	Asian Cultural Traditions	

Four units of foreign language study chosen from: 4

NOTE: There is a prerequisite class (or equivalent) for each of the following 103 level courses.)

CHIN 103	College Chinese III	
JAPN 103	College Japanese III	
KOR 103	College Korean III	
International Experience		
Four units from any combination of:		4
ASIA 575D	Internship in Asian Studies	
ASIA 595D	Independent Study in Asian Studies	
HUM 578D	International Experience: Asian Studies	
Integrative International Seminar		
ASIA 392	Topics in Asian Studies	4
or HUM 425	Integrative Seminar in Asian Studies	
<b>Electives (12)</b>		
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)		12
<b>Total Units</b>		<b>32</b>

### Group A: Social Sciences

ANTH 330	Cross-Cultural Child-Rearing Practices	4
ANTH 333	Sex and Gender in Cross-Cultural Perspective	4
ANTH 362	Asian Cultures and Societies	4
ANTH 340	Anthropology of Health, Illness and Healing	4
ANTH 365	Asian American Cultures	4
ANTH 366	Filipino Cultural Expressions	2
HIST 426	Ancient and Early Imperial China	4
HIST 428	Medieval China	4
HIST 431	Modern China II, 1911-1949	4
HIST 432	Modern China III, 1949-Present	4
HIST 435	World War II in the Pacific	4
HIST 440	Modern Japanese History	4
SOC 425	Asian Americans: Origin and Ethnicity	4

When approved by the Asian Studies Director, credit will be given to other courses contingent on a significant amount of content focusing on Asia and Asian cultures. Such courses may include but are not limited to the following:

ANTH 332	Cross-Cultural Perspectives on Aging	
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. 16

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
COMM 481	History and Development of Documentary
ENG 302B	Analysis and Writing of Drama
or TA 302B	Analysis and Writing of Drama
ENG 463	Advanced Studies in Literary Topics
FREN 370	Francophone Film and Culture
SPAN 398A-E Survey of Classical and Contemporary Hispanic Films:	
TA 445	The Camera Eye
TA 465	Ethnic Films and Film Makers
New Media Production:	
ART 326	Interactive Multimedia Design
ART 330	Animation and Web Motion-Graphics
ART 387	Video Art
COMM 345	Advanced TV and Video Production
COMM 346	TV and Video Field Production
COMM 347	Fundamentals of Screenwriting
ENG 302B	Analysis and Writing of Drama

or TA 302B Analysis and Writing of Drama

TA 357	Acting for the Camera
--------	-----------------------

TA 385	Acting for Non-Majors
--------	-----------------------

Total Units 28-32

## 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: 12

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: 8

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: 4

ENG 316	Introduction to Creative Writing: Specialized Genres	
---------	--	--

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: 4

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

# 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 Composition
- English Literature
- Applied Linguistics and Teaching English as a
  - Second Language

### Master of Fine Arts (not offered in the 2015-16 Academic Year)

- 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;
4. Successfully completed ENG 517. Honors Project.

### 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  
 M.A. 2002, Ph.D. 2007, Pennsylvania State University

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  
 B.S. 1996, B.A. 1997, M.F.A. 2000, Ph.D. 2006, University of Utah

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. 236) with tracks in:
  - Literature
  - Creative Writing
  - Linguistics



## Graduate Degrees

### Master of Arts

English Composition (p. 239) with concentrations in:

- English Composition
- English Literature
- Applied Linguistics and Teaching English as a Second Language

### Master of Fine Arts (*Not offered in the 2015-16 Academic Year*)

Creative Writing (p. 242) with concentrations in:

- Fiction
- Poetry

### Minors

- English (p. 244)
- Film Studies (p. 220) (The Department of English participates in the interdisciplinary minor in Film Studies.)
- Script Writing (p. 221)

### Certificate Programs

- Teaching English as a Second Language (p. 237)
- Teaching Writing (p. 237)
- Writing: Creative Writing (p. 238)
- Writing: Professional Writing (p. 238)

### 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	
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. 482) teaching credential program, see contact the Credentials Office,

CE-102. For subject matter programs in English with concentrations in Communication or Theatre Arts, see listings under the Communication Studies or Theatre Arts Departments, respectively.

## 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 I. 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 105B -ENG 106B. 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 105B - ENG 106B.

### **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

Readings in nineteenth-century English literature. Formerly ENG 232.

**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 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 307. Theories Of Writing. 4 Units.**

Prerequisites: Upper-division writing requirement or consent of instructor  
Survey of major issues in composition and writing studies theory.

### **ENG 308. Studies in Writing. 4 Units.**

Prerequisites: Upper-division writing requirement or consent of instructor  
Study of a selected topic in writing studies. May be repeated once for credit as topics change.

### **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 323. Chicano Literature. 4 Units.**

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  
English prose and poetry from Bacon through Milton.

**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 poetry and prose of the Restoration and eighteenth century.

**ENG 412. Romantic Prose and Poetry. 4 Units.**

Prerequisites: ENG 301A or ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B; and 12 additional units of 200-, 300-, and/or 400-level courses in the English major; or consent of instructor  
Major English romantics such as Blake, Wordsworth, Keats, Coleridge, Shelley and Byron.

**ENG 415. Victorian Literature. 4 Units.**

Prerequisites: ENG 301A or ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor  
Major writers of Victorian England.

**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 ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 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 ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major  
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 ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 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 ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 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 ENG 301B; one course from ENG 302A, ENG 302B, ENG 303A, ENG 303B, ENG 304A, ENG 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 475. 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 501or 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 301B, ENG 306, ENG 311, ENG 329, ENG 385; and one course from ENG 302B, ENG 303B, ENG 304B  
English as a secondary school subject including language, literature and composition. Emphasis on theories and practices associated with reading, writing, and assessment.

**ENG 511. Creative Writing in the Secondary Classroom. 4 Units.**

Prerequisites: ENG 317 or ENG 318 with consent of instructor or graduate coordinator

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 subject matter changes.

**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 Childrens Literature. 4 Units.**

Prerequisites: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students

Becoming acquainted with the childrens 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: Publication Process. 4 Units.**

Prerequisites: ENG 507 or 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: 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 and methodology of teaching reading (including techniques such as skimming and scanning, identifying contextual clues and audience assumptions), and writing (including genre analysis and the teaching of grammar through writing) to non-native speakers of English in an academic context.

**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 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 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, online courses, writing centers, community college classrooms, and sites of pedagogical intervention, such as student texts. May be repeated for credit as topics change for up to a total of 16 units. .

**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 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 697B. Thesis and Comprehensive Examination Independent Study. 2 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 697C. Thesis and Comprehensive Examination Independent Study. 3 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 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 of 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. 224) requirements.

### Lower-division requirements (8)

ENG 210	English Literature I	4
or ENG 211	English Literature II	
ENG 212	English Literature III	4
or ENG 213	English Literature IV	

### Upper-division requirements (29)

ENG 301A	Analysis of Poetry	4
or ENG 301B	Analysis and Writing of Poetry	

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: 4

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: 4

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	4
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

## Literature Track (36 units)

Sixteen units from any of the following courses, at least 12 units of which must be from 400-level courses 16

Studies in a Literary Topic:	
ENG 324	Studies in Literary Topics

ENG 463	Advanced Studies in Literary Topics	
Studies in a Literary Genre:		
ENG 315	Studies in a Literary Genre	
ENG 333	Myth and Epic	
ENG 335	Studies in the Novel	
Studies in a Literary Period or Movement:		
ENG 401	English Literature of the Middle Ages	
ENG 403	English Literature of the Renaissance	
ENG 406	Seventeenth Century Literature	
ENG 409	English Literature of the Restoration and Eighteenth Century	
ENG 412	Romantic Prose and Poetry	
ENG 415	Victorian Literature	
ENG 440	Studies in a Literary Period or Movement	
ENG 442	Modern Poetry	
ENG 443	Contemporary Poetry	
ENG 447	Modern Fiction	
ENG 448	Contemporary Fiction	
Studies in a Major Author or Authors:		
ENG 441	Studies in a Major Author or Authors	
Studies in a Literary Theme:		
ENG 423	Studies in a Literary Theme	
ENG 515	Senior Seminar in Literature	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. 16		
Total Units		36

## Creative Writing Track (36 units)

ENG 317	Introduction to Creative Writing: Poetry	4
ENG 318	Introduction to Creative Writing: Fiction	4
ENG 417	Intermediate Creative Writing: Poetry	4
or ENG 418	Intermediate Creative Writing: Fiction	
ENG 507	Advanced Creative Writing: Poetry	4
or ENG 508	Advanced Creative Writing: Fiction	
Four units chosen from: 4		
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: Publication 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.	16
<b>Total Units</b>	<b>36</b>

## Linguistics Track (36 units)

ENG 312	Theories of Language Acquisition and Learning	4
ENG 321 or ENG 422	Studies in Language and Linguistics History of the English Language	4
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.	16	
<b>Total Units</b>		<b>36</b>

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

## 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:		8
ENG 523	English Grammar II	
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)	
<b>Total Units</b>		<b>30</b>

## 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)

ENG 240	Writing in the Public Sphere	4
ENG 329	Issues in Literacy and Writing Studies	4
ENG 612	Contemporary Composition and Discourse Theory	4
ENG 660	Issues in Teaching College Composition	4
ENG 662	Internship in Composition	2
Twelve units chosen from:		12
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	
Total Units		30

## 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

ENG 317	Introduction to Creative Writing: Poetry	4
ENG 318	Introduction to Creative Writing: Fiction	4
ENG 417	Intermediate Creative Writing: Poetry	4
or ENG 418	Intermediate Creative Writing: Fiction	
Four units chosen from:		4
ENG 507	Advanced Creative Writing: Poetry	
ENG 508	Advanced Creative Writing: Fiction	
ENG 513	Advanced Creative Writing in Specialized Genres	
Four units chosen from:		4
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 from any upper-division English courses which may include ENG 621.		8
Total Units		28

## Certificate in Writing: Professional Writing

### Requirements (30-31 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 (8)

ENG 240	Writing in the Public Sphere	4
COMM 240	Writing for Media	4

### Upper-division requirements (22-23)

ENG 307	Theories Of Writing	4
ENG 308	Studies in Writing	4
ENG 399B	Community Service Project	2

or ENG 575B	Internship in English	
Twelve to thirteen units chosen from:		12-13
ART 313	Printing Production	
ART 322	Web Design	
ART 342	Graphic Design I	
ART 530	Art Writing	
COMM 311	Business and Professional Communication	
COMM 342	Publication Design and Makeup	
COMM 344	Public Relations Communication	
COMM 442	Public Relations Campaigns	
ENG 304B	Analysis and Writing of Nonfiction Prose	
ENG 308	Studies in Writing	
ENG 501	Media Performance Practicum	
or TA 501	Media Performance Practicum	
ENG 631	Approaches to Professional Writing	
PHIL 387	Philosophy of Language	
TA 505	Criticism of Theatre in Performance	
Total Units		30-31

Application and other materials must be received by:

To begin the quarter of	Application and other materials must be received by	For decision contact the Graduate coordinator after
Fall	July 1	Aug. 1
Winter	Nov. 1	Dec. 1
Spring	Jan. 23	Mar. 1

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:

ENG 311	The English Language	4
One of the following:		
ENG 312	Theories of Language Acquisition and Learning	4
ENG 420	English Grammar I	

## 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.



ENG 422	History of the English Language	
One of the following:		4
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	
ENG 385	Literary Theory and Criticism	4
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):
- |         |   |   |
|---------|---|---|
| ENG 311 | The English Language                          | 4 |
| ENG 312 | Theories of Language Acquisition and Learning | 4 |
| ENG 420 | English Grammar I                             | 4 |

## Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 16 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the Graduate Coordinator.

## Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work in the formal program, with no fewer than 35 completed at this university and with at least 34 units gained from 600-level courses in English. Students must gain approval in advance from the Graduate Coordinator to count 300-, 400- or 500-level courses as electives;
2. Advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work and research fulfilling the requirements of the student's concentration and grades of "C" (2.0) or better in all courses in the program;
4. For students in the English Composition Concentration, 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.

ENG 600	Critical Approaches to Literature	4
ENG 609	Perspectives on Research	4
ENG 612	Contemporary Composition and Discourse Theory	4
ENG 613	Seminar in Rhetoric and Composition	4

Four units chosen from:

ENG 615	Discourse Analysis: Theories and Applications	
ENG 616	Contrastive Rhetoric	
ENG 617	Linguistics Pragmatics	
ENG 618	Stylistics	

ENG 633	The Western Rhetorical Tradition I	4
or ENG 634	The Western Rhetorical Tradition II	

Twelve units chosen from:

ENG 621	Approaches to Imaginative Writing	
ENG 625	TESL Methods and Materials for Speaking and Listening	
ENG 626	TESL Methods and Materials for Reading and Writing	
ENG 630	Writing Center Studies	
ENG 631	Approaches to Professional Writing	
ENG 657	Sites of Praxis	
ENG 658	Computers and Writing: Literacy and Technology	
ENG 660	Issues in Teaching College Composition	

ENG 662	Internship in Composition	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:

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:		4
ENG 615	Discourse Analysis: Theories and Applications	
ENG 616	Contrastive Rhetoric	
ENG 617	Linguistics Pragmatics	
ENG 618	Stylistics	
ENG 621	Approaches to Imaginative Writing	4
Twelve units chosen from:		12
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 633	The Western Rhetorical Tradition I	4
or ENG 634	The Western Rhetorical Tradition II	
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.		4-8
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:		4
ENG 612	Contemporary Composition and Discourse Theory	
ENG 633	The Western Rhetorical Tradition I	
ENG 634	The Western Rhetorical Tradition II	
ENG 615	Discourse Analysis: Theories and Applications	4
ENG 616	Contrastive Rhetoric	4
or ENG 617	Linguistics Pragmatics	
ENG 619	Second Language Acquisition	4
ENG 626	TESL Methods and Materials for Reading and Writing	4
Four units chosen from:		4
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 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.		4-8
Culminating Experience. Choose one of the following two options:		0-4
Thesis Option:		
ENG 699A	Thesis	
ENG 699B	Thesis and Research	
Comprehensive Examination :		
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 and 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 an 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

## Not offered in the 2015-16 Academic Year

### 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	4
ENG 385	Literary Theory and Criticism	4
One of the following:		4
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	4
or ENG 318	Introduction to Creative Writing: Fiction	

A student who has not met one or more of the course prerequisites above or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions before beginning the M.F.A. program with their cohort in the Fall quarter. If conditionally classified students do not meet the conditions, they cannot begin taking the M.F.A. sequence of courses, which start each Fall quarter, and they must reapply to the program;

- The Graduate Record Examination is not required;
- 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;
- Applicants who do not possess a bachelor's degree from a post-secondary institution in a country where English is the principal language of instruction must receive a minimum score of 575 (computer-based score of 233) on the Test of English as a Foreign Language (TOEFL).

## Advancement to Candidacy

To be advanced to candidacy, the student must have:

- 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.)
- Completed at least half of the master's project, verified by the M.F.A. coordinator;
- Filed a program plan approved by the M.F.A. coordinator.

## Requirements for Graduation

- 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;
- Students must gain approval in advance from the M.F.A. Coordinator to count 400- or 500-level courses as electives;
- Students must be advanced to candidacy;
- Students must have a grade point of average of at least 3.0 ("B") in the program's coursework;

- Students meet the graduation writing requirement with the successful completion of the master's project;
- 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;
- 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)	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)	8
Students must complete either the following Teaching Focus or the Literature Focus for a total of twenty-four units.		24
<hr/>		
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:		12
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
<hr/>		
Total Units		24

### Literature Focus

ENG 600	Critical Approaches to Literature	4
Twelve units chosen from:		12

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 (may be repeated as topics change)	4
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)	24
ENG 621	Approaches to Imaginative Writing	4
ENG 622	Creative Writers on Writing	4
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)	8
Students must complete either the following Teaching Focus or the Literature Focus for a total of twenty-four units		24
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:		12
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:		12
ENG 515	Senior Seminar in Literature	
ENG 543A	Literary Publication: Solicitation of Submissions	
ENG 543B	Literary Publication: Production	

ENG 543C	Literary Publication: Publication 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:		4
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:		8
ENG 210	English Literature I	
ENG 211	English Literature II	
ENG 212	English Literature III	
ENG 213	English Literature IV	
ENG 325	American Literature I	
ENG 326	American Literature II	
Four units chosen from:		4
ENG 475	Shakespeare I	
ENG 476	Shakespeare II	
Four units chosen from:		4
ENG 401	English Literature of the Middle Ages	
ENG 403	English Literature of the Renaissance	
ENG 406	Seventeenth Century Literature	
ENG 409	English Literature of the Restoration and Eighteenth Century	
ENG 412	Romantic Prose and Poetry	
ENG 415	Victorian Literature	
ENG 442	Modern Poetry	
ENG 443	Contemporary Poetry	
ENG 447	Modern Fiction	
ENG 448	Contemporary Fiction	
Four units chosen from:		4
ENG 314	American Indian Literature	
ENG 319	Studies in Literary Diversity	
ENG 323	Chicano Literature	

ENG 336	Women Writers	
ENG 339	African American Literature	
Four additional units chosen from any upper-division English course except:		4
ENG 300	English Workshop	
ENG 306	Expository Writing for English	
ENG 399A	Community Service Project	
ENG 399B	Community Service Project	
Total Units		32

## 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
- **Bachelor of Music (Admission is contingent on final approval of the program by the CSU Chancellor's Office)**

Performance

- with concentrations in:
  - Voice
  - Instrumental
  - Piano
  - Guitar

#### Teaching Preparation Program

Music

#### Minors

- Jazz Studies
- Music
- Recording Arts
- The CSUSB Department of Music provides students with a rigorous musical education as a foundation for a lifelong understanding and love of music, as well as preparation for a wide variety of careers in music. We accomplish this through an emphasis on undergraduate education, small class size, and close interactions between faculty and students, all with a continual focus on artistic expression. Consistent with the university's mission, the department is also committed to serving the campus and Inland Empire communities through on-going performance and educational initiatives.
- CSUSB's Bachelor of Arts in Music provides a broad study of music balanced with significant general studies in the humanities, natural sciences, and social sciences. The core of required music courses provides a foundation in music theory, history, and performance, while General Education courses balance musical study with significant exposure to many other disciplines. Additionally, the degree's free electives allow students to pursue study in areas of particular interest, including, with the permission of a music advisor, the substitution of

courses from disciplines outside of music. Students are encouraged to consider completion of a minor as part of their elective study.

CSUSB's Bachelor of Music in Performance program prepares students for careers as professional performers of classical art music. Students must meet rigorous academic and artistic standards to enter and continue in the program, and after graduation the majority of them will pursue advanced music degrees or similar post-baccalaureate training. The program puts particular focus on real world performing as a supplementary learning experience, with emphasis on auditions for professional engagements and competitions, service learning, and formation of ad hoc ensembles. The BM in Performance program does have entrance requirements. For specific requirements, see the degree information below or the department's handbook, available online at <http://music.csusb.edu/>

#### Teaching Credential Program

Students wishing to be recommended for the single subject teaching credential in music must complete the BA in Music degree, the Music Teacher Preparation Program, and certain other 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;

#### 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  
D.A. 2002, University of Northern Colorado

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 in Music (p. 260)

### Bachelor of Music in Performance (p. 261) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)

- with concentrations in:
  - Vocal
  - Instrumental
  - Piano
  - Guitar

## Minors

- Jazz Studies (p. 264)
- Music (p. 264)
- Recording Arts (p. 264)

## Teacher Preparation Program (33 units)

In order to earn a waiver for the California Subject Examination for Teachers (CSET) for music when applying for post-baccalaureate credential programs, students must complete the BA for Music degree and also the teaching preparation coursework listed below.

MUS 201A	Class Strings I	1
MUS 202A	Class Woodwinds I	1
MUS 203A	Class Brass I	1
MUS 204A	Class Percussion I	1
MUS 206	Class Voice	1
Four units chosen from:		4
MUS 201B	Class Strings II	
MUS 202B	Class Woodwinds II	
MUS 203B	Class Brass II	
MUS 204B	Class Percussion II	
MUS 205A	Class Guitar I	
MUS 205B	Class Guitar II	
MUS 211A	Diction for Singers I	

MUS 211B	Diction for Singers II	
MUS 209	Instrumental Music Literature	2
MUS 212	Choral Music Literature	2
MUS 214	Introduction to Music Education	2
MUS 301	Choral Conducting	1
MUS 303	Instrumental Conducting	1
MUS 382A-L	Chamber Music (for a total of 2 units)	2
MUS 406	Orchestration	2
MUS 408	Arranging	2
MUS 410	Music in the Elementary Schools	4
MUS 411	Teaching Music in Secondary Schools	4
MUS 535	Computer Studies for Music Teachers	2
Total Units		33

## 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, solfege, 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, solfege, 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, solfege, 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 sight-singing, solfege, 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 200. Large Music Ensemble. 1 Unit.**

Lower-division course for participation in large music ensembles such as band, choir, orchestra, or jazz band. May repeat for credit for a total of 6 units.

**MUS 201A. Class Strings I. 1 Unit.**

Beginning study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required.

**MUS 201B. Class Strings II. 1 Unit.**

Prerequisites: MUS 201A

Continued study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required.

**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 214. Introduction to Music Education. 2 Units.**

Orientation to the field of music education. Course will cover history, philosophy, current practices and trends, music curricula, professional characteristics, and interpersonal skills required of music educators.

**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 239. Applied Repertoire I. 1 Unit.**

Prerequisites: placement audition and permission of department  
Corequisites: one of the following - MUS 240, MUS 241, MUS 242, MUS 243, MUS 244, or MUS 245  
One half-hour per week of supplementary repertoire study for sophomore-level applied students in the Bachelor of Music in Performance degree.  
May be repeated for a maximum of four units.

**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: 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 mediants, altered 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 harmony, melody, form, and lyrics used in commercial song and jingle composition. Students will compose original songs and jingles as part of the course requirements.

**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 267. Introduction to Studio Recording Techniques. 4 Units.**

Introductory course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing.

**MUS 270. Introduction to Music Technology. 2 Units.**

Prerequisites: MUS 122, MUS 123, and consent of department  
A survey for music majors of common software and hardware resources used in music. Study includes musical notation software, recording technology, digital audio editing and manipulations, and MIDI.

**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 311. Performance Literature. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

A survey of musical literature most applicable to a student's applied study.

**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 339. Applied Repertoire II. 1 Unit.**

Prerequisites: placement audition and permission of department

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, or MUS 345

One half-hour per week of supplementary repertoire study for junior-level applied students in the Bachelor of Music in Performance degree. May be repeated for a maximum of four units.

**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. Formerly MUS 447. 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 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 382I. Chamber Music: World Music. 1 Unit.**

Prerequisites: consent of instructor  
Performance of small ensemble music as determined by available instrumentation.

**MUS 382J. Chamber Music: Early Music. 1 Unit.**

Prerequisites: consent of instructor  
Performance of small ensemble music as determined by available instrumentation.

**MUS 382K. Chamber Music: Collaborative Piano. 1 Unit.**

Prerequisites: consent of instructor  
Performance of small ensemble music as determined by available instrumentation.

**MUS 382L. Chamber Music: Strings. 1 Unit.**

Prerequisites: consent of instructor  
Performance of small ensemble music as determined by available instrumentation.

**MUS 385. Concert Choir. 1 Unit.**

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. Topics in Music History. 2 Units.**

Prerequisites: MUS 306 or consent of instructor

Selected topics in the field of Music History. 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 214 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 214 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 439. Applied Repertoire III. 1 Unit.**

Prerequisites: placement audition and permission of department  
Corequisites: one of the following - MUS 440, MUS 441, MUS 442, MUS 443, MUS 444, or MUS 445  
One half-hour per week of supplementary repertoire study for senior-level applied students in the Bachelor of Music in Performance degree. May be repeated for a maximum of four units.

### **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 450A. Applied Music Pedagogy: Voice. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450B. Applied Music Pedagogy: Piano. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450C. Applied Music Pedagogy: Orchestral Strings. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450D. Applied Music Pedagogy: Guitar. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450E. Applied Music Pedagogy: Woodwinds. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450F. Applied Music Pedagogy: Brass. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**MUS 450G. Applied Music Pedagogy: Percussion. 2 Units.**

Corequisites: one of the following - MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

An examination of physiology, primary sources, and methodical literature used in applied music teaching. Assigned work will include a peer teaching requirement or equivalent field work with secondary or elementary age students.

**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.**

This course is intended for music teachers who wish to become familiar not only with hardware, music software, and basic computer music operations, but also with the specific uses of computer technology in the music classroom.

**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 (96-97 units)****Total units required for graduation: 180**

Any student accepted for admission to CSUSB can declare music as major and pursue the BA in Music degree. Examinations and auditions are available for advanced placement only, not as an entrance requirement.

Applied instruction is available only to declared music majors. Students interested in applied composition (MUS 246) will be required to complete one year of applied vocal or instrumental music instruction (MUS 140-MUS 145) as a prerequisite. Students in applied music technology (MUS 348) will be required to complete two years of applied vocal or instrumental music instruction. (MUS 140-MUS 145 and MUS 240-MUS 245) as a prerequisite.

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.

All students enrolled as full-time music majors in the BA in Music are required to participate each quarter until graduation in a major performing ensemble most appropriate to a student's applied emphasis.

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.

## Requirements for the B.A. in Music

**Music Theory (24)**

MUS 120	Theory I	3
MUS 121	Musicianship I	1
MUS 122	Theory II	3
MUS 123	Musicianship II	1
MUS 124	Theory III	3
MUS 125	Musicianship III	1
MUS 250	Theory IV	3
MUS 251	Musicianship IV	1
MUS 252	Theory V	3
MUS 253	Musicianship V	1
MUS 254	Theory VI	3
MUS 255	Musicianship VI	1

**Music History (20)**

MUS 304	History of Music I	4
MUS 305	History of Music II	4
MUS 306	History of Music III	4
MUS 307	Music of 20th and 21st Centuries	4
MUS 350	Music of World Cultures	4

**Additional Requirements (52-53)**

Piano proficiency must be demonstrated by completing one of the following: 1

MUS 222	Class Piano III (with a grade of "B" or better) Or successful completion of credit by examination administered by the department.	
MUS 270	Introduction to Music Technology	2
Nine units chosen from the student's area of study:		9
MUS 140-MUS 145 (100-level Applied Study)		
MUS 240-MUS 246 (200-level Applied Study)		
MUS 340-MUS 349 (300-level Applied Study)		
Twelve units chosen from:		12
MUS 200	Large Music Ensemble	
MUS 380	Chamber Orchestra	
MUS 381	Symphonic Band	
MUS 385	Concert Choir	
MUS 386	Chamber Singers	

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 0

Six quarters of MUS 998 - Concert Attendance (0). At least eight Music Department concerts, recitals and related programs must be attended per quarter.

MUS 475	Internship in Commercial Music	1-2
or MUS 598	Senior Project	
MUS 990	Music Comprehensive Assessment	0

Electives: 27 units in Music of the student's choice, of which 12 units must be upper-division. Units from other disciplines may be substituted with prior approval of student's academic advisor.

27

Total Units

96-97

## Bachelor of Music in Performance

### Admission is contingent on final approval of the program by the CSU Chancellor's Office

#### Requirements (110 units)

#### Total units required for graduation: 192

The Bachelor of Music in Performance program prepares students for careers as professional performers of classical art music. Students must meet rigorous academic and artistic standards to enter and continue in the program, and after graduation the majority of them pursue advanced music degrees or similar post-baccalaureate training. The program puts particular focus on real world performing as a supplementary learning experience, with emphasis on auditions for professional engagements and competitions, service learning, and formation of ad hoc ensembles.

Entrance to Bachelor of Music in Performance requires a demonstration of significant academic, performance, and intellectual achievement. Students may apply at any time for entrance to the Bachelor of Music in Performance, but freshmen students usually apply to enter the program after the completion of three quarters of CSUSB coursework, and transfers usually apply immediately before their first quarter of enrollment. Students whose initial application does not result in acceptance into the program may apply a maximum of one additional time.

Applied instruction is available only to declared music majors. Students interested in applied composition (MUS 246) will be required to complete one year of applied vocal or instrumental music instruction (MUS 140-MUS 145) as a prerequisite. Students in applied music technology (MUS 348) will be required to complete two years of applied vocal or instrumental music instruction. (MUS 140-MUS 145 and MUS 240-MUS 245) as a prerequisite.

Only Bachelor of Music students may enroll in applied repertoire courses (MUS 239, 339, and 439), and they may enroll for a maximum of four quarters at each level. After four quarters at one level, a student unable to satisfy completion requirements cannot continue in the BM in Performance degree and will be counseled to instead pursue the BA in Music or a degree in some other discipline.

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.

All students enrolled as full-time music majors in the BM in Performance are required to participate each quarter until graduation in a major performing ensemble most appropriate to a student's applied emphasis

As prerequisites for acceptance into the Bachelor of Music in Performance, students must complete the following as a Pre--Music Performance major.

1. Complete the following courses with a minimum grade of B- in each:

MUS 120	Theory I	3
MUS 121	Musicianship I	1
MUS 122	Theory II	3
MUS 123	Musicianship II	1

2. Complete 3 units in one of:

MUS 140	Lower-Division Voice I	1
MUS 141A	Lower-Division Keyboard Instrument I: Piano	1
MUS 141B	Lower-Division Keyboard Instrument I: Organ	1
MUS 141C	Lower-Division Keyboard Instrument I: Harpsichord	1
MUS 142A	Lower-Division String Instrument I: Violin	1
MUS 142B	Lower-Division String Instrument I: Viola	1
MUS 142C	Lower-Division String Instrument I: Cello	1
MUS 142D	Lower-Division String Instrument I: Bass	1
MUS 142E	Lower-Division String Instrument I: Guitar	1
MUS 142F	Lower-Division String Instrument I: Harp	1
MUS 143A	Lower-Division Wind Instrument I: Flute	1
MUS 143B	Lower-Division Wind Instrument I: Clarinet	1
MUS 143C	Lower-Division Wind Instrument I: Oboe	1
MUS 143D	Lower-Division Wind Instrument I: Bassoon	1
MUS 143E	Lower-Division Wind Instrument I: Saxophone	1
MUS 144A	Lower-Division Brass Instrument I: Trumpet	1
MUS 144B	Lower-Division Brass Instrument I: Horn	1
MUS 144C	Lower-Division Brass Instrument I: Trombone	1
MUS 144D	Lower-Division Brass Instrument I: Tuba	1
MUS 145	Lower-Division Percussion Instrument I	1

3. Pass a diagnostic test of music theory knowledge;

4. Pass a performance audition. Students must demonstrate a high potential for success as a professional musician based on a performance audition for a committee of music faculty. Students must perform two contrasting works of significant repertoire for their audition; vocalists must include works in two different languages;

5. Submit a written essay as part of a formal application process. More information about the essay's expected content is available in the Department of Music's handbook (<http://music.csusb.edu/Students/departmentHandbook.html>).

Upon acceptance into the new program, the student's major will be changed from Pre-Music Performance to Bachelor of Music in Performance. The requirements for the Pre-Music Performance major are also requirements for the Bachelor of Arts in Music. Students who are not accepted to the Bachelor of Music in Performance degree, or who decide not to pursue it, can seamlessly change their degree objective to the Bachelor of Arts in Music. More information about the application process is available in the Department of Music's handbook (<http://music.csusb.edu/Students/departmentHandbook.html>), the department office in Performing Arts room 111, and by phone at (909) 537-5859. Transfer students who have already completed the Pre-Music Performance requirements listed below should apply to the Bachelor of Music in Performance program immediately after acceptance to CSUSB.

Continuation in and graduation from the program require the following:

1. A minimum GPA of 2.75 in all CSUSB coursework, and a minimum GPA of 3.0 in all CSUSB music coursework. Students whose academic achievement falls below either GPA minimum for two or more consecutive quarters in a row cannot continue in the program;

2. Normally three quarters are required in each of MUS 239, MUS 339, and MUS 439, and a maximum of four quarters of enrollment are allowed in each of the three courses. Students not able in four quarters to complete requirements for one of those three courses cannot continue in the BM program.

Additionally, before enrolling in MUS 499 Junior Recital, students must satisfy the piano proficiency requirement (see below), pass all "core" music theory and musicianship courses (MUS 120 through 125 and MUS 250 through 255), and complete all core history courses (MUS 304 through 307 and MUS 350). Approval to give a performance for MUS 499 Junior Recital or MUS 599 Senior Recital requires completion of a recital hearing at least four weeks before the planned performance date. Recital hearings are played for a faculty committee that includes a student's studio teacher and at least two other faculty members. For MUS 599, students must submit written program notes at their hearings that meet writing, formatting, and content standards published in the Department of Music handbook (<http://music.csusb.edu/Students/departmentHandbook.html>). If program notes do not meet the department's minimum standards, the hearing committee can deny the student permission for the recital performance. The department's handbook is published online at the Music department website (<http://music.csusb.edu>).

## Requirements for the B.M. in Music Performance

### Core Requirements (65)

Music Theory		
MUS 120	Theory I	3
MUS 121	Musicianship I	1
MUS 122	Theory II	3
MUS 123	Musicianship II	1
MUS 124	Theory III	3
MUS 125	Musicianship III	1
MUS 250	Theory IV	3
MUS 251	Musicianship IV	1
MUS 252	Theory V	3
MUS 253	Musicianship V	1
MUS 254	Theory VI	3
MUS 255	Musicianship VI	1
Music History		
MUS 304	History of Music I	4
MUS 305	History of Music II	4
MUS 306	History of Music III	4
MUS 307	Music of 20th and 21st Centuries	4
MUS 350	Music of World Cultures	4
Basic Conducting		
MUS 210	Conducting	2
Additional Requirements		

Piano Proficiency must be demonstrated by completing one of the following: 1

MUS 222	Class Piano III (with a grade of "B: or better)	
Successful completion of credit by examination administered by the department		

Twelve units chosen from: 12

MUS 200	Large Music Ensemble
MUS 380	Chamber Orchestra
MUS 381	Symphonic Band
MUS 385	Concert Choir
MUS 386	Chamber Singers

Participation in one of the major performance organizations most appropriate to the student's major instrument is required each quarter in residence with a maximum of twelve units being applied to the Major

MUS 998	Concert Attendance (six quarters)	0
MUS 499	Junior Recital	1
MUS 599	Senior Recital	1
MUS 270	Introduction to Music Technology	2
MUS 311	Performance Literature	2

### Vocal Concentration (45)

Applied Study 21

MUS 140	Lower-Division Voice I (for a total of 3 units)
MUS 240	Lower-Division Voice II (for a total of 3 units)
MUS 340	Upper-Division Voice I (for a total of 3 units)
MUS 440	Upper-Division Voice II (for a total of 3 units)
MUS 239	Applied Repertoire I (for a total of 3 units)
MUS 339	Applied Repertoire II (for a total of 3 units)
MUS 439	Applied Repertoire III (for a total of 3 units)

MUS 450A Applied Music Pedagogy: Voice 2

Small Ensembles 2

MUS 387	Opera Theatre I
MUS 397	Opera Theatre II

Diction 4

MUS 211A	Diction for Singers I
MUS 211B	Diction for Singers II

Language 8

Eight units from German, French, and Italian language, subject to advisor's approval, from General Education category C3 language choices

History and theory electives 4

Four units selected from the following:

MUS 230	Introduction to Jazz Improvisation
MUS 309	Jazz History in America and African-American Culture
MUS 330	Advanced Jazz Improvisation
MUS 382I	Chamber Music: World Music
MUS 382J	Chamber Music: Early Music
MUS 400	Studies in Composers
MUS 402	Topics in Music History
MUS 426	Studies in Music History

MUS 542	Studies in Musical Organization	
Upper-division music electives		4

## Instrumental Concentration (45)

### Applied Study

Three units chosen from:		3
--------------------------	--	---

MUS 142A-F	Lower-Divison String Instrument I
------------	-----------------------------------

MUS 143A-E	Lower-Divison Wind Instrument I
------------	---------------------------------

MUS 144A-D	Lower-Divison Brass Instrument I
------------	----------------------------------

MUS 145	Lower-Divison Percussion Instrument I
---------	---------------------------------------

Three units chosen from:		3
--------------------------	--	---

MUS 242A-F	Lower-Divison String Instrument II
------------	------------------------------------

MUS 243A-E	Lower-Divison Wind Instrument II
------------	----------------------------------

MUS 244A-D	Lower-Divison Brass Instrument II
------------	-----------------------------------

MUS 245	Lower-Divison Percussion Instrument II
---------	--

Three units chosen from:		3
--------------------------	--	---

MUS 342A-F	Upper-Divison String Instrument I
------------	-----------------------------------

MUS 343A-E	Upper-Divison Wind Instrument I
------------	---------------------------------

MUS 344A-D	Upper-Divison Brass Instrument I
------------	----------------------------------

MUS 345	Upper-Divison Percussion Instrument I
---------	---------------------------------------

Three units chosen from:		3
--------------------------	--	---

MUS 442A-F	Upper-Divison String Instrument II
------------	------------------------------------

MUS 443A-E	Upper-Divison Wind Instrument II
------------	----------------------------------

MUS 444A-D	Upper-Divison Brass Instrument II
------------	-----------------------------------

MUS 445	Upper-Divison Percussion Instrument II
---------	--

MUS 239	Applied Repertoire I (for a total of 3 units)	3
---------	---	---

MUS 339	Applied Repertoire II (for a total of 3 units)	3
---------	--	---

MUS 439	Applied Repertoire III (for a total of 3 units)	3
---------	---	---

Two units chosen from:		2
------------------------	--	---

MUS 450C	Applied Music Pedagogy: Orchestral Strings
----------	--

MUS 450E	Applied Music Pedagogy: Woodwinds
----------	-----------------------------------

MUS 450F	Applied Music Pedagogy: Brass
----------	-------------------------------

MUS 450G	Applied Music Pedagogy: Percussion
----------	------------------------------------

Six units selected from:		6
--------------------------	--	---

MUS 382A	Chamber Music: Woodwinds
----------	--------------------------

MUS 382B	Chamber Music: Percussion
----------	---------------------------

MUS 382C	Chamber Music: Flute Choir
----------	----------------------------

MUS 382D	Chamber Music: Brass Quintet
----------	------------------------------

MUS 382E	Chamber Music: Saxophone
----------	--------------------------

MUS 382G	Chamber Music: Clarinet Ensemble
----------	----------------------------------

MUS 382L	Chamber Music: Strings
----------	------------------------

MUS 303	Instrumental Conducting	1
---------	-------------------------	---

### History and theory electives

Six units selected from the following:		6
--	--	---

MUS 230	Introduction to Jazz Improvisation
---------	------------------------------------

MUS 309	Jazz Hisory in America and African-American Culture
---------	---

MUS 330	Advanced Jazz Improvisation
---------	-----------------------------

MUS 382I	Chamber Music: World Music
----------	----------------------------

MUS 382J	Chamber Music: Early Music
----------	----------------------------

MUS 400	Studies in Composers
---------	----------------------

MUS 402	Topics in Music History
---------	-------------------------

MUS 426	Studies in Music History
---------	--------------------------

MUS 542	Studies in Musical Organization
---------	---------------------------------

Upper-division music electives		9
--------------------------------	--	---

## Piano Concentration (45)

Applied Study		21
---------------	--	----

MUS 141A	Lower-Division Keyboard Instrument I: Piano (for a total of 3 units)
----------	--

MUS 241A	Lower-Division Keyboard Instrument II: Piano (for a total of 3 units)
----------	---

MUS 341A	Upper-Division Keyboard Instrument I: Piano (for a total of 3 units)
----------	--

MUS 441A	Upper-Division Keyboard Instrument II: Piano (for a total of 3 units)
----------	---

MUS 239	Applied Repertoire I (for a total of 3 units)
---------	---

MUS 339	Applied Repertoire II (for a total of 3 units)
---------	--

MUS 439	Applied Repertoire III (for a total of 3 units)
---------	---

MUS 450B	Applied Music Pedagogy: Piano	2
----------	-------------------------------	---

### Small Ensembles

Four units chosen from:		4
-------------------------	--	---

MUS 382A-L	Chamber Music
------------	---------------

MUS 387	Opera Theatre I
---------	-----------------

MUS 397	Opera Theatre II
---------	------------------

MUS 392	Vocal Jazz
---------	------------

MUS 382K	Chamber Music: Collaborative Piano (for a total of 4 units)	4
----------	---	---

History and theory electives		6
------------------------------	--	---

### Six units selected from the following:

MUS 230	Introduction to Jazz Improvisation
---------	------------------------------------

MUS 309	Jazz Hisory in America and African-American Culture
---------	---

MUS 330	Advanced Jazz Improvisation
---------	-----------------------------

MUS 382I	Chamber Music: World Music
----------	----------------------------

MUS 382J	Chamber Music: Early Music
----------	----------------------------

MUS 400	Studies in Composers
---------	----------------------

MUS 402	Topics in Music History
---------	-------------------------

MUS 426	Studies in Music History
---------	--------------------------

MUS 542	Studies in Musical Organization
---------	---------------------------------

Upper-division music electives		8
--------------------------------	--	---

## Guitar Concentration (45)

Applied Study		21
---------------	--	----

MUS 142E	Lower-Division String Instrument I: Guitar (for a total of 3 units)
----------	---

MUS 242E	Lower-Division String Instrument II: Guitar (for a total of 3 units)
----------	--

MUS 342E	Upper-Division String Instrument I: Guitar (for a total of 3 units)
----------	---

MUS 442E	Upper-Division String Instrument II: Guitar (for a total of 3 units)
----------	--

MUS 239	Applied Repertoire I (for a total of 3 units)
---------	---

MUS 339	Applied Repertoire II (for a total of 3 units)
---------	--

MUS 439	Applied Repertoire III (for a total of 3 units)
---------	---

MUS 450D	Applied Music Pedagogy: Guitar	2
----------	--------------------------------	---



Small ensembles	4
Four units chosen from:	
MUS 382A-L Chamber Music	
MUS 387 Opera Theatre I	
MUS 397 Opera Theatre II	
MUS 392 Vocal Jazz	
MUS 382F Chamber Music: Guitar Ensemble (for a total of 4 units)	4
History and theory electives	6
Six units selected from the following:	
MUS 230 Introduction to Jazz Improvisation	
MUS 309 Jazz History in America and African-American Culture	
MUS 330 Advanced Jazz Improvisation	
MUS 382I Chamber Music: World Music	
MUS 382J Chamber Music: Early Music	
MUS 400 Studies in Composers	
MUS 402 Topics in Music History	
MUS 426 Studies in Music History	
MUS 542 Studies in Musical Organization	
Upper-division music electives	8

## Minor in Jazz Studies

### Requirements (28 units)

### Requirements for a minor in Jazz Studies

MUS 100 Fundamentals of Music Theory & MUS 101 and Basic Musicianship	4
MUS 120 Theory I & MUS 121 and Musicianship I	4
MUS 122 Theory II & MUS 123 and Musicianship II	4
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.	
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:	6
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 and Musicianship I	4
MUS 122 Theory II & MUS 123 and Musicianship II	4
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.	
MUS 180 Studies in Music	4
Two units chosen from:	2
MUS 205A Class Guitar I	
MUS 205B Class Guitar II	
MUS 206 Class Voice	
MUS 211A Diction for Singers I	
MUS 211B Diction for Singers II	
MUS 220 Class Piano I	
MUS 221 Class Piano II	
Four units chosen from:	4
MUS 304 History of Music I	
MUS 305 History of Music II	
MUS 306 History of Music III	
MUS 350 Music of World Cultures	
MUS 351 Latin American Music	
Two units chosen from:	2
MUS 200 Large Music Ensemble	
MUS 380 Chamber Orchestra	
MUS 381 Symphonic Band	
MUS 382A-H Chamber Music:	
MUS 385 Concert Choir	
MUS 386 Chamber Singers	
Four units in music courses at the upper-division level.	4
Total Units	28

## Minor in Recording Arts

### Requirements (28 units)

### Requirements for a minor in Recording Arts

MUS 100 Fundamentals of Music Theory & MUS 101 and Basic Musicianship	4
MUS 120 Theory I & MUS 121 and Musicianship I	4
MUS 122 Theory II & MUS 123 and Musicianship II	4
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.	
MUS 266 Introduction to Computer and Electronic Music	4

MUS 267	Introduction to Studio Recording Techniques	4
MUS 416	Advanced Computer and Electronic Music	4
MUS 427	Advanced Studio Recording Techniques	4
<hr/>		
Total Units		28

## Department of Philosophy

### Department of Philosophy

University Hall, Room 339  
(909) 537-5869 Department of Philosophy (<http://philosophy.csusb.edu>)

### 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. 270)

### Minors

- Law and Philosophy (p. 271)
- Philosophical Logic (p. 271)
- Philosophy (p. 272)
- Philosophy, Policy, and Economics (p. 272)

## 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.**

(GE=A4)

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, Sceptics 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

Addresses 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 400. Advanced Issues in Logic. 4 Units.**

Prerequisites: PHIL 300 or consent of instructor

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 410. 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 460. 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 ethics, social philosophy and/or political philosophy. May be repeated for credit as topics change.

**PHIL 472. 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 485. Advanced Issues in Metaphysics and Knowledge. 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 490. Philosophical Topics. 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 516. Senior Project. 1 Unit.**

Prerequisites: completion of 135 units, including 36 units of the philosophy major. Graded credit/no credit

Preparation and submission of a portfolio of writing representing successful work in the philosophy major, accompanied by a reflective essay showing the extent to which the student has satisfied the objectives and goals of the major.

**PHIL 575B. Internship in Philosophy. 2 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 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)****History of Philosophy (12)**

PHIL 311	Ancient Philosophy	4
PHIL 313	History of Modern Philosophy: Knowledge and Reality	4
PHIL 314	History of Modern Philosophy: Ethics and Politics	4

**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:		4
-------------------------	--	---

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:		4
-------------------------	--	---

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 24 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

PHIL 350	Ethics	4
PHIL 351	Topics in Moral and Political Philosophy	4
PHIL 359	Philosophy and Economics	4
PHIL 361A	Social and Political Philosophy: Classical Political Theories	4
PHIL 361B	Social and Political Philosophy: Themes in Social and Political Philosophy	4
PHIL 362	Philosophy of Law	4
PHIL 460	Advanced Issues in Value Theory	4

**Religious Studies:** A major in philosophy is excellent preparation for graduate study in theology. Students interested in careers in theology are advised to include among their electives at least three courses from

PHIL 192	Introduction to Philosophy of Religion	4
PHIL 312	Medieval Philosophy	4
PHIL 372	Philosophy of Religion	4
PHIL 375	Non-Western Philosophy	4
PHIL 472	Advanced Issues in Philosophy of Religion	4

## 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
----------	--	---

Four units chosen from: 4

PHIL 362	Philosophy of Law
----------	-------------------

PHIL 363	Jurisprudence
----------	---------------

Four units chosen from: 4

PHIL 350	Ethics
----------	--------

PHIL 361A	Social and Political Philosophy: Classical Political Theories
-----------	---

or PHIL 361B	Social and Political Philosophy: Themes in Social and Political Philosophy
--------------	--

### Electives (16)

Sixteen units chosen from (if not taken above): 16

PHIL 300	Predicate Logic
----------	-----------------

PHIL 314	History of Modern Philosophy: Ethics and Politics
----------	---

PHIL 350	Ethics
----------	--------

PHIL 351	Topics in Moral and Political Philosophy
----------	--

PHIL 353	Topics in Applied Ethics
----------	--------------------------

PHIL 355	Contemporary Ethical Issues
----------	-----------------------------

PHIL 361A	Social and Political Philosophy: Classical Political Theories
-----------	---

or PHIL 361B	Social and Political Philosophy: Themes in Social and Political Philosophy
--------------	--

PHIL 362	Philosophy of Law
----------	-------------------

PHIL 363	Jurisprudence
----------	---------------

PHIL 460	Advanced Issues in Value Theory
----------	---------------------------------

PHIL 575B	Internship in Philosophy
-----------	--------------------------

PHIL 595B	Independent Study
-----------	-------------------

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 300	Predicate Logic	4
----------	-----------------	---

PHIL 381	Philosophy of Logic	4
----------	---------------------	---



or PHIL 383	Philosophy of Mathematics	
Four units chosen from:		4
PHIL 400	Advanced Issues in Logic (Introductory Metalogic)	
PHIL 400	Advanced Issues in Logic (Incompleteness and Computability)	

**Electives (8)**

Eight units chosen from:		8
PHIL 306	Inductive Logic	
PHIL 308	Alternative Logics	
PHIL 381	Philosophy of Logic	
PHIL 383	Philosophy of Mathematics	
PHIL 400	Advanced Issues in Logic	

Total Units		24
-------------	--	----

**NOTE:** PHIL 400 may be repeated for elective credit as topics change; however elective credit is available only for topics other than the 400 topic that satisfies the core requirement.

The Minor in Philosophical Logic is open to students in any major. However, except for PHIL 200 and PHIL 300, courses taken for credit in the Minor in Philosophical Logic do not count toward satisfaction of the Philosophy major or minor.

## Minor in Philosophy

### Requirements (32 units)

### Requirements for a minor in Philosophy

#### History of Philosophy (8)

Eight units chosen from:		8
PHIL 311	Ancient Philosophy	
PHIL 313	History of Modern Philosophy: Knowledge and Reality	
PHIL 314	History of Modern Philosophy: Ethics and Politics	
PHIL 410	Advanced Issues in History of Philosophy	

#### Metaphysics/Knowledge (8)

Eight units chosen from:		8
PHIL 380	Metaphysics	
PHIL 385	Theory of Knowledge	
PHIL 386	Philosophy of Science	
PHIL 387	Philosophy of Language	
PHIL 485	Advanced Issues in Metaphysics and Knowledge	

#### Value theory (16)

Four units chosen from:		4
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 460	Advanced Issues in Value Theory	

Twelve units of electives chosen from philosophy courses; with at most four elective units at the 100- or 200-level; PHIL 200 must be included among these courses unless taken to satisfy the GE Critical Thinking (A4) requirement.		12
---	--	----

Total Units		32
-------------	--	----

No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the minor. No course counts in more than one category of the minor; however, for courses such as the Advanced Issues courses which can be repeated with different topics, the different topics may apply in different categories

## Minor in Philosophy, Policy, and Economics

### Requirements (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:		8-12
PHIL 314	History of Modern Philosophy: Ethics and Politics	
PHIL 350	Ethics	
PHIL 353	Topics in Applied Ethics	
PHIL 359	Philosophy and Economics	
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 460	Advanced Issues in Value Theory	

#### Economics (8-12)

Select 8-12 units of the following:		8-12
ECON 443	Origins of Political Economy	
ECON 445	Political Economy	
ECON 500	History of Economic Thought	
ECON 520	Social Economics	
ECON 530	The Good Economy	

#### Political Science (8-12)

Select 8-12 units of the following:		8-12
PSCI 310	Classical Political Thought	
PSCI 311	Foundations of Modern Political Thought	
PSCI 313	Modern Political Thought	
PSCI 315	Post Modern Political Thought	

Total Units		24-36
-------------	--	-------

# Department of Theatre Arts

## 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 (not offered in the 2015-16 Academic Year)

- 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/ designed productions. In addition, the department has touring groups including The Imagination Players, an elementary school tour; and the Sun Tour, multiethnic theme plays for high school and community college students.

In addition to acting and backstage opportunities, theatre students are encouraged to work with faculty as assistant directors, designers, stage managers, and in theatre administration. Theatre faculty encourage highly motivated and qualified students to develop their own creative

efforts. New student play scripts and innovative approaches to theatre are strongly encouraged.

Theatre arts majors choose to concentrate in one of 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. 286).

### Current Faculty

Carol Damgen, Lecturer

B.A. 2003, M.A. 2006, California State University, San Bernardino

Glen Dunzweiler, Assistant Professor

MFA, 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. 284) with emphases in:
  - Acting
  - Dance
  - Design/Technical
  - Drama Education
  - Musical Theatre

## Graduate Degree

### Master of Arts (not offered in the 2015-16 Academic Year)

- Theatre Arts (p. 286)

### Minors

- Film Studies (p. 220) (The Department of Theatre Arts participates in the interdisciplinary minor in Film Studies.)
- Script Writing (p. 221)
- Theatre Arts (p. 287)

### Certificate Programs

- Puppetry (p. 285)
- Theatre for Youth (p. 286)

### 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. 236) (lower-division requirements and upper-division requirements 1-7), as well as the following:

COMM 245	Introduction to TV and Video Production	4
ENG 312 or ENG 420	Theories of Language Acquisition and Learning English Grammar I	4
ENG 306 or HUM 306	Expository Writing for English Expository Writing for the Humanities	4
Six units chosen from:		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	
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

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. 482) credential program, contact the Credentials Office, CE-102.

**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.

### **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 (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.)

### **TA 212. Oral Interpretation of Literature. 4 Units.**

(GE=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.**

(GE=G2)

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.**

Introduction to Chicana/o and Latina/o dramatic literature and performance in the U.S. (1965-present). Examines diverse factors associated with the birth and development of Chicana/o and Latina/o theatre.

### **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 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 555A. 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

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 555B. 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

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 555C. 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

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 555D. 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

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 555E. 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 555F. 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.

**TA 694A. Graduate Project Preparation. 1 Unit.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing

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.

**TA 694B. Graduate Project Preparation. 2 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing

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.

**TA 694C. Graduate Project Preparation. 3 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing

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.

**TA 694D. Graduate Project Preparation. 4 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing

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.

**TA 694E. Graduate Project Preparation. 5 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, and good academic standing

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.

**TA 695A. Advanced Project. 1 Unit.**

Prerequisites: advancement to candidacy

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision.

**TA 695B. Advanced Project. 2 Units.**

Prerequisites: advancement to candidacy

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision.

**TA 695C. Advanced Project. 3 Units.**

Prerequisites: advancement to candidacy

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision.

**TA 695D. Advanced Project. 4 Units.**

Prerequisites: advancement to candidacy

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision.

**TA 695E. Advanced Project. 5 Units.**

Prerequisites: advancement to candidacy

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision.

**TA 696A. Advanced Internship. 1 Unit.**

Prerequisites: advancement to candidacy

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.

**TA 696B. Advanced Internship. 2 Units.**

Prerequisites: advancement to candidacy

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.

**TA 696C. Advanced Internship. 3 Units.**

Prerequisites: advancement to candidacy

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.

**TA 696D. Advanced Internship. 4 Units.**

Prerequisites: advancement to candidacy

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.

**TA 696E. Advanced Internship. 5 Units.**

Prerequisites: advancement to candidacy

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency.

**TA 697A. Thesis Preparation. 1 Unit.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing

Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.

**TA 697B. Thesis Preparation. 2 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing

Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.

**TA 697C. Thesis Preparation. 3 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing

Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.

**TA 697D. Thesis Preparation. 4 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing

Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.

**TA 697E. Thesis Preparation. 5 Units.**

Prerequisites: advancement to candidacy, approval of graduate coordinator, good academic standing

Preparation for independent graduate research in theatre arts including proposal development and research. May be repeated for credit.

**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:		2
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:		9
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	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:		4
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:		8
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: 2

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:		12
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	

TA 357	Acting for the Camera	
TA 446	Directing II	
TA 459	Performance for New Media	
Total Units		19

## Dance Emphasis

Twelve units (at least six of which must be upper-division) chosen from: 12

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: 7

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) 2

TA 334 Theatrecrafts (for a total of 6) 6

Three units chosen from: 3

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: 6

TA 332	Stage Lighting Design	
TA 333	Stage Sound Design	
TA 337	Design: Costume Design	
TA 338	Design: Scene Design	

Two units chosen from: 2

TA 321A	Technical Practicum	
TA 321B	Technical Practicum	

TA 535B	Independent Project	
Total Units		19

## Drama Education Emphasis

DAN 481 Creative Dance in the Classroom 4

TA 481 Creative Drama in the Classroom 3

Twelve units chosen from: 12

DAN 580	Advanced Creative Dance Methods	
TA 320B	Performance Practicum: Imagination Players	
TA 320C	Performance Practicum: Touring Theatre	
TA 347	Playwriting	
TA 446	Directing II	
TA 483	Childrens Theatre	
TA 484	Readers Theatre 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 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 2

TA 340 Singing for Musical Theatre 4

Four units chosen from: 4

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 3

TA 401 History of Musical Theatre (cannot be taken as part of upper-division core) 4

Four units chosen from: 4

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	

Total Units 21

## 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

TA 334	Theatrecrafts (when the topic is puppetry)	3
TA 356	Puppetry	3
TA 358	Puppetry for the Camera	3
TA 458	Theatre for Youth: History and Literature	4
TA 526	Puppetry Workshop	3
Four units chosen from:		4
TA 233	Costume Construction	
TA 235	Fundamentals of Stage Design	
TA 321A	Technical Practicum	
TA 321B	Technical Practicum	
Twelve units chosen from:		12
TA 240	Improvisation	
TA 253	Voice for the Stage	
TA 351	Acting III: Scene Study	
TA 346	Directing I	
TA 484	Readers Theatre in the Classroom	
TA 486	Puppetry in the Classroom	
Total Units		32

## 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

TA 481	Creative Drama in the Classroom	3
TA 483	Childrens Theatre	4
Six units chosen from:		6
TA 240	Improvisation	
TA 484	Readers Theatre in the Classroom	
TA 486	Puppetry in the Classroom	
TA 446	Directing II	
Four units chosen from:		4
TA 579	Theatre in the Elementary Classroom	
TA 580	Advanced Creative Drama in the Classroom	
TA 581	Theatre in the Secondary Classroom	
Four units chosen from:		4
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 385	Acting for Non-Majors	
Three units chosen from:		3
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 235	Fundamentals of Stage Design	
TA 239	Stagecraft	
TA 321A	Technical Practicum	
TA 321B	Technical Practicum	
TA 334	Theatrecrafts	
Eight units chosen from:		8
TA 221	Theatre Laboratory: Performance	
TA 347	Playwriting	
TA 446	Directing II	
TA 461	American Drama	
TA 462	African-American Theatre and Drama	
TA 463	Asian Theatre	
TA 466	Issues in Gay, Lesbian, Bisexual, and Transgender Theatre	
TA 468	Chicana/o and U.S. Latina/o Theatre	
TA 510	Studies of Major Figures and Genres	
TA 520	Theatre Seminar	
Total Units		32

## Master of Arts in Theatre Arts

### Not offered in the 2015-16 Academic Year

#### Requirements (45 units)

The M.A. in Theatre Arts is designed for students who wish to apply advanced theories, methodologies, and technologies of theatre in their careers as theatre artists and educators, and for those who wish to advance from this degree to further graduate work. The program is unique in its flexibility, wide range of theatre education opportunities, and

specialized faculty. Students are required to develop focused programs of study.

## Admission to the Program

Students must fulfill all the general requirements for admission to graduate studies at this university. Applications for admission to the program should be sent to the department graduate coordinator and must include:

1. A resume describing relevant professional and educational experience in Theatre and classroom teaching;
2. Three letters of recommendation attesting to academic aptitude and creative accomplishments;
3. A one-page essay describing life/career goals and the role the applicant sees this degree playing in accomplishing these goals;
4. Completion of the graduate entrance writing requirement.

## Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Selected an advisor with the consent of the faculty member and the approval of the graduate coordinator;
2. Formed a three member advisory committee prior to completion of 16 units;
3. Secured approval from student's advisory committee and graduate coordinator of a course of study, prior to completion of 20 units.

## Requirements for Graduation

1. Advancement to candidacy;
2. A minimum of 45 quarter units of acceptable graduate level work with no fewer than 32 of these units at the 500- or 600-level;
3. A grade point average of at least 3.0 ("B") in all graduate course work and grades of "C" (2.0) or better in all courses in the program;
4. A capstone experience of a project or internship approved by the student's advisory committee and graduate coordinator;
5. Successful completion of TA 695 or TA 699 which also meets the department's graduation writing requirements.

## Degree Requirements (45 units)

Twelve units chosen from: 12

DAN 450	Choreography
DAN 481	Creative Dance in the Classroom
DAN 580	Advanced Creative Dance Methods
ENG 511	Creative Writing in the Secondary Classroom
ENG 535	Images of Culture Through Childrens Literature
TA 401	History of Musical Theatre
TA 445	The Camera Eye
TA 459	Performance for New Media
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 505	Criticism of Theatre in Performance
TA 510	Studies of Major Figures and Genres

TA 535A-D	Independent Project	
TA 555A-F	Independent Study	
TA 579	Theatre in the Elementary Classroom	
TA 580	Advanced Creative Drama in the Classroom	
TA 581	Theatre in the Secondary Classroom	
TA 694A-E	Graduate Project Preparation	
TA 697A-E	Thesis Preparation	
Total Units		12

## Minor in Theatre Arts

### Requirements (24 units)

### Requirements for a minor in Theatre Arts

#### Lower-division requirement (4)

TA 260	Introduction to Theatre	4
--------	-------------------------	---

#### Upper-division requirement (2)

Two units chosen from:		2
------------------------	--	---

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	
TA 321B	Technical Practicum	

#### Emphases (18)

Eighteen units chosen from one of the following emphases (minimum 18 of seven units must be upper-division):

Total Units	24
-------------	----

## Emphases

### Acting Emphasis

TA 251	Acting I: Games and Exercises	3
TA 252	Acting II: Creating a Role	3
TA 351	Acting III: Scene Study	3
Nine units chosen from:		9

TA 131	Makeup for Stage and Screen	
TA 240	Improvisation	
TA 245	Beginning Theatre Movement	
TA 253	Voice for the Stage	
TA 345	Advanced Voice and Movement	
TA 346	Directing I	
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	
TA 357	Acting for the Camera	
TA 446	Directing II	
TA 459	Performance for New Media	

Total Units	18
-------------	----



**Dance Emphasis**

Ten units chosen from: 10

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: 8

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**

TA 235 Fundamentals of Stage Design 4

Six units chosen from: 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

Eight units chosen from: 8

TA 130	Computer Applications for Technical Theatre
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
TA 338	Design: Scene Design
TA 535A-D	Independent Project

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: 11

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: Imagination 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: 8

TA 302B	Analysis and Writing of Drama
TA 347	Playwriting
TA 505	Criticism of Theatre in Performance

Eight units chosen from: 8

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

A minimum of two units chosen from: 2

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

Total Units 18

**Puppetry Emphasis**

TA 334 Theatrecrafts (when the topic is puppetry) 3

TA 356 Puppetry 3

TA 358 Puppetry for the Camera 3

TA 526 Puppetry Workshop 3

Six units chosen from: 6

TA 233	Costume Construction
TA 235	Fundamentals of Stage Design
TA 240	Improvisation
TA 253	Voice for the Stage
TA 346	Directing I
TA 351	Acting III: Scene Study
TA 458	Theatre for Youth: History and Literature
TA 486	Puppetry in the Classroom
<hr/>	
Total Units	18

## Department of World Languages and Literatures

University Hall, Room 314  
(909) 537-5847 Department of World Languages and Literatures (<http://flan.csusb.edu>)

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
- Healthcare Spanish
- Hispanic Literatures  
Spanish Applied Linguistics
- Spanish for Public Services

**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)	4
----------	--	---

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

Kareen 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  
M.A. 2000, Ph.D. 2008, Arizona State University

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

Mirta 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. 324)  
**Coordinator:** Dany Doueiri
- French (p. 329) with tracks in:
  - French and Francophone Studies
  - Teacher
  - Business
- Spanish (p. 330) with tracks in:
  - Business
  - Communication
  - Hispanic Cultural Studies
  - Hispanic Literature, Language, and Civilization

## Graduate Degrees

### Master of Arts

- Spanish (p. 338)
  - Spanish Language Teaching
  - Hispanic Applied Linguistics
  - Hispanic Literature, Linguistics and Civilization

**Coordinator:** Carmen Jany

## Minors

- Arabic (p. 339)  
**Coordinator:** Dany Doueiri
- French (p. 340)  
**Coordinator:** Aurora Wolfgang
- German (p. 340)  
**Coordinator:** Ruth Burke
- Japanese (p. 341)
- Spanish (p. 341)

## Certificates

- Arabic (p. 333)  
**Coordinator:** Dany Doueiri
- Bilingual/Cross-Cultural Studies: Spanish/English (p. 334)
- California Indian Languages and Cultures (p. 334)  
**Coordinator:** Carmen Jany
- French/English Translation (p. 335)  
**Coordinator:** Aurora Wolfgang

- German/English Translators (p. 332)
- Healthcare Spanish (p. 337)
- Hispanic Literatures (p. 335)
- Japanese Language and Culture (p. 336)
- Spanish Applied Linguistics (p. 336)
- Spanish for Public Services (p. 337)

## 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

(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.**

(GE=C3)

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 ARAB 312 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.**

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 101M. Language Study I: Hebrew. 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 101N. Language Study I: Hindi. 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 101O. Language Study I: Tagalog. 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 102Q. 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 102R. 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 102S. 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 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 102U. 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 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 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 202T. Second Year Language Study II: Cupeño. 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 202U. Second Year Language Study II: Nahuatl. 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 203L. 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 203M. 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 203N. 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 203O. 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 203P. 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 203Q. 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 203R. 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 203S. 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 203T. 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 203U. 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

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 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 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. 3rd 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 302O. Third Year Language Study II: Tagalog. 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 research proposal which must be signed by instructor of the discipline-based course

Research in a target language for courses in another discipline. Can be repeated for up to four units.

### **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/nocredit.

**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/nocredit.

**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.**

(GE=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 FREN 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 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.

**FREN 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.

**FREN 407. Comparative Linguistics: French/English. 4 Units.**

Prerequisites: FREN 295 and 307 or consent of department  
Application of modern linguistic theory to the problems of second-language acquisition in the areas of phonology, morphology, and syntax. Emphasis on practical implementation for teaching purposes.

**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 FREN 350 or consent of department. FREN 409 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.**

Analysis of Japanese business etiquette and culture. Focus on Japanese business practices, traditions, values and communication styles, including practical tips for doing business in Japanese. Taught primarily in English with introduction of Japanese vocabulary.

**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 equivalent  
(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 251. Intermediate Healthcare Spanish I. 4 Units.**

Prerequisites: SPAN 103 or equivalent

First course in an intermediate-level sequence in Healthcare Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to healthcare related vocabulary, concepts, and situations.

**SPAN 252. Intermediate Healthcare Spanish II. 4 Units.**

Prerequisites: SPAN 251 or equivalent

Second course in an intermediate-level sequence in Healthcare Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to healthcare related vocabulary, concepts, and situations.

**SPAN 253. Intermediate Healthcare Spanish III. 4 Units.**

Prerequisites: SPAN 252 or equivalent

Third course in an intermediate-level sequence in Healthcare Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to healthcare related vocabulary, concepts, and situations.

**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

Literature. 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

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 312C. Techniques for Professional Interpreting and Translating in Spanish. 4 Units.**

Prerequisites: SPAN 302 and 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 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 351. Culture, Health, and Food in Latin America. 4 Units.**

Prerequisites: SPAN 203 or 253 or equivalent

This course develops students' knowledge of culture as related to healthcare practices and nutrition in Latin America and Spanish-speaking communities in the US.

### **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 avante-garde artists. Explores important themes as well as significant directors and their unique use of photography, music, literature, and scripting. Each topic may be taken once for credit. 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 avante-garde artists. Explores important themes as well as significant directors and their unique use of photography, music, literature, and scripting. Each topic may be taken once for credit. 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 avante-garde artists. Explores important themes as well as significant directors and their unique use of photography, music, literature, and scripting. Each topic may be taken once for credit. 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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, 318, 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 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  
Sociolinguistics of the Hispanic World. 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 Dialectology. 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  
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 620D. 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: 12

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 212	Arabic Composition
ARAB 214	Conversation in Arabic
ARAB 216	Introduction to Arabic Literary Texts

### Upper-division (minimum of 12 units) (12)

Twelve units chosen from: 12

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 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 22  
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)
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
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.**

(GE=C3)

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 ARAB 312 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.**

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.

**Bachelor of Arts in French****Requirements (70 units)**

Total units required for graduation: 180

**Requirements for the B.A. in French****Core requirements (70)**

FREN 202	Culture and Communication III	4
FREN 295	Intermediate Assessment	2
FREN 303	Contemporary Spoken French	4
FREN 307	Phonetics	4
FREN 350	Advanced French Composition	4
FREN 450	Advanced Grammar Review	4
FREN 496	Senior Assessment	2
One of the following tracks		46
<b>Total Units</b>		<b>70</b>

**French and Francophone Studies Track**

Forty-six units chosen from: 46

FREN 250	Reading and Interpretation
FREN 270B-D	Introduction to French Culture
FREN 275	Introduction to French Business Culture
FREN 310	Approaches to Literature
FREN 321	French for Translation I
FREN 322	French for Translation II
FREN 323	Commercial Translation
FREN 324	Technical Translation
FREN 336	Francophone Women Writers
FREN 360	Contemporary French Fiction
FREN 370	Francophone Film and Culture
FREN 381	French Civilization I
FREN 382	French Civilization II
FREN 399A	Community Service Project
FREN 399B	Community Service Project
FREN 407	Comparative Linguistics: French/English
FREN 408	Introduction to French Advertising
FREN 409	Business French
FREN 410	Business French Case Studies
FREN 411	Studies in the Novel
FREN 412	Studies in Theater
FREN 413	Studies in Poetry
FREN 420	Special Topics in French Literature
FREN 460	Contemporary France
FREN 461	Contemporary Issues in the Francophone World
FREN 470B	Special Topics in Francophone Cultures
FREN 470D	Special Topics in Francophone Cultures

FREN 471	Culture and Identity
FREN 514	Seminar in French Language, Literature or Civilization
FREN 575A-D	Internship

Total Units 46

**Teacher Track**

FLAN 312	Pedagogies for Foreign Language Teaching	4
FLAN 350	Language Acquisition and Early Field Experience for Future Teachers	4
FREN 407	Comparative Linguistics: French/English	4
FREN 500	Advanced Performance Assessment	2

Thirty-two units chosen from: 32

FREN 250	Reading and Interpretation
FREN 270B-D	Introduction to French Culture
FREN 310	Approaches to Literature
FREN 321	French for Translation I
FREN 322	French for Translation II
FREN 336	Francophone Women Writers
FREN 360	Contemporary French Fiction
FREN 370	Francophone Film and Culture
FREN 381	French Civilization I
FREN 382	French Civilization II
FREN 399A	Community Service Project
FREN 399B	Community Service Project
FREN 408	Introduction to French Advertising
FREN 411	Studies in the Novel
FREN 412	Studies in Theater
FREN 413	Studies in Poetry
FREN 420	Special Topics in French Literature
FREN 460	Contemporary France
FREN 461	Contemporary Issues in the Francophone World
FREN 470B	Special Topics in Francophone Cultures
FREN 470D	Special Topics in Francophone Cultures
FREN 471	Culture and Identity
FREN 514	Seminar in French Language, Literature or Civilization
FREN 575A-D	Internship

Total Units 46

**Business Track**

FREN 321	French for Translation I	4
FREN 322	French for Translation II	4
FREN 409	Business French	4
FREN 410	Business French Case Studies	4

Fourteen units chosen from: 14

FREN 270B-D	Introduction to French Culture
FREN 275	Introduction to French Business Culture
FREN 323	Commercial Translation
FREN 324	Technical Translation
FREN 381	French Civilization I
FREN 382	French Civilization II

FREN 399A	Community Service Project	
FREN 399B	Community Service Project	
FREN 408	Introduction to French Advertising	
FREN 460	Contemporary France	
FREN 461	Contemporary Issues in the Francophone World	
FREN 471	Culture and Identity	
FREN 575A-D	Internship	
FIN 590	Seminar in Finance (when the topic is French Stock Market)	
ACCT 211	Introductory Accounting I	4
IST 101	Introduction to Information Technology	4
MGMT 302	Management and Organizational Behavior	4
MKTG 305	Marketing Principles	4
Total Units		46

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.

SPAN 302	Theory and Practice in Composition	4
SPAN 312B	Techniques for Professional Interpreting and Translating in Spanish	4
SPAN 316D	Spanish for the Professions: Business	4
SPAN 402	Advanced Composition	4
Four units chosen from:		4
SPAN 321	Spanish in the United States	
SPAN 415	Comparative Linguistics: Spanish/English	
SPAN 416	Advanced Study of Semantics, Pragmatics and Sociolinguistics	
SPAN 322	Origin and Contemporary Role of Hispanic Dialects	4
or SPAN 401	Phonetics	

##### Literature (8)

SPAN 318	Techniques of Literary Study and Analysis	4
Four units chosen from:		4
SPAN 370	Literature of the Conquest	
SPAN 371	Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century	

SPAN 372	Modern Peninsular Literature	
SPAN 373	Modern Latin American Literature	
<b>Civilization (8)</b>		
HUM 335	The Origin and Contemporary Role of Latino Culture	4
SPAN 410	Spanish Peninsular Civilization	4
or SPAN 412	Latin American Civilization	
<b>Practicum (4)</b>		
Four units chosen from:		4
SPAN 394A-E	Practicum	
SPAN 399	Departmental Service Project (for a total of 4)	
SPAN 575A-D	Internship in Service Learning (for a total of 4 units)	
<b>Electives (4)</b>		
Four units chosen from any upper-division Spanish courses.		4
<b>Assessments (2)</b>		
SPAN 295	Intermediate Skills Assessment	1
SPAN 496	Senior Assessment	1
<b>Business (24)</b>		
ACCT 211	Introductory Accounting I	4
IST 101	Introduction to Information Technology	4
MGMT 302	Management and Organizational Behavior	4
MKTG 305	Marketing Principles	4
Eight upper-division units chosen from a specific area in ACCT, IST, MGMT or MKTG.		8
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.

SPAN 302	Theory and Practice in Composition	4
SPAN 312B	Techniques for Professional Interpreting and Translating in Spanish	4
SPAN 316A	Spanish for the Professions: Communications	4
SPAN 402	Advanced Composition	4
Four units chosen from:		4
SPAN 321	Spanish in the United States	
SPAN 415	Comparative Linguistics: Spanish/English	
SPAN 416	Advanced Study of Semantics, Pragmatics and Sociolinguistics	
SPAN 322	Origin and Contemporary Role of Hispanic Dialects	4
or SPAN 401	Phonetics	

##### Literature (8)

SPAN 318	Techniques of Literary Study and Analysis	4
----------	---	---

Four units chosen from:	4
SPAN 370 Literature of the Conquest	
SPAN 371 Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century	
SPAN 372 Modern Peninsular Literature	
SPAN 373 Modern Latin American Literature	
SPAN 435 Chicano Literature in Spanish	
<b>Civilization (8)</b>	
HUM 335 The Origin and Contemporary Role of Latino Culture	4
SPAN 410 Spanish Peninsular Civilization	4
or SPAN 412 Latin American Civilization	
<b>Practicum (4)</b>	
Four units chosen from:	4
SPAN 394A-E Practicum	
SPAN 399 Departmental Service Project (for a total of 4)	
SPAN 575A-D Internship in Service Learning (for a total of 4 units)	
<b>Electives (4)</b>	
Four units chosen from any upper-division Spanish courses.	4
<b>Assessments (2)</b>	
SPAN 295 Intermediate Skills Assessment	1
SPAN 496 Senior Assessment	1
<b>Communication Studies (8)</b>	
COMM 200 Introduction to Communication Studies	4
COMM 304 Intercultural Communication	4
<b>Electives (16)</b>	
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 Latina/os, Media and Culture	
COMM 415 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	74

## 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	4
SPAN 314	Advanced Conversation	4
SPAN 316A	Spanish for the Professions: Communications	4
SPAN 402	Advanced Composition	4

Four units chosen from:

SPAN 321	Spanish in the United States	4
SPAN 415	Comparative Linguistics: Spanish/English	4
SPAN 416	Advanced Study of Semantics, Pragmatics and Sociolinguistics	4

SPAN 322	Origin and Contemporary Role of Hispanic Dialects	4
or SPAN 401	Phonetics	4

### Literature (24)

SPAN 318	Techniques of Literary Study and Analysis	4
----------	---	---

Twelve units chosen from:

SPAN 370	Literature of the Conquest	4
SPAN 371	Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century	4
SPAN 372	Modern Peninsular Literature	4
SPAN 373	Modern Latin American Literature	4
SPAN 435	Chicano Literature in Spanish	4

Eight units chosen from:

SPAN 515A-G	Seminar in Spanish Peninsular Literature, Culture or Film:	8
SPAN 516A-G	Seminar in Spanish American Literature, Culture or Film:	8
SPAN 517A-D	Seminar in Hispanic Linguistics:	8

### Civilization (12)

SPAN 410	Spanish Peninsular Civilization	4
SPAN 412	Latin American Civilization	4
HUM 335	The Origin and Contemporary Role of Latino Culture	4

### Practicum (4)

Four units chosen from:

SPAN 394A-E	Practicum	4
SPAN 399	Departmental Service Project	4
SPAN 575A-D	Internship in Service Learning (for a total of 4 units)	4

### Electives (4)

Four units chosen from any upper-division Spanish courses.	4
<b>Assessments (2)</b>	
SPAN 295 Intermediate Skills Assessment	1
SPAN 496 Senior Assessment	1
Total Units	74

## B.A. in Spanish - Hispanic Literature, Language and Civilization Track

### Requirements (82 units)

Total units required for graduation: 180

### Requirements for the B.A. in Spanish - Hispanic Literature, Language, and Civilization Track

#### Language (32)

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.

FLAN 350	Language Acquisition and Early Field Experience for Future Teachers	4
SPAN 302	Theory and Practice in Composition	4
SPAN 314	Advanced Conversation	4
SPAN 401	Phonetics	4
SPAN 402	Advanced Composition	4
SPAN 415	Comparative Linguistics: Spanish/English	4
SPAN 416	Advanced Study of Semantics, Pragmatics and Sociolinguistics	4

Four units chosen from: 4

SPAN 312A	Techniques for Professional Interpreting and Translating in Spanish	
SPAN 312B	Techniques for Professional Interpreting and Translating in Spanish	
SPAN 312C	Techniques for Professional Interpreting and Translating in Spanish	
SPAN 316A	Spanish for the Professions: Communications	
SPAN 316B	Spanish for the Professions: Health Science	
SPAN 316C	Spanish for the Professions: Education	
SPAN 316D	Spanish for the Professions: Business	
SPAN 316E	Spanish for the Professions: Law Enforcement	

#### Literature (28)

SPAN 318	Techniques of Literary Study and Analysis	4
----------	---	---

Twelve units chosen from: 12

SPAN 370	Literature of the Conquest	
SPAN 371	Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century	
SPAN 372	Modern Peninsular Literature	
SPAN 373	Modern Latin American Literature	

Four units chosen from: 4

SPAN 440	Mexican Literature	
SPAN 442	Literature of the Southern Cone	
SPAN 443	Literature of the Caribbean	

SPAN 445	The Narrative of Spanish America	
SPAN 446	Literature of the Renaissance and the Spanish Golden Age	
SPAN 447	Romanticism and Realism in Spain	
SPAN 448	Twentieth Century Spanish Literature	
SPAN 449	Literature of the Indigenous Peoples of Spanish America	

Four units chosen from: 4

SPAN 515A-G	Seminar in Spanish Peninsular Literature, Culture or Film:	
SPAN 516A-G	Seminar in Spanish American Literature, Culture or Film:	

Four units chosen from: 4

SPAN 517A	Seminar in Hispanic Linguistics: Grammar	
SPAN 517B	Seminar in Hispanic Linguistics: Dialectology	
SPAN 517C	Seminar in Hispanic Linguistics: Language in Society	
SPAN 517D	Seminar in Hispanic Linguistics: Teaching Methodology	

#### Civilization (12)

SPAN 410	Spanish Peninsular Civilization	4
SPAN 412	Latin American Civilization	4
HUM 335	The Origin and Contemporary Role of Latino Culture	4

#### Practicum (4)

Four units chosen from: 4

SPAN 394A-E	Practicum	
SPAN 399	Departmental Service Project ( )	
SPAN 575A-D	Internship in Service Learning (for a total of 4 units)	

#### 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		82

## 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)

GER 212	Composition	4
GER 214	Conversation	4
GER 216	Introduction to Literary Texts	4

### Upper-division requirements (24)

ENG 306	Expository Writing for English	4
GER 309	Advanced German Composition	4
GER 311	Survey of German Literature	4
GER 312	Business German	4
GER 313	Technical and Scientific Translation	4
HUM 460	Cultural Studies (when the topic pertains to Germany)	4

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)

Twelve units chosen from: 12

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 212	Arabic Composition
ARAB 214	Conversation in Arabic
ARAB 216	Introduction to Arabic Literary Texts
ARAB 290	Arabic Literature in Translation

### Upper-division requirements (20)

Twelve units chosen from: 12

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
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 (for a total of 6 units)
HUM 580A-F	International Experience: Arabic (1-6 units)

Eight units chosen from: 8

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 <sup>1</sup>
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
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.	
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.

<sup>1</sup> 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)

SPAN 203	Intermediate Spanish III	4
----------	--------------------------	---

### Upper-division requirements (28)

COMM 304	Intercultural Communication	4
----------	-----------------------------	---

SPAN 318	Techniques of Literary Study and Analysis	4
----------	---	---

Eight units chosen from:		8
--------------------------	--	---

ART 328	Mexican Art
---------	-------------

ART 329	Chicano Art
---------	-------------

SPAN 415	Comparative Linguistics: Spanish/English
----------	--

SPAN 440	Mexican Literature
----------	--------------------

Twelve units chosen from:		12
---------------------------	--	----

ANTH 354	Cultures of Mexico and Central America
----------	--

ANTH 356	Cultures of South America
----------	---------------------------

ANTH 388	Language and Culture
----------	----------------------

HIST 390	History of Modern Mexico
----------	--------------------------

HIST 391	Chicano History
----------	-----------------

HIST 470	Modern Latin America
----------	----------------------

HUM 450	Aspects of Chicana/o Culture
---------	------------------------------

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: 4

FLAN 103Q	Language Study III: Luiseño
FLAN 103R	Language Study III: Cahuilla
FLAN 103S	Language Study III: Serrano

Four units chosen from: 4

FLAN 201Q	Second Year Language Study I: Luiseño
FLAN 202Q	Second Year Language Study II: Luiseño
FLAN 203Q	Second Year Language Study III: Luiseño
FLAN 201R	Second Year Language Study I: Cahuilla
FLAN 202R	Second Year Language Study II: Cahuilla
FLAN 203R	Second Year Language Study III: Cahuilla
FLAN 201S	Second Year Language Study I: Serrano
FLAN 202S	Second Year Language Study II: Serrano
FLAN 203S	Second Year Language Study III: Serrano

Four units chosen from: 4

HUM 460	Cultural Studies (topic title California Indian Languages)
ANTH 381	California Indian Linguistic Anthropology
FLAN 555D	Independent Study *
HUM 595D	Independent Study in the Humanities *
ANTH 575D	Internship in Anthropology *
HIST 575	Internship in History *

### Electives (12)

Any of the required courses above may also count as electives if not taken above

Twelve units chosen from: 12

ANTH 323	Native North American Art
or ART 323	Native North American Art
ANTH 351	Indians of North America
ANTH 352	Indians of the Southwest
ANTH 388	Language and Culture
ANTH 390	Selected Topics in Anthropology:
ENG 312	Theories of Language Acquisition and Learning
ENG 314	American Indian Literature
ENG 319	Studies in Literary Diversity
ENG 321	Studies in Language and Linguistics
FLAN 350	Language Acquisition and Early Field Experience for Future Teachers
COMM 302	Communication, Language and Culture
COMM 304	Intercultural Communication

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.

FREN 295	Intermediate Assessment	2
FREN 321	French for Translation I	4
FREN 322	French for Translation II	4
FREN 323	Commercial Translation	4
FREN 350	Advanced French Composition	4

Eight units chosen from: 8

FREN 270B-D	Introduction to French Culture
FREN 324	Technical Translation
FREN 382	French Civilization II
FREN 408	Introduction to French Advertising
FREN 460	Contemporary France
FREN 461	Contemporary Issues in the Francophone World

Four units chosen from: 4

ENG 306	Expository Writing for English
HUM 306	Expository Writing for the Humanities
MGMT 306	Expository Writing for Administration

Total Units 30

## Certificate in Hispanic Literatures

### 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

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:		4
JAPN 210	Japanese Calligraphy	
JAPN 214	Conversation in Japanese	
JAPN 275	Japanese Business Culture	
JAPN 290	Japanese Literature in Translation	

### Upper-division requirements (12)

Eight units chosen from:		8
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:		4
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

### 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

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 615	Second Language Acquisition in Spanish	4
Four units chosen from:		4
SPAN 655A	Seminar in Applied Linguistics: Translation Techniques	
SPAN 655B	Seminar in Applied Linguistics: Spanish for the Professions	
SPAN 655C	Seminar in Applied Linguistics: Language and Media	
SPAN 655D	Seminar in Applied Linguistics: Applied Spanish Grammar	

### 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

### 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 (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)

SPAN 203	Intermediate Spanish III	4
----------	--------------------------	---

### Upper-division requirements (24)

SPAN 302	Theory and Practice in Composition	4
SPAN 312A-C	Techniques for Professional Interpreting and Translating in Spanish	4
SPAN 314	Advanced Conversation	4
Four units chosen from:		4
SPAN 316A	Spanish for the Professions: Communications	
SPAN 316B	Spanish for the Professions: Health Science	
SPAN 316C	Spanish for the Professions: Education	
SPAN 316D	Spanish for the Professions: Business	
SPAN 316E	Spanish for the Professions: Law Enforcement	
Four units chosen from:		4
SPAN 440	Mexican Literature	
SPAN 442	Literature of the Southern Cone	
SPAN 443	Literature of the Caribbean	
SPAN 445	The Narrative of Spanish America	
SPAN 446	Literature of the Renaissance and the Spanish Golden Age	
SPAN 447	Romanticism and Realism in Spain	
SPAN 448	Twentieth Century Spanish Literature	
SPAN 449	Literature of the Indigenous Peoples of Spanish America	
SPAN 415	Comparative Linguistics: Spanish/English	4
Total Units		28

## Healthcare Spanish Certificate

### Requirements (29 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

Students in all majors are eligible to participate in this program.

1. Students must meet general university admission requirements.
2. Students must have proficiency at the College Language III level (103) of consent of the program coordinator.

## Certificate Requirements (29 units)

SPAN 251	Intermediate Healthcare Spanish I	4
SPAN 252	Intermediate Healthcare Spanish II	4
SPAN 253	Intermediate Healthcare Spanish III	4
SPAN 295	Intermediate Skills Assessment	1
SPAN 316B	Spanish for the Professions: Health Science	4
SPAN 351	Culture, Health, and Food in Latin America	4
SPAN 575D	Internship in Service Learning (Note: needs to be completed in the healthcare field.)	4
Four units of electives chosen from:		4
SPAN 321	Spanish in the United States	
SPAN 322	Origin and Contemporary Role of Hispanic Dialects	
SPAN 412	Latin American Civilization	
Total Units		29

## Master of Arts in Spanish

### Requirements (45 units)

The M.A. in Spanish focuses on the strengthening of the know-ledge 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 of the Spanish-speaking world.

#### Core Courses (29)

SPAN 606	Research Methods	4
SPAN 608	History of the Spanish Language	4
SPAN 615	Second Language Acquisition in Spanish	4
SPAN 620A-D	Spanish Linguistics	4

Twelve units taken in education courses which may be selected from the following:

EDCI 620	School Curriculum	
EELB 606	Theory and Practice in Teaching Bilingual Students I	
EELB 611	Spanish Childrens Literature for the Bilingual Classroom	
EELB 612	Social and Cultural Contexts for School Learning	
EELB 625	Curriculum and Materials for Bilingual and ESL Classrooms	
EESL 536	Crosscultural Teaching	
SPAN 697	Comprehensive Examination	1
<b>Electives (16)</b>		
Sixteen units of electives of SPAN graduate-level courses in literature, language, and civilization.		16
<b>Total Units</b>		<b>45</b>

### 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)

SPAN 606	Research Methods	4
SPAN 608	History of the Spanish Language	4
SPAN 612	Studies in Hispanic Cultures	4
SPAN 615	Second Language Acquisition in Spanish	4
SPAN 620A-D	Spanish Linguistics	4
SPAN 625A-F	Spanish Peninsular Literature and Culture:	4
SPAN 630A-F	Spanish-American Literature and Culture:	4
SPAN 697	Comprehensive Examination	1

#### 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.		16
<b>Total Units</b>		<b>45</b>

### 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)

SPAN 606	Research Methods	4
SPAN 608	History of the Spanish Language	4
SPAN 612	Studies in Hispanic Cultures	4
SPAN 615	Second Language Acquisition in Spanish	4
SPAN 620A-D	Spanish Linguistics	4
Eight units chosen from:		8
SPAN 655A	Seminar in Applied Linguistics: Translation Techniques	
SPAN 655B	Seminar in Applied Linguistics: Spanish for the Professions	
SPAN 655C	Seminar in Applied Linguistics: Language and Media	

SPAN 655D	Seminar in Applied Linguistics: Applied Spanish Grammar	
SPAN 697	Comprehensive Examination	1
<b>Electives (16)</b>		
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.		16
<b>Total Units</b>		<b>45</b>

### 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:		12
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 212	Arabic Composition	
ARAB 214	Conversation in Arabic	
ARAB 216	Introduction to Arabic Literary Texts	
ARAB 290	Arabic Literature in Translation	

#### Upper-division requirements (20)

Twelve units chosen from:		12
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	
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 Arabic 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
HUM 580A-E	International Experience: Arabic
Eight units chosen from:	8
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 590D	Selected Topics in Anthropology <sup>1</sup>
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
ENG 319	Studies in Literary Diversity (when topic is Middle Eastern Literatures)
FIN 433	International Business Finance
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 555D	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.

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.

<sup>1</sup> 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
or FREN 310	Approaches to Literature	
FREN 295	Intermediate Assessment	2

Eight units chosen from: 8

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 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:		8
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
-------------	--	----

## 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.	28
---	----

---

Total Units	28
-------------	----

## Liberal Studies Program

### Liberal Studies Program

College of Education Building, Room 114  
(909) 537-5857 Liberal Studies website (<http://liberalstudies.csusb.edu>)

**Coordinator:** Katherine Thomerson

### Liberal Studies Peer Advising Center (PALS)

College of Education Building, Room 114  
(909) 537-5482

### Bachelor of Arts

- Liberal Studies - General Track
- Liberal Studies - Integrated Track
- Liberal Studies - Spanish Studies Track
- Liberal Studies - Arts and Letters Track

The Bachelor of Arts in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests require a more broadly based liberal arts curriculum than is possible through existing disciplines.

Most students pursuing this major intend to become teachers in K-8 classrooms and the Liberal Studies major program provides all the subject matter content required by the California Commission on Teacher Credentialing (CCTC).

The Liberal Studies Integrated Track leads to a Bachelor of Arts degree in Liberal Studies AND Multiple Subject Credential. It is designed for students who plan to become elementary, K-8, school teachers AND who want to save time (about 2 quarters or 27 units) by working on the credential along with their B.A. degree.

The General and Spanish Studies baccalaureate degree programs prepare students to enter the Multiple Subject (Elementary School) teaching credential, generally during a fifth year of post-graduate study in the College of Education.

An Arts and Letters Track is available for those seeking a well-rounded and unspecialized undergraduate major but who do not plan to become teachers. This program is useful for careers requiring a broad educational background and strong communication, computer, research, and critical thinking skills. A choice of interdisciplinary concentrations is available in this track and a Minor is also required as well.

### Departmental Honors

The Liberal Studies student will be eligible for departmental honors upon verification of the following three requirements:

1. Earned a 3.5 grade point average in the major;
2. Completed at least 45 units of Liberal Studies courses at this university;
3. Successful completion of oral and written honors evaluations.

## Undergraduate Degrees

### Bachelor of Arts

- Liberal Studies - General Track (p. 343)
- Liberal Studies - Integrated Track (p. 347)

- Liberal Studies - Spanish Studies Track (p. 350)
- Liberal Studies - Arts and Letters Track (p. 342)

## 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:	4
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
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: 4

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: 4

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

## 3. Minor Field (Minimum of 24 units)

The Minor must include a minimum of 16 units at the 300-level or above. Minors (p. 53) vary in size and range from 24-42 units.

## 4. Culminating Experience (5 units)

- HUM 497 to be taken during last quarter before graduation.
- A four-unit Independent Study Project to be completed in one of the disciplines used for the Concentration (#1) or Minor (#3) areas. This project should result in a significant written paper reporting on the research project carried out and should include a concluding essay relating the research topic to other courses and subjects in the area of Concentration or Minor and summarizing the student's accomplishments in the Liberal Studies major. Students will enroll in the appropriate independent study course offered by the department of the faculty member who has agreed to supervise this project

## 5. Free Electives

To be used if needed to reach minimum of 180 total units for the BA degree.

# Bachelor of Arts in Liberal Studies - General Track (Pre-Credential)

## Requirements (173 units)

Total units required for graduation: 180

### 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:

- 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;
- By completing the Liberal Studies program, students also can fulfill the general education requirements of the university;
- A course only can be counted once within the Liberal Studies program; for example, a course taken in the Concentration, category J, cannot be taken in a breadth area, categories A through I;
- The Liberal Studies, General Track program is designed especially for students who wish to enter elementary school teaching;
- 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;
- 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: 4

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 (4)

COMM 120	Oral Communication	4
HON 104C	Language and Meaning: Oral Communication (open only to Honors Program students)	

#### 3. Lower division Literature (G.E.) (4)

Four units chosen from: 4

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: \* 4

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)

Four units chosen from: 4

ENG 301A	Analysis of Poetry	
ENG 302A	Analysis of Drama	
ENG 303A	Analysis of Prose Fiction	
ENG 304A	Analysis of Nonfiction Prose	
TA 302A	Analysis of Drama	

#### 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 28

\* **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 Civilizations 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	

#### 4. American Government (G.E.) (4)

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: 5

ASTR 311	A Cosmic Perspective of Earth	
GEOG 311	The Dynamic Earth	

GEOL 309	Earth: The Blue Planet	
<b>4. Technology (G.E.) (2)</b>		
CSE 129	Science, Computing and Society	2
Total Units		22

## Group E: Visual and Performing Arts

<b>1. Art Appreciation (G.E.) (4)</b>		
Four units in the arts chosen from:		4
ART 200	Studies in Art	
MUS 180	Studies in Music	
TA 260	Introduction to Theatre	
<b>2. Music Activity (3)</b>		
MUS 370	Music for Elementary Classroom Teachers	3
<b>3. Theatre Activity (3)</b>		
Three units chosen from:		3
TA 481	Creative Drama in the Classroom	
TA 484	Readers Theatre in the Classroom	
TA 486	Puppetry in the Classroom	
<b>4. Visual Arts Activity (3)</b>		
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

<b>1. Physical Education (G.E.) (2)</b>		
Two units chosen from:		2
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:	
<b>2. Physical Fitness (G.E.) (2)</b>		
KINE 205	Foundations for Lifetime Fitness and Wellness	2
<b>3. Movement Skills (4)</b>		
DAN 481	Creative Dance in the Classroom	4
or KINE 352	Movement for Children	
<b>4. Health (2)</b>		
HSCI 100	Concepts in Health	2
Total Units		10

**Note:** Students must maintain a "C-" or better in this course.

## Group G: Human Development

<b>1. Child Development (6)</b>		
Students must choose 6 units from A or B below:		6
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 *	
<b>2. Exceptional Child (4)</b>		
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

<b>1. Critical Thinking (G.E.) (4)</b>		
Four units chosen from:		4
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 200	Critical Thinking Through Symbolic Logic	
PSYC 105	Critical Thinking Through Problems Analysis	
SOC 180	Critical Thinking about Social Problems	
<b>2. Philosophy (G.E.) (4)</b>		
Four units chosen from:		4
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	
<b>3. Foreign Language (G.E.) (4)</b>		
Four units chosen from:		4
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
GER 216	Introduction to Literary Texts
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
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

**4. Integrative Capstone in the Humanities (G.E.) (4)**

Four units chosen from: 4

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 Cultures 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

**5. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)**

Four units chosen from: 4

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
SSCI 350	Roots of Modern Racism in America **

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)**

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
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 \*

- Mathematics
- Music
- Physics
- Political Science
- Psychology
- Sociology\*
- Spanish\*
- Special Education
- Theatre Arts

- 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);

- 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;
- Requirements for admission to supervision (EELB 540A):
  - Passing score on CBEST;
  - Passing score on California Subject Examination for Teachers (CSET);
  - Completion of Phase I courses (EELB 313, EELB 315, EELB 317, EELB 510, and EELB 519).
- Additional requirements for the Multiple Subject Credential
  - Current and valid CPR certification that includes infant, child and adult;
  - Reading Instruction Competency Assessment (RICA).

## 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)

- The Liberal Studies Integrated Track is designed specifically for students who wish to enter elementary school teaching AND who want to save time by working on credential preparation along with their B.A. degree.
- The Integrated Track will not suit the needs of all students and, since the Liberal Studies program has several tracks from which to choose, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CE-114.
- Grades in categories A (with exception of A1 and A4), B, D, E, F, G, and I must be a "C-" or better.
- Grades in categories A1, A4, and C must be a "C" or better.
- Grades in categories J, K and L must be a "B-" or better with an overall GPA of 3.0 in those categories.
- Requirements for entering the Multiple Subject Credential program:
  - Junior status (90 quarter units),
  - Cumulative grade point average of 2.67 or higher,
  - Completion of lower division coursework,
  - Verification of a negative tuberculin examination within the last four years,

## Requirements for the B.A. in Liberal Studies - Integrated Track

### Group A: Reading, Language, and Literature

#### 1. Freshman Composition (4)

Four units chosen from:	4
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:	4
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: *	4
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)**

Four units chosen from:		4
ENG 301A	Analysis of Poetry	
ENG 302A	Analysis of Drama	
ENG 303A	Analysis of Prose Fiction	
ENG 304A	Analysis of Nonfiction Prose	
TA 302A	Analysis of Drama	

**6. Linguistics (4)**

ENG 311	The English Language	4
---------	----------------------	---

**7. Children's Literature (4)**

ENG 320	Children's Literature	4
or ENG 327	Literature for Adolescents and Young Adults	

Total Units		32
-------------	--	----

\* This requirement may be met by passing a proficiency examination.  
No unit credit is awarded for passing the examination.

**Group B: History and Social Science****1. World Civilization I (G.E.) (4)**

ANTH 140	World Civilizations 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	

**4. American Government (G.E.) (4)**

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
-------------	--	----

**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	5
----------	-------------------------------	---

PHYS 100	Physics in the Modern World	5
----------	-----------------------------	---

**3. Earth and Space Science (G.E.) (5)**

Five units chosen from:		5
-------------------------	--	---

ASTR 311	A Cosmic Perspective of Earth	
----------	-------------------------------	--

GEOG 311	The Dynamic Earth	
----------	-------------------	--

GEOG 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:		4
-------------------------------------	--	---

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:		3
--------------------------	--	---

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
---------	----------------------	---

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:		2
------------------------	--	---

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

**Group G: Human Development****1. Child Development (6)**

Students must choose 6 units from A or B below: 6

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
----------	---------------------------------------	---

**3. Integrative Capstone in the Humanities (G.E.) (4)**

Four units chosen from: 4

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 Cultures 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: 4

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	
----------	---------------------------------	--

SSCI 350	Roots of Modern Racism in America **	
Total Units		18

\* **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.

**Group H: Additional General Education Requirements****1. Critical Thinking (G.E.) (4)**

Four units chosen from: 4

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 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: 4

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: 4

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	
---------	--------------	--

GER 216	Introduction to Literary Texts	
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	
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	
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 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 510	Culture and Schooling in Multiple Subject Setting	4
EELB 520B	Teaching Performance Assessment Seminar: Designing Instruction Task 2	1
Total Units		16

#### Group K: Phase II

EELB 422	Classroom Organization, Management and Discipline	2
EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3

EELB 520C	Teaching Performance Assessment Seminar: Assessing Student Learning Task 3	1
EELB 540A	Supervised Student Teaching in Multiple Subject I	6
Total Units		16

#### Group L: Phase III

EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
EELB 532	Science/Health Curriculum and Pedagogy	4
EELB 533	Social Studies and the Arts Curriculum Pedagogy	4
EELB 540B	Supervised Student Teaching in Multiple Subject II	6
Total Units		16

## Bachelor of Arts in Liberal Studies - Spanish Studies Track

### Requirements (178 units)

Total units required for graduation: 180

A multiple-subject credential candidate can pursue a Spanish Studies track within the liberal studies major. This track is especially designed for those students interested in teaching English as a second language to children whose first language is Spanish. This track also prepares students to work in a bilingual/Spanish classroom setting. See the general information provided under the General Track, items 1 to 6, which applies also to the Spanish Studies track.

#### Basic Program (178)

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	
Group J: Spanish Studies	21	
Total Units		178

### 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:		4
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: 4

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: \* 4

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	Children's 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 Civilizations 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	

**4. American Government (G.E.) (4)**

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: 5

ASTR 311	A Cosmic Perspective of Earth	
----------	-------------------------------	--

GEOG 311	The Dynamic Earth	
----------	-------------------	--

GEOG 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: 4

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: 3

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
---------	----------------------	---



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:		2
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:		6
---	--	---

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:		4
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:		4
-------------------------	--	---

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
---	--	---

### 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.)	4
---------	---	---

### 5. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)

SSCI 304	Contemporary Latin America	4
----------	----------------------------	---

Total Units		20
-------------	--	----

## 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
----------	---------------------------	---

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	4
SPAN 295	Intermediate Skills Assessment	1
SPAN 415	Comparative Linguistics: Spanish/English (Students must maintain a grade of "C" or above in this course.)	4

### 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	

ART 329	Chicano Art
FLAN 320	Masterpieces of Literature (when the topic is Spanish or Latin American Studies)
HIST 390	History of Modern Mexico
HIST 391	Chicano History
HIST 470	Modern Latin America
MUS 351	Latin American Music
<hr/>	
Total Units	21

## 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)

HIST 470	Modern Latin America	4
or HUM 335	The Origin and Contemporary Role of Latino Culture	
FLAN 103D	Language Study III: Portuguese	4
or SPAN 103	College Spanish III	

#### International experience (4)

HUM 576B-F	International Experience (for a total of 4 units)	4
------------	---	---

#### Integrative international seminar (4)

HUM 500A	Current Ideas and Issues in Latin America	4
or HUM 500B	Current Ideas and Issues in Latin America	

#### Electives (12)

Twelve units, with at least one course each from groups A, B, and C: 12

##### Group A. Social Sciences:

ANTH 306	Aztecs, Maya and their Predecessors
ANTH 307	Incas and their Predecessors
ANTH 324	Pre-Columbian Art *
ANTH 354	Cultures of Mexico and Central America
ANTH 356	Cultures of South America
ECON 540	Political Economy of Latin America
GEOG 322	United States and Mexico Border Issues
HIST 390	History of Modern Mexico
HIST 391	Chicano History
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
PSCI 352C	Minority Politics: Latino Politics
SOC 342	The Chicano Family
SOC 442	Chicano Social Stratification
SOC 525	Indian Nations and Native America
SOC 590	Seminar in Sociology
SSCI 304	Contemporary Latin America
Group B. Arts, Languages, Literature and Education:	
ART 324	Pre-Columbian Art *
ART 328	Mexican Art
ART 329	Chicano Art
EELB 512	Spanish Childrens Literature for the Bilingual Classroom
ENG 319	Studies in Literary Diversity
ENG 323	Chicano Literature
HUM 335	The Origin and Contemporary Role of Latino Culture
HUM 460	Cultural Studies
MUS 351	Latin American Music
SPAN 314	Advanced Conversation **
SPAN 316A	Spanish for the Professions: Communications **
SPAN 316B	Spanish for the Professions: Health Science **
SPAN 316C	Spanish for the Professions: Education **
SPAN 316D	Spanish for the Professions: Business **
SPAN 316E	Spanish for the Professions: Law Enforcement **
SPAN 412	Latin American Civilization **
SPAN 435	Chicano Literature in Spanish **
SPAN 440	Mexican Literature **
SPAN 442	Literature of the Southern Cone **
SPAN 516A-G	Seminar in Spanish American Literature, Culture or Film:
Group C. Business, Management, Communication, Health and Nutrition:	
COMM 365	Topics in Media Studies (when the topic is Media and Social Change in Latin America)
COMM 471	International Communication
COMM 593D	Communication Approaches to Area Studies: Latin America
HSCI 344	International Perspectives on Nutrition
HSCI 359	Global Health
HSCI 385	Food and Culture: Traditions and Trends
MGMT 405	Managing Across Borders
MGMT 407	Comparative Management Systems of the Americas
MKTG 470	International Marketing Management
<hr/>	
Total Units	28

\* **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.

## **Foreign Language Requirement for Spanish or Portuguese**

The following rules apply to challenging a language course for credit in this minor:

1. Only courses at the 103-level or higher may be challenged.
2. Students whose language of instruction in secondary school was Spanish or Portuguese may satisfy this category by submitting official academic transcripts showing that either language was, indeed, the medium of instruction in the school from which they graduated.
3. Providing documentation of significant foreign language experience such as the successful completion of two years of Peace Corps experience in a Spanish- or Portuguese-speaking country.

## 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
- Information Systems and Technology

Information Systems and Technology (Admission is contingent on final approval of the program by the CSU Chancellor's Office)

### 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
- Information Systems Management
- Supply Chain Management

### Master of Business Administration

- Accredited by AACSB International, the Association to Advance Collegiate Schools of Business
- with focus areas in:
  - Accounting
  - Business Intelligence and Information Technology
  - Cyber Security
  - Entrepreneurship
  - Finance
  - Management
  - Marketing Management
  - Supply Chain Management
- with options in:
  - Executives
  - 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

- 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. 43), 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:

- At least four courses in the concentration are completed at this university;
- A minimum grade point average of 3.5 for all courses satisfying the requirements for the major;
- One of the following:
  - A minimum grade point average of 3.8 for all courses satisfying the requirements of the concentration;
  - A grade of "A" (4.0) in a specific College of Business and Public Administration 595. Independent Study course, developed for honors consideration;
  - Author or coauthor an article accepted for publication in a leading scholarly journal in their field.

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

## CBPA Honors Program

### Requirements for the CBPA Honors Program (24 units)

- A 3.5 grade point average in all coursework;
- Student must be an Administration major;

- Junior status;
- 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

- MGMT 490 Strategic Management Strategic Management

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

## Beta Alpha Psi

Founded in 1919, Beta Alpha Psi is a national scholastic and professional accounting fraternity. The primary objective of the fraternity is to encourage and give recognition to scholastic and professional excellence in the field of accounting. This includes promoting the study and practice of accounting; providing opportunities for self-development and association among members and practicing accountants; and encouraging a sense of ethical, social and public responsibility. The letters Beta, Alpha and Psi denote Scholarship, Social Responsibility and Practicality, respectively.

## Beta Gamma Sigma

The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

## Emeritus

Margaret K. Gibbs, Professor

## Undergraduate Degrees

### Bachelor of Arts in Administration with concentrations in:

- Accounting Concentration (p. 361)
- Entrepreneurial Management Concentration (p. 361)
- Finance Concentration (p. 362)
- Financial Planning Concentration (p. 363)
- Human Resource Management Concentration (p. 363)
- Information Systems and Technology Concentration (p. 364)
- International Business Concentration (p. 365)
- Management Concentration (p. 366)
- Marketing Concentration (p. 367)
- Public Administration Concentration (p. 368)
- Real Estate Concentration (p. 369)
- Sports and Entertainment Marketing Concentration (p. 369)

- Supply Chain and Transportation Management Concentration (p. 370)

## Bachelor of Science in Administration with a concentration in:

- Cyber Security Concentration (p. 371)
- Information (p. 371) Systems and Technology (p. 371)

## Graduate Degrees

Master of Business Administration (p. 409)

- with focus areas in:
  - Accounting
  - Business Intelligence and Information Technology
  - Cyber Security
  - Entrepreneurship
  - Finance
  - Global Supply Chain Management
  - Management
  - Marketing Management
- with options in:
  - Executives (p. 412)
  - Professionals (p. 412)

## Minors

- Minor in Accounting (p. 413)
- Minor in Business Administration (p. 413)
- Minor in Business Information Mapping (p. 413)
- Minor in Entrepreneurship (p. 413)
- Minor in Finance (p. 413)
- Minor in Human Resources Management (p. 414)
- Minor in Information Systems and Technology (p. 414)
- Minor in International Business (p. 414)
- Minor in Management (p. 414)
- Minor in Marketing (p. 415)
- Minor in Public Administration (p. 415)
- Minor in Real Estate (p. 415)
- Minor in Sports and Entertainment Marketing (p. 415)
- Minor in Supply Chain Management (p. 415)

## Certificates

- Accounting (p. 372)
- Cyber Security (p. 372)
- Information Systems Management (p. 373)
- Supply Chain Management (p. 373)

## 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 core 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
MGMT/PSYC 302	Management and Organizational Behavior	4
MGMT 350	Administrative Communications	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.

### Accounting Concentration (30-32 units)

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 374	Reporting Issues in Intermediate Accounting	4
ACCT 426	Introduction to Taxation	4
ACCT 440	Financial Statement Auditing	4
Two or more units to be chosen from the following in consultation with 2-4 advisor:		
ACCT 442	Internal and Operational Auditing	
ACCT 468	Accounting for Government and Not-for-Profit Organizations	
ACCT 536	Corporate and Partnership Taxation	
ACCT 539	Advanced Accounting	
ACCT 541	EDP Auditing and Control	
ACCT 544	Accounting Law, Ethics and Institutions	
ACCT 547	Cost Accounting	
ACCT 556	Estates and Gifts and other Specialized	
ACCT 575	Internship	
ACCT 595B	Independent Study	
ACCT 595D	Independent Study	
FIN 355	Business and Asian Culture	

Total Units 30-32

## 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 core 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
MGMT/PSYC 302	Management and Organizational Behavior	4
MGMT 350	Administrative Communications	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 (24 units)**

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:		8
FIN 420	Entrepreneurial Finance	
MGMT 442	Small Business Management	
MGMT 455	Human Resources Management	
MGMT 515	Business Consulting	
MGMT 541	Commercializing Entrepreneurial Innovation	
MGMT 547	Managing a Growing Business	
MGMT 575	Internship	
MKTG 430	Professional Selling and Sales Management	
MKTG 460	Retailing	
MGMT 998	Baccalaureate Reflective Essay	0
Total Units		24

**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 core 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):		4
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 350	Administrative Communications	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 (24 units)**

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	
Four units chosen from:		4
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 Economics	
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 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		24

## 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 core 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):		4
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 350	Administrative Communications	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:		8
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

#### 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 core 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	
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 350	Administrative Communications	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.

### Human Resource Management Concentration (24 units)

MGMT 455	Human Resources Management	4
MGMT 456	Developing an Effective Workforce	4
MGMT 458	Fair Employment Practices	4
MGMT 460	Compensation and Performance	4

Eight units chosen from: 8

HSCI 436	Human Resources Management in Health Care	
MGMT 405	Managing Across Borders	
MGMT 452	Leading Effectively and Ethically	
MGMT 457	Industrial and Labor Relations	
MGMT 459	Work Group Management	
MGMT 470	Strategic Human Resource Management	
MGMT 575	Internship	
PA 462	Public Personnel Administration	
PSYC 355	Industrial Psychology	
MGMT 998	Baccalaureate Reflective Essay	0

Total Units 24

**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 core 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
MGMT/PSYC 302	Management and Organizational Behavior	4
MGMT 350	Administrative Communications	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.

## Information Systems and Technology Concentration (24 units)

Eight units of electives chosen from any 100- or 200-level IST courses.	8
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.	4
<b>Total Units</b>	<b>24</b>

## 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 core 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):	4
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 350 Administrative Communications	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.

### 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.

MGMT 405 Managing Across Borders	4
Eight units chosen from (courses cannot double count in the specialty):	8
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. *	8
MGMT 998 Baccalaureate Reflective Essay	0
Twelve units chosen from one of the following three specialties:	12
<b>Total Units</b>	<b>32</b>

\* 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 core 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):		4

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 350	Administrative Communications	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.

## Management Concentration (24 units)

MGMT 335	Business, Ethics, and Society	4
MGMT 405	Managing Across Borders	4
MGMT 455	Human Resources Management	4
Twelve units chosen from:		12
MGMT 402	Studies in Organizational Behavior	
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		24

**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 core 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):		4

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 350	Administrative Communications	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.

**Marketing Concentration (24 units)**

MKTG 410	Consumer Behavior	4
MKTG 416	Marketing Research	4
MKTG 436	Marketing Decision-Making	4
MKTG 496	Marketing Planning and Strategy	4
MKTG 420	Advertising	4
or MKTG 430	Professional Selling and Sales Management	
Four units of 400- or 500-level MKTG courses chosen from:		4
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	
MKTG 575D	Internship	
MKTG 590	Seminar in Marketing	
MKTG 595D	Independent Study	
Total Units		24

**B.A. in Administration Public Administration 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 core 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):		4
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 350	Administrative Communications	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.

**Public Administration Concentration (24 units)**

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: 8

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		24

## 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 core 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):		4
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 350	Administrative Communications	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)

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:		4
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	
FIN 435	Investment Analysis	
FIN 445	Financial Analysis and Decision-Making	
FIN 460	Retirement Planning	
FIN 481	Real Estate Practice (if not taken previously)	
FIN 482	Real Estate Development	
FIN 485	Legal Aspects of Real Estate (if not taken previously)	
FIN 523	Security Trading and Analysis	
FIN 546	Student Managed Investment Fund	
FIN 575	Internship	
MKTG 430	Professional Selling and Sales Management	
Total Units		24

## 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 core 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):		4
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 350	Administrative Communications	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.

**Sports and Entertainment Marketing Concentration (24 units)**

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

Twelve units chosen from: 12

MKTG 410	Consumer Behavior	
MKTG 416	Marketing Research	
MKTG 420	Advertising	
MKTG 430	Professional Selling and Sales Management	
May choose only one of the following two courses for a total of four units toward the degree:		
MKTG 575D	Internship	
or MKTG 590	Seminar in Marketing	

Total Units 24

**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 core 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
MGMT/PSYC 302	Management and Organizational Behavior	4
MGMT 350	Administrative Communications	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 (24 units)

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		24

## B.S. in Administration Information Systems and Technology Concentration

### B.S. in Administration

#### Requirements (112 units)

Total units required for graduation: 186

#### 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 core 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 350	Administrative Communications	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.

## Information Systems and Technology Concentration (44 units)

IST 274	Data Base Management and Policies	4
IST 275	Information Networking and Security	4
IST 372	Information Technology	4
IST 378	Problem Solving and Risk Management	4
IST 490	Information Systems Planning and Policy	4

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). 24

Total Units 44

## Bachelor of Science in Administration Cyber Security Concentration

### B.S. in Administration

#### Requirements (112 units)

Total units required for graduation: 186

#### 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 core 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	
<b>Upper-division core requirements (36)</b>		
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 350	Administrative Communications	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
<b>Concentration (44)</b>		
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.		
<b>Cyber Security Concentration (44 units)</b>		
Note: GE A4 Critical Thinking and GE D4 Discipline Perspectives will be waived for students pursuing the Cyber Security concentration.		
IST 215	Cyber Security	4
IST 276	Systems Analysis and Design	4
IST 372	Information Technology	4
IST 378	Problem Solving and Risk Management	4
IST 415	Security Systems Management	4
IST 474	Advanced Data Base Management and Information Assurance	4
IST 475	Advanced Information Networking and Security	4
IST 490	Information Systems Planning and Policy	4
IST 511	Cyber Defense	4
Eight units chosen from any IST or CSE major courses, HSCI 437, or CJUS 550.		8
Total Units		44

## 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

ACCT 211	Introductory Accounting I *	4
ACCT 212	Introductory Accounting II *	4
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
Four units chosen in consultation with an advisor from:		4
ACCT 374	Reporting Issues in Intermediate Accounting	
ACCT 442	Internal and Operational Auditing	
ACCT 468	Accounting for Government and Not-for-Profit Organizations	
ACCT 536	Corporate and Partnership Taxation	
ACCT 539	Advanced Accounting	
ACCT 541	EDP Auditing and Control	
ACCT 544	Accounting Law, Ethics and Institutions	
ACCT 556	Estates and Gifts and other Specialized	
ACCT 590	Seminar in Accounting	
Total Units		36

\* Note: Students may substitute the following course for ACCT 211 and ACCT 212: ACCT 503

## 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

IST 101	Introduction to Information Technology	4
IST 215	Cyber Security	4
IST 309	Information Systems and Technology	4
IST 415	Security Systems Management	4
IST 490	Information Systems Planning and Policy	4
IST 511	Cyber Defense	4
Total Units		24

## Certificate in Information Systems 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)

IST 101	Introduction to Information Technology	4
Twelve units chosen from any IST 100- and 200-level courses.		12

### Upper-division requirements (16)

IST 309	Information Systems and Technology	4
Twelve units chosen from any IST 300-, 400- and 500-level courses		12
Total Units		32

## 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

ADMN 210	Applied Business Statistics	4
SCM 304	Principles of Supply Chain Management	4
SCM 305	Enterprise Resource Planning	4
SCM 350	Decision Making in Supply Chain and Transportation Management	4
SCM 470	Supply Chain Management	4
SCM 480	Quality Management	4
SCM 490	Logistics Strategy	4
SCM 505	Advanced Enterprise Resource Planning	4
Total Units		32

## Department of Accounting and Finance

### Department of Accounting and Finance

Jack Brown Hall, Room 459

(909) 537-5704 Department of Accounting and Finance website (<https://accountingfinance.csusb.edu>)

The university offers concentrations in accounting within the Bachelor of Arts in Administration (p. 361), the Master of Science in Accountancy (p. 375), and the Master of Business Administration (p. 409). A Certificate in Accounting (p. 372) 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 Louviain

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

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-Champaign

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

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  
Ph.D. 2002, University of Massachusetts

### Emeriti

Gene L. Andrusco, Associate Professor

Frank Benson, Professor

Cynthia Bird, Professor

Linvol Henry, Professor

Rauf A. Khan, Professor

Barry Knight, Professor

Eldon Lewis, Professor

Richard Lillie, Associate Professor

Steven Mintz, Professor

Gordon Patzer, Professor

David Schalow, Professor

John Scribner, Professor

Kenneth Thygerson, Professor

Michael Trubnick, Associate Professor

Mohamad T. Vaziri, Professor

Michael Weiss, Professor

L. Curtis Westbrook, Jr., Professor

## Graduate Degrees

- Accountancy (p. 382)
- Accountancy 3:2 Program Option (p. 383)

## Accounting Courses

### ACCT 211. Introductory Accounting I. 4 Units.

Fundamentals of recording, analyzing, and communicating financial information including income determination, assets and liability relationships and preparation of financial statements.

### ACCT 212. Introductory Accounting II. 4 Units.

Prerequisites: ACCT 211

Continuation of Introductory Accounting I with emphasis on interpretation and uses of financial data for decision-making including cost analysis, budgeting, and control. Includes study of the statement of cash flows and long-term debt.

### 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 374. 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 574.

### 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 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 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 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 or 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 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 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.

**FIN 445. Financial Analysis and Decision-Making. 4 Units.**

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 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.**

Practical approach to doing business with Asian countries and communities by introducing their historical, cultural, and business contexts. Topics also include the historical experiences and cultural contributions of Asian Americans to American society, and international business practices including documentation, customs clearance procedures, shipping, the methods and instruments of payment, and international commercial terms. (Also offered as FIN 355. Students may not receive credit for both.)

**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.**

Prerequisites: FIN 602 or consent of instructor

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.

**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:  $(\text{GPA} \times 200) + \text{GMAT score} > \text{or} = 1,050$ , 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
Equivalent courses:		
ACCT 211	Introductory Accounting I	
ACCT 212	Introductory Accounting II	
ECON 503	Economic Analysis	4
Equivalent courses:		
ECON 200	Principles of Microeconomics	
ECON 202	Principles of Macroeconomics	
FIN 503	Financial Management Concepts	4
Equivalent courses:		
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 374	Reporting Issues in Intermediate Accounting	4
ACCT 426	Introduction to Taxation	4
ACCT 440	Financial Statement Auditing	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)

ACCT 610	Financial Reporting and Disclosure	4
ACCT 615	Controllership	4

ACCT 620	Internal Auditing and Management Controls	4
ACCT 629	Seminar in Tax and Business Decisions	4
ACCT 642	International Accounting	4
Culminating Experience:		
ACCT 697	MSA Project	4
Minimum of 24 elective units chosen from list below in consultation with the MSA coordinator or department chair.		24
Total Units		48

## Professional Accounting Option Electives

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

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)

ACCT 610	Financial Reporting and Disclosure	4
ACCT 615	Controllershship	4
ACCT 620	Internal Auditing and Management Controls	4
ACCT 629	Seminar in Tax and Business Decisions	4
ACCT 642	International Accounting	4
Culminating Experience:		
ACCT 697	MSA Project	4
Minimum of 24 elective units chosen from list below 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 MAS Coordinator or department chair. These students must complete additional units of graduate work approved by the MSA Coordinator or department chair.

## Professional Accounting Option Electives

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

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. 356), the Bachelor of Science in Administration (p. 356) and the Master of Business Administration (p. 357). 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

Bachelor Of Science in Information Systems and Technology (p. 392)  
(Admission is contingent on final approval of the program by the CSU  
Chancellor's Office)

with options in:

- Computer Information Systems
- Cyber Security and Intelligence

## 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 215. Cyber Security. 4 Units.

Prerequisites: IST 101 or consent of instructor  
Study in information assurance and systems security for information systems professionals. Creates a sensitivity to the threats and vulnerabilities to information systems, recognition of the need to protect data, and information for processing them. Topics include concepts of systems security, network infrastructure, access control, assessment and audits, cryptography and organizational security. Formerly IST 410.

### 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 practical 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 systems 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 forecasting, 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 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 data base concepts and skills including: data modeling, Structured Query Language (SQL), and client-server applications. Also covers Data Base System Administration issues: data certification/classification, life cycle, access control, and legal requirements. Students will create applications using an advanced data base program package.

**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 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).

### **IST 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).

### **IST 609. Information Systems and Technology Management. 4 Units.**

Advanced applications of computer and information systems in organizations. Topics include information management planning, information technologies, information assurance and security, risk assessment, resource allocation and information based management.

### **IST 610. Information Assurance Policy and Management. 4 Units.**

Information security from a system-wide perspective, beginning with a strategic planning process. Includes policies, procedures and functions necessary to organize and administer ongoing security functions in an organization. Topics include security practices, architecture and models, continuity planning and disaster recovery. Designed to incorporate the Committee for National Security Systems (CNSS) 4011 and 4012 standards.

### **IST 623. Entrepreneurial Information Management. 4 Units.**

Prerequisites: IST 609  
Explores the use of current personal computing technology upon entrepreneurial organizations and management. Topics will include e-commerce, web-based business strategies, commerce security and privacy, and computer software used by entrepreneurs.

### **IST 645. Information Systems Analysis and Design. 4 Units.**

Prerequisites: IST 609  
Managerial perspective of the methods used in the design and maintenance of computer based information systems. Issues in systems design, from project identification to implementation and maintenance, documentation standards, certification testing and system accreditation practices, copyright and legal issues will be presented. Tools and principles related to newer techniques such as joint application development and object oriented data base design.

**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 MSC1 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 organizations 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 organizations 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 690. Seminar in Supply Chain and Transportation Strategy. 4 Units.**

Capstone course on supply chain strategic planning, key strategic decisions, industrial and consumer supply chain cases, field trips to local companies, and discussions with professionals.

### **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.

# Bachelor of Science in Information Systems and Technology

**Admission is contingent on final approval of the program by the CSU Chancellor's Office**

## Requirements (92 units)

### Total units required for graduation (180)

#### Requirements for the B.S. in Information Systems and Technology

Students must earn a grade of C (2.0) or better in all lower-division, upper-division and option courses required to fulfill a B.S. in Information Systems and Technology

#### Lower-division requirements (36)

ADMN 210	Applied Business Statistics	4
IST 101	Introduction to Information Technology	4
IST 215	Cyber Security	4
IST 274	Data Base Management and Policies	4
IST 275	Information Networking and Security	4
IST 276	Systems Analysis and Design	4
IST 282	Business Systems I	4
MGMT 230	Business Law	4

Four units chosen from:		4
MATH 110	College Algebra	
MATH 120	Pre-Calculus Mathematics	
MATH 192	Methods of Calculus	
MATH 211	Basic Concepts of Calculus	
<b>Upper-division requirements (28)</b>		
IST 309	Information Systems and Technology	4
IST 372	Information Technology	4
IST 474	Advanced Data Base Management and Information Assurance	4
IST 475	Advanced Information Networking and Security	4
IST 490	Information Systems Planning and Policy	4
MGMT 302	Management and Organizational Behavior	4
SCM 515	Project Management	4
Total Units		64

## Option requirements (28 units)

Requirements for one of the following options must be satisfied:

#### Computer Information Systems Option (28)

ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4
FIN 313	Business Finance	4
MKTG 305	Marketing Principles	4
SCM 304	Principles of Supply Chain Management	4
SCM 305	Enterprise Resource Planning	4
At least four units chosen from:		4
IST 415	Security Systems Management	
IST 511	Cyber Defense	
SCM 505	Advanced Enterprise Resource Planning	
Total Units		28

#### Cyber Security Intelligence Option (28)

IST 415	Security Systems Management	4
IST 511	Cyber Defense	4
IST 525	Computer Forensics	4
PSCI 204	International Relations	4
PSCI 325	American Foreign Policy	4
PSCI 484	National Security Policy	4
PSCI 590	Seminar in International Relations	4
Total Units		28

## 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. 356) and the Master of Business Administration (p. 357). Concentrations are offered under the B.A. in Administration in Management (p. 366), Entrepreneurial Management (p. 361), Human Resource Management (p. 363), and International Business (p. 365). 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 opportunity for CSUSB students to study in a foreign country and earn full resident credit for these studies. Participation in this program will enhance the student's ability to study and work in an international business setting.

For students in management, International Programs are particularly useful in an increasingly competitive global environment where knowledge of diverse cultures, beliefs and societies is essential for success in business. By joining the California State University's International Programs (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

Breana 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

B.A. 1998, M.S.C. 2001, University College Cork

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

B.S. 2000, University of International Business and 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

Ph.D. 2006, University of La Verne

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 Loutzenhiser, 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 460. Compensation and Performance. 4 Units.**

An examination of reward systems, both financial and non-financial, in the business enterprise. Financial rewards include the process of job analysis, job evaluation, and the market surveys with an emphasis on the firm's competitive strategy. Benefit administration and compensation systems for special groups are also presented. Various systems of performance management are studied, including individual employee performance appraisals.

**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, performing 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. 356) and the Master of Business Administration

(p. 357). 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).

## **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  
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 Boorum, 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

## Department of Public Administration

Jack Brown Hall, Room 456  
(909) 537-5758 Department of Public Administration website (<http://pa.csusb.edu>)

The university offers a Bachelor of Arts in Public Administration with a concentration in public administration (p. 368). Students may also earn a Bachelor of Arts in Administration with a minor in public administration in addition to their major concentration in another program. Please consult the Department of Public Administration website (<http://pa.csusb.edu>) for details.

The university offers a Master of Public Administration degree. Please consult the MPA Program website (<http://mpa.csusb.edu>) for details.

### 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  
B.A. 1971, M.P.A. 1974, San Diego State University  
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. 407) with concentrations in:
  - Cyber Security
  - Leadership
  - Public Financial Management

### 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 ADMN 210  
Purposes and methods of program evaluation in public and nonprofit organizations. Topics include selection of programs for evaluation, delineation of frame of reference, gathering of information, techniques of reporting, data analysis, comparative approaches of evaluation and ethical issues.

### **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 or ADMN 210	Introductory Statistics and Hypothesis Testing Applied Business Statistics	4
PA 575	Internship (May be waived dependent upon related work experience.)	4



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. Successful completion of the required core and elective courses as outlined in the curriculum section;
3. 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;
4. Successful completion of an integrative comprehensive examination. Students with a grade point average below 3.0 ("B") will not be permitted to take the examination. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the examination. Students who do not receive a passing grade may 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, have completed their core classes, 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.

5. 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)

PA 603	Research Methods in Administration	4
PA 611	Public Administration Theory and Practice	4
PA 615	Public Financial Management	4
PA 650	Public Management Information Systems	4
PA 662	Human Resource Management in the Public Sector	4
PA 663	Public Budgeting and Finance	4
PA 664	Management of Public Organizations	4
PA 672	Administrative Regulation	4
PA 680	Public Policy Analysis	4
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. At least four units must be taken from 600-level courses.

PA 999	Comprehensive Examination (Students must successfully complete the first 8 courses in order to register for the comprehensive examination.)
--------	---

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.

PA 695	Graduate Research Project	
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 (56 units)

### Degree Requirements (56)

PA 603	Research Methods in Administration	4
PA 611	Public Administration Theory and Practice	4
PA 615	Public Financial Management	4
PA 650	Public Management Information Systems	4
PA 662	Human Resource Management in the Public Sector	4
PA 663	Public Budgeting and Finance	4
PA 664	Management of Public Organizations	4
PA 672	Administrative Regulation	4
PA 680	Public Policy Analysis	4
IST 511	Cyber Defense	4
IST 610	Information Assurance Policy and Management	4
IST 646	Information Systems Planning, Strategy and Policy	4
IST 647	Information Based Management	4
IST 648	Information Networking Systems and Security	4
PA 999	Comprehensive Examination (Students must successfully complete the first 8 courses in order to register for the comprehensive examination.)	0
Total Units		56

## Comprehensive Examination Option: Leadership Concentration (48 units)

PA 501	Administrative Leadership	4
PA 603	Research Methods in Administration	4
PA 611	Public Administration Theory and Practice	4
PA 615	Public Financial Management	4
PA 650	Public Management Information Systems	4
PA 662	Human Resource Management in the Public Sector	4
PA 663	Public Budgeting and Finance	4
PA 664	Management of Public Organizations	4
PA 672	Administrative Regulation	4
PA 680	Public Policy Analysis	4
Eight units selected from:		8
PA 514	Management of Private Nonprofit Organizations	
PA 516	Public and Non-Profit Project Management	
PA 564	Local Public Administration	
PA 590	Seminar in Public Administration (topic related to leadership and approved by MPA Coordinator)	
PA 619	Diversity and Public Organizations	
PA 628	Intergovernmental Administration	
PA 999	Comprehensive Examination (Students must successfully complete the first 8 courses in order to register for the comprehensive examination)	0
Total Units		48

## Comprehensive Examination Option: Public Financial Management Concentration (48 units)

PA 603	Research Methods in Administration	4
PA 611	Public Administration Theory and Practice	4
PA 615	Public Financial Management	4
PA 617	Management of Local Economic Development	4
or PA 630	Program Evaluation	
PA 650	Public Management Information Systems	4
PA 662	Human Resource Management in the Public Sector	4
PA 663	Public Budgeting and Finance	4
PA 664	Management of Public Organizations	4
PA 672	Administrative Regulation	4
PA 680	Public Policy Analysis	4
Two additional courses selected from:		8
PA 557	Public Sector Labor Relations	
PA 568	Accounting for Government and Not-for-Profit Organizations	
PA 617	Management of Local Economic Development	
PA 630	Program Evaluation	
PA 661	Principles of Public Procurement	
PA 690	Advanced Topics in Public Administration (Financially oriented and approved by the MPA Coordinator)	
FIN 602	Financial Theory and Corporate Finance	
PA 999	Comprehensive Examination (Students must successfully complete the first 9 courses in order to register for the comprehensive examination)	0
Total Units		48

## Master of Business Administration

### Requirements (60 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. It is open to all qualified students regardless of undergraduate major. The degree program has three options:

**MBA (60 units):** For qualified applicants seeking to develop in-depth, graduate-level knowledge in one or more specialized business areas.

**MBA - Professionals Option (48 units):** For qualified applicants possessing early- or mid-career experience who seek to expand their professional knowledge and skills through graduate business education.

**MBA - Executives Option (48 units):** For senior-level managers or executives who seek advanced business instruction to help them become more effective decision makers.

## Admission to the M.B.A. Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

- Bachelor's Degree:** A bachelor's degree from an accredited college or university, with required minimum GPA of 3.0 calculated using the entire degree or the last 90 quarter (60 semester) units, which may include post baccalaureate work;
- Work Experience Requirement for Professionals and Executives Options:** Minimum five years substantive work experience as indicated above for "Professionals" and "Executives" (There is no work experience requirement for the MBA). Given the substantive work experience requirement in the Professionals and Executives options, students are permitted to join with a GPA of 2.5 calculated using the entire degree or the last 90 quarter (60 semester) units, which will include post baccalaureate work;
- Personal Statement:** Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the MBA at California State University, San Bernardino, and personal qualifications that will contribute to successful completion of the program;
- English Proficiency for International Students:** 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 also achieve an acceptable score, as determined by the MBA committee, ratified by the College Curriculum Committee, and in alignment with the Office of Graduate Studies requirements on the Test of English as a Foreign Language (TOEFL), the IELTS exam or complete CSUSB's ESL program. The current minimum acceptable TOEFL score is 550/PBT, 213/CBT, 79-80/IBT taken within the past two years; IELTS score of 6.5 taken within the past two years; or complete level 6 of CSUSB's Intensive English Program;
- Resume:** Submission of a current resume;
- Letters of Recommendation:** Three letters of recommendation are optional, but can enhance an application. There is no official format;
- Business Aptitude Requirement (Graduate Management Aptitude Test (GMAT) or Graduate Record Exam (GRE):** Applicants for MBA and Professionals Option must meet the Business Aptitude Requirement or its waiver conditions (does not apply to Executives Option):
  - Submission of an acceptable score on the Graduate Management Aptitude Test (GMAT) or Graduate Record Exam (GRE) as determined by the MBA committee, ratified by the College Curriculum Committee, and conforming with Office of Graduate Studies requirements. The current acceptable GMAT or GRE score must meet a minimum GMAT score of 470 (minimum 10% on GMAT Verbal Ability and Quantitative Ability percentile rankings) or a minimum GRE score of 298 (minimum 10% on GRE Verbal Ability and Quantitative Ability percentile rankings). In addition, students with 2.5 or above GPA calculated using the entire degree or the last 90 quarter (60 semester) units, which will include post baccalaureate work, are admitted if one of the following equations and conditions are met:
    - $(\text{GPA} \times 200) + \text{GMAT score}$  greater than or equal to 1,050 points; or
    - $(\text{GPA} \times 24) + \text{GRE score}$  greater than or equal to 368 points.
  - Business Aptitude Requirement may be waived with one or both of the following:

- Proof of completion of graduate work (e.g. J.D., Ph.D., M.D. from an accredited college or university with a minimum GPA of 3.0 in the graduate program;
- Professional Track only: Minimum five years managerial experience, 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."

## Advancement to Candidacy

To be advanced to candidacy, a student must have:

- Achieved classified standing. Successfully completing the Foundation courses (ADMN 601 and ADMN 602);
- Submitted 'an approved graduate program' form, before completing 20 quarter units toward the degree (with a minimum grade point average of 3.0);
- Completed an approved graduate program plan in consultation with the Graduate coordinator in charge of the MBA program after achieving conditionally classified or classified status;
- Secured approval of the Graduate director in charge of the MBA program.

## Requirements for Graduation

- 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;
- After advancement to candidacy, students must complete ADMN 691, an experiential course integrating the MBA core, in addition to what may be required by their focus area (e.g. thesis, project or comprehensive exam);
- Successful completion of ADMN 691 meets the culminating experience requirement and successful completion (a grade of B, 3.0, or better) in ADMN 602 meets the graduate writing requirement;
- Students are expected to complete online MBA Business Boot Camp before the start of their second quarter, unless later completion is approved by the MBA program. Prior to enrolling in each Essential class and Advancement to Candidacy, students are required to complete the associated MBA Boot Camp module;
- Successful completion of Foundation, Essential, and Elective/ Focus Area classes as shown in the "Degree Requirements";
- No more than 8 quarter units of lower than 600-level course work;
- No fewer than 40 quarter units of credit taken after advancement to candidacy for the degree for the MBA. No fewer than 34 units for Professional and Executive tracks;
- Successful completion of ADMN 995 (MBA Portfolio) which includes preparation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates accomplishment of essential goals for the program. Students register for this 0-unit course after advancement to candidacy, completion of 32 units of coursework, and are eligible for ADMN 691;

9. A minimum of 48 quarter units (for the Professional and the Executive Options or 60 quarter units for the MBA) of acceptable graduate-level work, consistent with the program plan (with a minimum GPA of 3.0);
10. At least 70% of the units for the degree completed at California State University at San Bernardino;
11. Any additional general requirements not cited above and listed in Graduate Degree Program Requirements.

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.

Students wishing to change from one option to another must reapply to the desired option, meeting all admission requirements.

## Degree Requirements for the Master of Business Administration (60 units)

### Foundation (8)

ADMN 601	Data-Driven Decision Making	4
ADMN 602	Advanced Managerial Communications	4

### Essentials (32)

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
ADMN 691	Culminating Business Analyst Project	4

### Portfolio Requirement (0)

ADMN 995	MBA Portfolio	0
----------	---------------	---

### Focus Area (20)

Twenty units from one of the following focus areas, chosen in consultation with an advisor. 20

Total Units		60
-------------	--	----

## Accounting Focus

ACCT 610	Financial Reporting and Disclosure	4
ACCT 615	Controllership	4
ACCT 620	Internal Auditing and Management Controls	4

Four units chosen from: 4

ACCT 625	Seminar in Accounting Information Systems	
ACCT 629	Seminar in Tax and Business Decisions	
ACCT 642	International Accounting	
ADMN 580A-E	Doing Business Internationally	
FIN 555	Trade and Business in Asia	

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. 4

Total Units		20
-------------	--	----

## Business Intelligence and Information Technology Focus

IST 645	Information Systems Analysis and Design	4
IST 646	Information Systems Planning, Strategy and Policy	4
IST 647	Information Based Management	4
IST 650	Information Decision Systems	4
Four units chosen from:		4
IST 648	Information Networking Systems and Security	
IST 670	Business Geographical Information Systems Strategies	
SCM 505	Advanced Enterprise Resource Planning	
or IST 505	Advanced Enterprise Resource Planning	
MKTG 640	Advanced Marketing Research	
Total Units		20

## Cyber Security Focus

IST 511	Cyber Defense	4
IST 610	Information Assurance Policy and Management	4
IST 646	Information Systems Planning, Strategy and Policy	4
IST 647	Information Based Management	4
IST 648	Information Networking Systems and Security	4
Total Units		20

## Entrepreneurship Focus

MGMT 621	Entrepreneurship and New Ventures	4
MGMT 623	Piloting the New Venture	4
MGMT 625	New Venture Planning and Strategy	4
Eight units chosen from:		8
FIN 622	Entrepreneurial and Venture Finance	
IST 623	Entrepreneurial Information Management	
MGMT 545	New Venture Resource Requirements	
MGMT 547	Managing a Growing Business	
MGMT 620	Business Law for Entrepreneurs	
MKTG 624	Marketing for Entrepreneurs	
Total Units		20

## Finance Focus

Finance Focus Area requires students to successfully pass ADMN 999 Comprehensive Exam (0 unit) for graduation. Before taking ADMN 999, students are required to finish FIN 651, FIN 653, FIN 654, and FIN 680.

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
ADMN 999	Comprehensive Examination	0
Four units chosen from:		4
FIN 523	Security Trading and Analysis	
FIN 527	Financial Derivatives	
FIN 546	Student Managed Investment Fund	
FIN 555	Trade and Business in Asia	
FIN 585	Real Estate Finance	

FIN 622	Entrepreneurial and Venture Finance	
FIN 655	Management of Financial Institutions	
FIN 675	Internship	
FIN 690	Advanced Topics in Finance	
IST 646	Information Systems Planning, Strategy and Policy	
Total Units		20

### Global Supply Chain Management Focus

SCM 515	Project Management	4
SCM 611	Global Supply Chain Management and Logistics	4
SCM 660	Transportation and Supply Chain Management	4
SCM 690	Seminar in Supply Chain and Transportation Strategy	4
Four units chosen from:		4
SCM 590	Seminar in Supply Chain Management	
SCM 614	Advanced Quality Management	
SCM 650	Information Decision Systems	
MGMT 626	International New Venture Development	
MGMT 650	Managing and Leading Global Business	
MKTG 696	Marketing Strategy	
Total Units		20

### Management Focus

Twenty units chosen from:		20
ADMN 580A-E	Doing Business Internationally	
MGMT 641	Managing Human Resources	
MGMT 642	Communication and Interpersonal Processes	
MGMT 644	Industrial Relations	
MGMT 645	Negotiation and Bargaining	
MGMT 650	Managing and Leading Global Business	
MGMT 655	Leadership for Modern Organizations	
MGMT 660	Managing Teams in the Workplace	
MGMT 690	Advanced Topics in Management	
COMM 522	Mediation Theory and Practice	
Total Units		20

### Marketing Management Focus

MKTG 610	Consumer and Organizational Buying Behavior	4
MKTG 620	Advertising Management	4
MKTG 640	Advanced Marketing Research	4
MKTG 696	Marketing Strategy	4
Four units from 500- or 600-level courses chosen in consultation with an advisor.		4
Total Units		20

## Master of Business Administration - Executives Option

### Degree Requirements (48 units)

#### Foundation (8)

ADMN 601	Data-Driven Decision Making	4
ADMN 602	Advanced Managerial Communications	4

#### Essentials (32)

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
ADMN 691	Culminating Business Analyst Project	4
ADMN 995	MBA Portfolio	0

#### Electives (8)

Eight units from any focus area, chosen in consultation with an academic advisor.		8
---	--	---

Total Units		48
-------------	--	----

## Master of Business Administration - Professionals Option

### Degree Requirements (48 units)

#### Foundation (8)

ADMN 601	Data-Driven Decision Making	4
ADMN 602	Advanced Managerial Communications	4

#### Essentials (32)

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
ADMN 691	Culminating Business Analyst Project	4
ADMN 995	MBA Portfolio	0

#### Electives (8)

Eight units from any of the focus areas chosen in consultation with an academic advisor.		8
--	--	---

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.

## Minor in Accounting

### Requirements (28 units)

### Requirements for a minor in Accounting

#### Lower-division requirements (8)

ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4

#### Upper-division requirements (20)

ACCT 372	Intermediate Accounting	4
Sixteen units chosen from:		16
ACCT 315	Accounting Information Systems	
ACCT 347	Management Accounting and Decision	
ACCT 373	Problem Areas in Intermediate Accounting	
ACCT 374	Reporting Issues in Intermediate Accounting	
ACCT 426	Introduction to Taxation	
ACCT 440	Financial Statement Auditing	
ACCT 442	Internal and Operational Auditing	
ACCT 468	Accounting for Government and Not-for-Profit Organizations	
ACCT 536	Corporate and Partnership Taxation	
ACCT 539	Advanced Accounting	
ACCT 541	EDP Auditing and Control	
ACCT 544	Accounting Law, Ethics and Institutions	
ACCT 547	Cost Accounting	
ACCT 556	Estates and Gifts and other Specialized	
FIN 355	Business and Asian Culture	
Total Units		28

## Minor in Business Administration

### Requirements (28 units)

### Requirements for a minor in Business Administration

ACCT 211	Introductory Accounting I	4
MGMT 230	Business Law	4
Twenty units of which nine units must be upper-division, usually from one area (i.e., accounting, economics, finance, information management, management, marketing, or supply chain management), chosen in consultation with the associate dean. Twenty units of the minor must be completed at CSUSB.		20
Total Units		28

## Minor in Business Information Mapping

### Requirements (32 units)

### Requirements for a minor in Business Information Mapping

IST 101	Introduction to Information Technology	4
IST 280	Information Mapping and Data Visualization	4

IST 309	Information Systems and Technology	4
IST 480	Advanced Information Mapping and Visualization	4
Technical Area. Eight units chosen from:		8
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:		8
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

MGMT 442	Small Business Management	4
MGMT 547	Managing a Growing Business	4
MGMT 549	Launching the Entrepreneurial Venture	4
Twelve units chosen from:		12
MGMT 455	Human Resources Management	
MGMT 515	Business Consulting	
MGMT 541	Commercializing Entrepreneurial Innovation	
MGMT 543	New Venture Opportunity Analysis	
MGMT 545	New Venture Resource Requirements	
MGMT 575	Internship	
MKTG 460	Retailing	
MKTG 520	Integrated Marketing Communication	
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)

ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4

#### Upper-division requirements (16)

FIN 313	Business Finance	4
FIN 314	Corporate Financial Management	4
Eight units chosen from:		8

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	
Total Units		24

## Minor in Human Resources Management

### Requirements (24 units)

### Requirements for a minor in Human Resources Management

MGMT 302	Management and Organizational Behavior	4
MGMT 455	Human Resources Management	4
MGMT 456	Developing an Effective Workforce	4
MGMT 458	Fair Employment Practices	4
MGMT 460	Compensation and Performance	4
Four units chosen from:		4
HSCI 436	Human Resources Management in Health Care	
MGMT 405	Managing Across Borders	
MGMT 452	Leading Effectively and Ethically	
MGMT 457	Industrial and Labor Relations	
MGMT 459	Work Group Management	
MGMT 470	Strategic Human Resource Management	
MGMT 575	Internship	
PA 462	Public Personnel Administration	
PSYC 355	Industrial Psychology	
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)

IST 101	Introduction to Information Technology	4
Eight units chosen from any IST 100- and 200-level courses		8

#### Upper-division requirements (12)

IST 309	Information Systems and Technology	4
Eight units chosen from any IST 300-, 400- and 500-level courses.		8
Total Units		24

## Minor in International Business

### Requirements (28 units)

### Requirements for a minor in International Business

MGMT 302	Management and Organizational Behavior	4
MGMT 405	Managing Across Borders	4
MKTG 305	Marketing Principles	4
MKTG 470	International Marketing Management	4
Four units chosen from:		4
FIN 433	International Business Finance	
MGMT 406	International Business Law	
MGMT 526	Global Entrepreneurship	
SCM 445	International Logistics	
Four units chosen from:		4
ARAB 316	Arabic for the Professions	
ADMN 575	Internship (must have an international focus)	
ADMN 590C-D	Seminar in Administration (must involve international travel)	
FIN 355	Business and Asian Culture	
FREN 409	Business French	
GER 312	Business German	
SPAN 316D	Spanish for the Professions: Business	
Four units chosen from:		4
ANTH 341	Globalization and Culture	
COMM 304	Intercultural Communication	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 450	Global Economy	
HSCI 359	Global Health	
PSCI 540	Seminar in Comparative Politics	
PSCI 590	Seminar in International Relations	
SSCI 515	Model United Nations (application and entrance exam required)	
Total Units		28

## Minor in Management

### Requirements (28 units)

### Requirements for a minor in Management

#### Lower-division requirements (8)

MGMT 100	Introduction to Business and Public Administration	4
MGMT 230	Business Law	4

#### Upper-division requirements (20)

MGMT 302	Management and Organizational Behavior	4
MGMT 330	Legal Environment of Business	4
Twelve units chosen from any MGMT 300-, 400- and 500-level courses.		12

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

MKTG 305	Marketing Principles	4
MKTG 410	Consumer Behavior	4
Sixteen units chosen from:		16
MKTG 415	Product Management	
MKTG 416	Marketing Research	
MKTG 420	Advertising	
MKTG 430	Professional Selling and Sales Management	
MKTG 436	Marketing Decision-Making	
MKTG 446	Advertising Campaign	
MKTG 460	Retailing	
MKTG 470	International Marketing Management	
MKTG 496	Marketing Planning and Strategy	
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	
MKTG 575B-D	Internship in Marketing	
MKTG 590	Seminar in Marketing	
MKTG 595A-E	Independent Study	
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 Economics	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)

ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4

#### Upper-division requirements (20)

FIN 313	Business Finance	4
FIN 314	Corporate Financial Management	4
FIN 380	Principles of Real Estate	4

Eight units chosen from: 8

FIN 355	Business and Asian Culture	
FIN 432	Financial Institutions and Capital Formation	
FIN 480	Real Estate Appraisal	
FIN 481	Real Estate Practice	
FIN 485	Legal Aspects of Real Estate	
FIN 585	Real Estate Finance	

Total Units 28

## Minor in Sports and Entertainment Marketing

### Requirements (24 units)

### Requirements for a minor in 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

Twelve units chosen from: 12

MGMT 455	Human Resources Management	
MKTG 305	Marketing Principles	
MKTG 410	Consumer Behavior	
MKTG 416	Marketing Research	
MKTG 420	Advertising	
MKTG 430	Professional Selling and Sales Management	
MKTG 575B-D	Internship in Marketing	
MKTG 590	Seminar in Marketing	
PA 540	Introduction to Tribal Management and Governance	

Total Units 24

## Minor in Supply Chain Management

### Requirements (28 units)



## Requirements for a minor in Supply Chain Management

### Lower-division requirement (4)

ADMN 210	Applied Business Statistics	4
----------	-----------------------------	---

### Upper-division requirements (24)

SCM 304	Principles of Supply Chain Management	4
---------	---------------------------------------	---

SCM 305	Enterprise Resource Planning	4
---------	------------------------------	---

SCM 350	Decision Making in Supply Chain and Transportation Management	4
---------	--	---

SCM 470	Supply Chain Management	4
---------	-------------------------	---

SCM 480	Quality Management	4
---------	--------------------	---

SCM 490	Logistics Strategy	4
---------	--------------------	---

---

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 221  
 (909) 537-5600  
 College of Education website (<http://coe.csusb.edu>)

### Jim and Judy Watson COE Student Services

College of Education Building, Room 102, (909) 537-5609  
 Student Services website (<http://coe.csusb.edu/studentServices>)

### Teacher Education and Foundations

College of Education Building, Room 261, (909) 537-7405  
 Teacher Education and Foundations website (<http://coe.csusb.edu/departments/TEF>)

### Minor

- Education Minor website (<http://gendersexuality.csusb.edu>)
- Gender and Sexuality Studies Minor website (<http://gendersexuality.csusb.edu>)

### Certificate

- Education

### Certificate Programs

- Crosscultural, Language and Academic Development (CLAD)
- Gender and Sexuality Studies
- Holistic and Integrative Education
- Reading-Language Arts Certificate website (<http://coe.csusb.edu/programs/readingLangArts/readingCertificate.html>)

### Basic Credentials

- Multiple Subject website (<http://coe.csusb.edu/studentServices/teacherEducation/teachingPrograms/multipleSubject.html>)
- Single Subject website (<http://coe.csusb.edu/programs/singleSubject>)

### Specialist and Services Credentials

- Reading-Language Arts Credential website (<http://coe.csusb.edu/programs/readingLangArts/specialistCred.html>)
- Adapted Physical Education Credential website (<http://kine.csusb.edu/programInfo/documents/CSUSBAPECredentialGuideline-2.pdf>)

### Masters

- Correctional & Alternative Education/MA website (<http://coe.csusb.edu/programs/correctionalAltEd>)
- Education: STEM Education Option/MA website (<http://coe.csusb.edu/programs/mathScienceEd>)
- Holistic & Integrative Education/MA website (<http://coe.csusb.edu/programs/holisticIntegrativeEd>)
- Kinesiology

- Reading-Language Arts/MA website (<http://coe.csusb.edu/programs/readingLangArts/mastersDegree.html>)
- Science, Technology Engineering, Math Education (STEM)/MS
- Teaching English to Speakers of Other Languages (TESOL)/MA website (<http://coe.csusb.edu/programs/tesol>)

### Special Education, Rehabilitation and Counseling

College of Education Building, Room 243, (909) 537-5606  
 Special Education, Rehabilitation and Counseling website (<http://coe.csusb.edu/departments/SRC>)

### Certificate

- Special Education Certificate website (<http://coe.csusb.edu/programs/specialEducation>)

### Certificate Program

- Education of the Gifted and Talented

### Basic Credential

- Special Education Credential website (<http://coe.csusb.edu/programs/specialEducation/credentialStudent>)

### Specialist and Services Credentials

- Counseling and Guidance Credential website (<http://coe.csusb.edu/programs/counselingGuidance>)
- School Psychology Credential website (<http://coe.csusb.edu/programs/schoolPsychology/credential.html>)

### Masters

- Counseling and Guidance/MS website (<http://coe.csusb.edu/programs/counselingGuidance/MsCounselingGuidance.html>)
- Rehabilitation Counseling/MA website (<http://coe.csusb.edu/programs/rehabCounseling>)
- Special Education/MA website (<http://coe.csusb.edu/programs/specialEducation/mastersDegreeStudents>)

### Educational Leadership and Technology

College of Education Building, Room 374, (909) 537-7404  
 Educational Leadership and Technology website (<http://coe.csusb.edu/departments/elt>)

### Certificate Programs

- E-Learning
- Educational Technology
- School Business Management

### Basic Credential

Designated Subjects Teaching and Supervision and Coordination Credential website (<http://coe.csusb.edu/programs/careerTechnicalEd/teachingCredentials/supervisionCoordination.html>)

### Specialist and Services Credential

- Administrative Services Credentials website (<http://coe.csusb.edu/programs/edAdministration>)

## Bachelors

- Career and Technical Studies/BA and BS website (<http://coe.csusb.edu/programs/careerTechnicalEd/undergraduateDegrees>)

## Masters

- Career and Technical Studies/MA website (<http://coe.csusb.edu/programs/careerTechnicalEd/graduateDegrees/MACTS.html>)
- Instructional Technology/MA website (<http://coe.csusb.edu/programs/instructionalTechnology>)
- Administrative Services/MA website (<http://coe.csusb.edu/programs/edAdministration/MAedAdmin.html>)

## Doctoral Program

- Leadership in Educational Administration/EdD website (<http://coe.csusb.edu/programs/edAdministration>)

## Current Faculty

Robert Bailey, Lecturer

B.A. 1975, M.A. 1982, California State University, San Bernardino  
DED 1997, University of Laverne

Jay Fiene, Professor, Dean

B.M.E. 1983, M.M. 1990, Pittsburgh State  
Ph.D. 1995, University of Missouri-Columbia, Columbia

Jacqueline Hughes, Professor, Associate Provost for Academic Personnel  
Ph.D. 1996, Arizona State University

Brenda Littleton, Lecturer

B.A. 2001, M.A. 2005, California State University, San Bernardino

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

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

Donna Shea, Lecturer

B.A. 1998, M.A. 2000, California State University, San Bernardino

Doris Wilson, Associate Professor

B.S. 1964, Southwest Missouri State University  
M.S. 1971, Azusa Pacific College  
Ed.D. 1975, University of Southern California

Randall L. Wright, Professor

B.A. 1977, M.A. 1981, McGill University  
Ph.D. 2001, University of Calgary

## Emeriti

Susan J. Brotherton, Professor

Herbert K. Brunkhorst, Professor

Bonnie Brunkhorst, Professor

Katharine Busch, Associate Professor

Renate Caine, 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 Mullen, 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 Stine, Professor

Darleen K. Stoner, Professor

Elton N. Thompson, Professor

Arthur J. Townley, Professor

Steven R. Wagner, Associate Professor

Janet Woerner, Professor

Alvin Wolf, Professor

## 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 542A. 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 542B. 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 542C. 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 542D. 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 780. Special Topics in Educational Leadership. 4 Units.**

Prerequisites: completion of required courses, with the exception of Dissertation credits, or permission of the director

This is a variable topic course. Students are allowed to take this course two times for credit as topics change. Special topic in current issues is examined in depth. Analyze, evaluate, and reflect a controversial educational leadership issue, such as school reform, organizational studies, curriculum, instruction and supervision, assessment and evaluation, and sociocultural studies.

**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.



# Department of Educational Leadership and Technology

## Department of Educational Leadership and Technology

College of Education Building, Room 374, (909) 537-7404  
Department of Educational Leadership and Technology website (<http://coe.csusb.edu/departments/elt>)  
Career and Technical Education website (<http://coe.csusb.edu/programs/careerTechnicalEd/undergraduateDegrees>)

### Bachelor of Arts

- Career and Technical Studies

### Bachelor of Science

- Career and Technical Studies

### Minor

- Career and Technical Education

### Certificate

- Career and Technical Education

### Certificate Programs

- E-Learning
- Educational Technology
- School Business Management

### Basic Credential

- Designated Subjects Career and Technical Education

### Specialist and Services Credentials

- Administrative Services Preliminary
- Administrative Services Preliminary (Internship)
- Administrative Services Professional
- Supervision and Coordination of Designated Subjects Program

### Master of Arts

- Education - Career and Technical Education Option
- Education - Instructional Technology Option
- Education - Teacher Leadership Option (Offered through the College of Extended Learning)
- Educational Administration

### Doctor of Education

- Educational Leadership

### Current Faculty

Nancy Acevedo-Gil, Assistant Professor  
B.A. 2006, University of California, Berkeley  
M.A. 2009, San Jose State University

Eun-OK Baek, Professor  
B.A. 1987, M.Ed. 1993, Chinju National University, Korea  
M.A. 1998, Ph.D. 2002, Indiana University

Sidney Burks, Lecturer

B.A. 1970, M.A. 1972, San Diego State 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

Susan Jindra, Lecturer  
B.A. 1972, Columbia University  
MILS, 1974, DED 2001, University of Southern California

Amy S.C. Leh, Professor  
B.A. 1981, Providence College, Taiwan  
M.A. 1991, M.E. 1992, Ph.D. 1997, Arizona State University

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

Thelma Moore-Steward, Professor  
B.A. 1972, California State University, Dominguez Hills  
M.S. 1975, Ed.D. 1990, University of Southern California

Brian W. Newberry, Professor  
B.A. 1985, Southern Illinois University of Edwardsville  
M.S. 1993, Northern Arizona University  
Ph.D. 2003, University of Kansas

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  
B.A. 1985, M.A. 1992, San Diego State University  
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

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

Maiyoua Vang, Assistant Professor  
B.A. 1995, M.A. 2004, California State University, Fresno  
D.E.D. 2008, University of California, Davis

### Emeritus

Patricia Arlin

### Undergraduate Degrees

#### Bachelor of Arts

- Career and Technical Studies (p. 437)

## Bachelor of Science

- Career and Technical Studies (p. 436)

## Graduate Degrees

### Master of Arts

- Education - Career and Technical Education Option (p. 441)
- Education - Instructional Technology Option (p. 443)
- Education - Teacher Leadership Option (Offered through the College of Extended Learning) (p. 445)
- Educational Administration (p. 446)

### Doctor of Education

- Educational Leadership (p. 439)

### Minor

- Career and Technical Education Minor (p. 447)

### Certificate

- Career and Technical Education (p. 437)

### Certificate Programs

- E-Learning (p. 438)
- Educational Technology (p. 438)
- School Business Management (p. 438)

### Basic Teaching Credential Program

- Designated Subjects Career and Technical Education (p. 439)

### Specialist and Services Credential Programs

- Administrative Services Preliminary (p. 435)
- Administrative Services Preliminary (Internship) (p. 434)
- Administrative Services Professional (p. 435)
- Supervision and Coordination of Designated Subjects Program (p. 447)

### 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: ECTS 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.

## 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 and 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. Student must receive approval of the Practicum Application Form and documentation of completion of an entry level administrative experience selected in consultation with instructor and district mentor. Ninety hours of experience is required.

### **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 the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 2 units and 60 hours at each level for a total of 4 units. Formerly EADM 628.

### **EADM 621B. Fieldwork in Educational Administration I. 2 Units.**

Prerequisites: EADM 601, EADM 617, EADM 621A and EADM 622  
Administrative fieldwork at the elementary and the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 2 units and 60 hours at each level for a total of 4 units. Formerly EADM 628.

### **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.

## **Environmental Education Courses**

### **EENV 601B. Graduate Independent Study. 2 Units.**

Prerequisites: EENV 635, consent of advisor, and approval of a written proposal by the graduate program coordinator

Graduate level independent study to be conducted under direct supervision of a faculty member. No more than four units may be applied toward the masters degree.

### **EENV 601D. Graduate Independent Study. 4 Units.**

Prerequisites: EENV 635, consent of advisor, and approval of a written proposal by the graduate program coordinator

Graduate level independent study to be conducted under direct supervision of a faculty member. No more than four units may be applied toward the masters degree.

### **EENV 620. Using Childrens Literature to Teach Environmentally. 4 Units.**

In-depth study of childrens literature as it applies to both classroom and outdoor settings. Emphasis on evaluating literature for environmental concepts and utilizing strategies for interdisciplinary instruction. Formerly EENV 670E.

### **EENV 635. Environmental Education in the Curriculum. 4 Units.**

An introductory course on integrating into the curriculum environmental concepts and values concerning the relationship of people with their natural and physical surroundings. Review of curricula, conceptual frameworks, resources and methods.

### **EENV 636. Teaching Current Environmental Issues. 2 Units.**

Prerequisite/Corequisite: EENV 635

Examines local relevant environmental issues and teaching strategies that can assist in understanding and analyzing these issues. Formerly EENV 670A.

### **EENV 642. Developing the Curriculum through Outdoor Education. 4 Units.**

Prerequisites: EENV 635

Procedures and instructional materials for teaching out of doors and the integration of environmental education into the curriculum. Includes program development for resident outdoor school.

### **EENV 643. Community Resources for Environmental Education. 4 Units.**

Prerequisites: EENV 635

Application of teaching resources and environmental issues. Survey of resource agencies. Organized visits to educational sites.

### **EENV 644A. Seminar in Environmental 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 the consent of the instructor.

### **EENV 644B. Seminar in Environmental 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 the consent of the instructor.

### **EENV 644C. Seminar in Environmental 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 the consent of the instructor.

### **EENV 644D. Seminar in Environmental 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 the consent of the instructor.

### **EENV 650. Selected Topics in Environmental Education. 4 Units.**

Prerequisites: EENV 635

Techniques, topics and skills in environmental education, to be developed by the instructor. Formerly EENV 670K.

### **EENV 651. Historical and Contemporary Readings in Environmental Education. 4 Units.**

Prerequisites: EENV 635

Seminar based on selected historical and contemporary readings in environmental education. Formerly EENV 670B.

### **EENV 652. Nature Study in Environmental Education. 4 Units.**

Strategies for designing and implementing nature study in educational settings. Formerly EENV 670L.

### **EENV 654. Fundraising Fundamentals in Environmental Education. 4 Units.**

Techniques and methods for resource acquisition for environmental education programs.

### **EENV 656. Water Education in Environmental Education. 4 Units.**

Strategies for design and implementation of water study in educational settings.



**EENV 664. Research in Environmental Education. 4 Units.**

Prerequisites: EENV 635 and consent of advisor  
Focus on recent developments in the field of environmental education research with emphasis on developing an introduction to a project/thesis and applicable literature review.

**EENV 679B. Fieldwork: Environmental Education. 2 Units.**

Prerequisites: EENV 635 and consent of program advisor  
Field experiences apply academic skills including demonstration of leadership roles in curriculum planning, presentations and professional development related to environmental education. May be repeated as elective for a total of six units. Graded credit/no credit.

**EENV 679C. Fieldwork: Environmental Education. 3 Units.**

Prerequisites: EENV 635 and consent of program advisor  
Field experiences apply academic skills including demonstration of leadership roles in curriculum planning, presentations and professional development related to environmental education. May be repeated as elective for a total of six units. Graded credit/no credit.

**EENV 679D. Fieldwork: Environmental Education. 4 Units.**

Prerequisites: EENV 635 and consent of program advisor  
Field experiences apply academic skills including demonstration of leadership roles in curriculum planning, presentations and professional development related to environmental education. May be repeated as elective for a total of six units. Graded credit/no credit.

**EENV 697. Masters Degree Project. 4 Units.**

Prerequisites: advancement to candidacy and approval of a project plan by the students advisory committee  
Independent graduate study conducted under the guidance of a program advisor and resulting in a written project.

**EENV 699. Thesis. 4 Units.**

Prerequisites: advancement to candidacy and approval of thesis plan by students advisory committee  
Independent graduate research conducted under the guidance of a program advisor and resulting in a written thesis.

**EENV 999. Comprehensive Examination. 0 Units.**

Prerequisites: advancement to candidacy, approval of program coordinator, in last quarter of coursework or completed coursework for the program, and a 3.0 grade point average or higher in courses in program plan

An assessment of the student's ability to integrate the knowledge of environmental education, show critical and independent thinking and demonstrate mastery of the subject matter.

**Instructional Technology Courses****EETC 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.

**EETC 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.

**EETC 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.

**EETC 541. E-Learning Design and Development. 4 Units.**

Examination and application of e-Learning design and development principles and practices.

**EETC 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.

**EETC 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.

**EETC 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.

**EETC 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.

**EETC 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.

**EETC 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.

**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.

**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)**

EADM 601	Educational Leadership and Ethics	4
EADM 607	Culture, Politics and Communication in Diverse Society	4
EADM 610	Supervision and Evaluation of Teachers	4
EADM 613	School Personnel Management	4
EADM 619	Policy, Governance and Legal Aspects of Education	4

EADM 620	Practicum in Educational Administration	1
EADM 622	Curriculum, Instruction and Assessment	4
EADM 625	School Finance and Business Management	4
EADM 626A	Issues and Trends in School Administration: School Reform	1
EADM 626B	Issues and Trends in School Administration: Common Core Standards	1
EADM 626C	Issues and Trends in School Administration: S.T.E.M. Programs	1
EADM 626D	Issues and Trends in School Administration: Special Education	1
EADM 630A	Internship Fieldwork in Educational Administration	2
EADM 630B	Internship Fieldwork in Educational Administration	2
Total Units		37

**Note:** Students must see program coordinator/advisor for recommended sequence of program.

## 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)

EADM 601	Educational Leadership and Ethics	4
EADM 607	Culture, Politics and Communication in Diverse Society	4

EADM 610	Supervision and Evaluation of Teachers	4
EADM 613	School Personnel Management	4
EADM 619	Policy, Governance and Legal Aspects of Education	4
EADM 620	Practicum in Educational Administration	1
EADM 622	Curriculum, Instruction and Assessment	4
EADM 625	School Finance and Business Management	4
EADM 626A	Issues and Trends in School Administration: School Reform	1
EADM 626B	Issues and Trends in School Administration: Common Core Standards	1
EADM 626C	Issues and Trends in School Administration: S.T.E.M. Programs	1
EADM 626D	Issues and Trends in School Administration: Special Education	1
EADM 621A	Fieldwork in Educational Administration I	2
EADM 621B	Fieldwork in Educational Administration I	2
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;
6. An Individual Program Plan (IP) on file.

### Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. 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)

EADM 681	Vision and Learning	3
EADM 682	Culture for Student Learning and Professional Growth	3
EADM 683	Organization and Resource Management	3

EADM 684	Collaboration with Diverse Families and Communities	3
EADM 685	Leadership Capacity and Ethics	3
EADM 686	Factors of School Context	3
Total Units		18

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.

# 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 90 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:		8
ECTS 508	Organization and Structure of Career and Technical Programs	
ECTS 509	Personnel Management in Career and Technical Programs	
ECTS 510	Field Work in Coordination and Supervision of Career and Technical Programs	
ECTS 518	Field Work in Designated Subjects	
ECTS 519	Computer Applications for Career and Technical Educators	
ECTS 520	Curriculum Development for Career and Technical Programs	
ECTS 521	Assessing Student Progress	
ECTS 522	Directing and Managing Occupational Programs	
ECTS 523	Learning Theory and Instructional Research Applied to Adult Learners	

### 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:		12
ETEC 500	Foundations in Instructional Education	
ETEC 537	Computer Based Technology in Education I	
ETEC 543	Technology and Learning I	
ETEC 544	Design and Development of Instructional Materials I	
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:		8
FIN 420	Entrepreneurial Finance	
MGMT 442	Small Business Management	
MGMT 455	Human Resources Management	
MGMT 515	Business Consulting	
MGMT 541	Commercializing Entrepreneurial Innovation	
MGMT 547	Managing a Growing Business	
MGMT 575	Internship	

MKTG 430	Professional Selling and Sales Management	
MKTG 460	Retailing	
Total Units		74

Note: In order to qualify for the Designated Subjects Career and Technical Education Teaching Credential, students should have at least three years of verifiable work experience directly related to each industry sector named on the credential. One year must equal a minimum of 1000 clock hours for ROP or 1500 hours for adult education. Students pursuing the credential must also earn a "B" or better in all professional education courses attempted (those with the ECTS prefix).

## Bachelor or 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

- Students must complete a minimum of 180 quarter units of college credit:
  - 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.
  - At least 60 of these units must be in upper-division course work;
  - Eighty-two of these units must be in the area of general education as specified in the general education requirements, Page 68;
  - 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;
  - Forty of these units must be in the Career and Technical Studies courses;
  - Twenty-four of these units will consist of electives;
- Students must earn a grade point average of 2.0 ("C") or better in all work attempted and 3.0 ("B") or better in all professional education courses attempted;
- Students must complete the upper-division writing requirement (EDUC 306);

- Students must complete the history, constitution and government requirements (see Page 71);
- 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	4
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
-------------	-------

## 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:

- 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.

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

## 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:		16
ETEC 501	Foundations of e-Learning	
ETEC 541	E-Learning Design and Development	
ETEC 674	E-Learning Technology and Media	
ETEC 648	E-Learning Delivery and Evaluation	
ETEC 692	Practicum in Educational Technology	
Total Units		16

## 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

ETEC 500	Foundations in Instructional Education	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	4
ETEC 676D	Advanced Topics in Instructional Technology	4
Eight units chosen from:		8
CSE 125	Programming in Visual Basic	
ETEC 644	Design and Development of Instructional Materials II	
ETEC 676B-G	Advanced Topics in Instructional Technology	
MUS 519	Audio Production	
Total Units		28

## 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

ESBM 311	School Business Management	4
ESBM 312	School Finance and Budgeting	4
ESBM 313	School Accounting and Fiscal Operations	4
ESBM 314	Business Support and Service Operations; Purchasing Warehousing and Inventory	2
ESBM 315	Facilities Planning, Construction and Risk Management	2
ESBM 316	School Maintenance, Operations and Transportation	2
ESBM 317	Legal Aspects of Classified Personnel Administration	4

ESBM 318	Classified Personnel Administration and Supervision	4
Elective:		
ESBM 320	Fieldwork in School Business Management	2
Total Units		28

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. Fulfill the health education requirement: HSCI 540.
3. Valid CPR card (Adult, child, Infant).
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.

## 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.

## Designated Subjects Career and Technical Education 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)

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

### 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):



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 the data, the findings based on the analysis of the data, and the conclusions or recommendations. The dissertation will reflect original analysis and independent, critical thought.

**Final Examination (Oral)**

The student is required to present the proposal orally to the committee and respond to committee members' questions about the proposal. The proposal defense must be completed prior to the end of the first quarter (fall quarter) in Year III of the program. This examination will be administered by the dissertation committee. Unanimous agreement of the dissertation committee is required for approval of the dissertation and recommendation that the Ed.D. degree be conferred. In the event that the dissertation committee requires substantive changes to the dissertation, the final vote of the committee will be postponed until the changes are completed. Submission of the approved dissertation is the last step in the program leading to the awarding of the Ed.D. degree. The dissertation must be submitted by the specified deadline. The dissertation format must conform to CSUSB's approved dissertation manuscript requirements as outlined in the Student Handbook. The final copy of the dissertation must be approved by the dissertation committee and the Office of Graduate Studies.

**Degree Requirements (94 units)**

EDUC 700	Scientific Inquiry	4
EDUC 702	Foundations in Education and Leadership	5
EDUC 705	Organization and Administration of School Systems/Community Colleges	4
EDUC 707	Quantitative Research Methods	4
EDUC 709	Diversity and Equity in Educational Administration: School Districts and Community Colleges	4
EDUC 712	Qualitative Research Methods	4
EDUC 714	Educational Systems as Cultural and Social Systems	4
EDUC 718	Strategic Planning, Accountability and Change	5
EDUC 720	Advanced Quantitative Research Methods	4
or EDUC 722	Advanced Qualitative Research Methods	
EDUC 726	Ethical Leadership and Decision Making in Education	4
Eight units at the master's level which relate to the student's area of dissertation study chosen in consultation with the student's dissertation chair and the program director.		8
Optional: Required courses must be completed before these units can be taken:		
EDUC 780A-D	Special Topics in Educational Leadership	1-4
EDUC 795C-D	Independent Study	3-4
Specialization. Students must take all courses within one of the following specializations.		23
Dissertation:		
EDUC 790	Research Seminar (for a total of 5)	5
EDUC 799B-F	Dissertation	2-5
<b>Total Units</b>		<b>84-91</b>

**Specializations**

**P-12 Specialization (23 units)**

EADM 730	Politics, Legislative Action and Educational Change	4
EADM 732	Fiscal Planning and Facilities Management	5
EADM 734	Advanced Human Resource Management	5
EADM 736	Instructional Leadership and Learning Strategies	4
EADM 738	Assessment and Evaluation	5
<b>Total Units</b>		<b>23</b>

**Community College Specialization (23 units)**

EADM 760	Foundations and Introduction to Community College	4
EADM 762	Trends and Issues in Community Colleges	4
EADM 764	Instructional Methodologies and Strategies in Community Colleges	5
EADM 766	Community College Finances and Fiscal Resources	5
EADM 768	Community College Leadership, Governance, Policy and Politics	5
<b>Total Units</b>		<b>23</b>

**Master of Arts in Education - Career and Technical 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 (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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
ECTS 519	Computer Applications for Career and Technical Educators	4
ECTS 637	Foundations of Career and Technical Studies	4
ECTS 638	Critical Issues for the Career and Technical Educator	4
ECTS 639	Professional Competencies in Career and Technical Studies	4
ECTS 640B-D	Topics in Education	
Successful completion of Track A or Track B:		15
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	4
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	4
Remaining units of electives approved by the candidate's advisor.		

## Educational Computing

ETEC 546	Computer Based Technology in Education II	4
Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Computing.		

## Educational Technology

ETEC 544	Design and Development of Instructional Materials I	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 - 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 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 cumulative grade point average of 3.0 ("B") in all upper-division courses;
2. Completion of the graduate entrance writing requirement;
3. Three letters of recommendation, from individuals familiar with the applicant's work history or educational background.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

## Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 16 units and 20 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 607, ETEC 500, ETEC 543 and ETEC 544;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of Graduate Studies.

## Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 completed in residence at this university;
2. A minimum of 28 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of a master's degree project or comprehensive examination. The project, part of a course or courses other than independent study, normally in the candidate's teaching area, can be reported in the form of a paper and/or other media. The project must be approved by the instructor and the advisor and submitted in the approved format. Both media and non-media projects require a final written report. The project proposal and the project must be approved by the student's advisor and two other professors, at least one of whom must be from the College of Education. Further information is available from the College of Education regarding an approved format for the project proposal and project.  
The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor. The written comprehensive examination is designed to test the student's knowledge in the field of instructional technology. Before

taking the comprehensive examination, students need to present their e-portfolio and successfully complete a presentation in ETEC 692, a required course in the program. Students may not take the examination more than twice;

5. The graduation writing requirement is met upon successful completion of the Master's Degree Project;
6. A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
7. Any additional general requirements not cited above and listed 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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
ETEC 500	Foundations in Instructional Education	4
ETEC 543	Technology and Learning I	4
ETEC 544	Design and Development of Instructional Materials I	4
ETEC 692	Practicum in Educational Technology	4
One of the following		4

Research

ETEC 643 Technology and Learning II

Design/Development

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: 4

Master's Project:

ETEC 699 Masters Degree Project

Comprehensive Examination:

ETEC 999 Comprehensive Examination

Four units of ETEC courses.

Total Units

48

## Master of Arts in Education - Teacher Leadership Option

Offered through the College of Extended Learning (<http://cel.csusb.edu>)

### 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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
Total Units		12

## Emphasis Areas (36 units)

### Organizational Leadership (8)

EADM 601	Educational Leadership and Ethics	4
EADM 607	Culture, Politics and Communication in Diverse Society	4

### Learning/Teaching (12)

EDCI 638	Advanced Educational Psychology	4
EDUC 634	Motivation, Teaching and Learning	4
EDCI 641	Curriculum and Policy	4

### Technology Leadership (8)

EETC 546	Computer Based Technology in Education II	4
EETC 623	Technology for Educational Leaders	4

### Inclusive Education (8)

EDUC 630	Supportive Learning Environments for All Students	4
EESL 670	Principles and Practice in TESOL	4

### Culminating Experience (0)

EDCI 999	Comprehensive Examination	0
Total Units		36

## 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)

EADM 601	Educational Leadership and Ethics	4
EADM 602	Research Methods in Educational Administration	4
EADM 607	Culture, Politics and Communication in Diverse Society	4
EADM 610	Supervision and Evaluation of Teachers	4
EADM 613	School Personnel Management	4

EADM 619	Policy, Governance and Legal Aspects of Education	4
EADM 620	Practicum in Educational Administration	1
EADM 622	Curriculum, Instruction and Assessment	4
EADM 625	School Finance and Business Management	4
EADM 626A	Issues and Trends in School Administration: School Reform	1
EADM 626B	Issues and Trends in School Administration: Common Core Standards	1
EADM 626C	Issues and Trends in School Administration: S.T.E.M. Programs	1
EADM 626D	Issues and Trends in School Administration: Special Education	1
Four units chosen from:		4
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:		4
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

## Minor in Career and Technical Education

### 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
ECTS 520	Curriculum Development for Career and Technical Programs	4
ECTS 521	Assessing Student Progress	4
Total Units		28

## 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)

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
Successful completion of the California Basic Educational Skills Test (CBEST).		
Total Units		12



## Department of Special Education, Rehabilitation and Counseling

### Department of Special Education, Rehabilitation and Counseling

College of Education Building, Room 243, (909) 537-5606  
Department of Special Education, Rehabilitation and Counseling website  
(<http://coe.csusb.edu/programs/rehabCounseling>)

#### Certificates

- Counseling
- Rehabilitation Counseling

#### Certificate Program

- Education of the Gifted and Talented

#### Basic Credentials

- Autism Spectrum Disorder Added Authorization in Special Education
- Early Childhood Special Education Added Authorization
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization

#### Specialist and Services Credentials

- 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

#### Master of Arts

- Educational Counseling
- Rehabilitation Counseling

#### Master of Science

- Counseling and Guidance
- Special Education (Admission is contingent on final approval of the program by the CSU Chancellor's Office)

#### Current Faculty

Marissa Congdon, Assistant Professor

Ph.D., 2013, University of Washington

Carolyn R. Eggleston, Professor  
B.S. 1973, M.A. 1975, Tennessee Tech. University  
Ph.D. 1989, Virginia Commonwealth University

Sherri Franklin-Guy, Associate Professor  
B.A. 1994, M.E.D. 2001, Ph.D. 2006, Wichita State University

Lorraine Hedtke, Associate Professor  
Ph.D., University of California, Los Angeles, 2003

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

Sang Seok Nam, Professor  
B.Ed. 1984, M.A. 1987, Taegu University  
Ph.D. 1996, Arizona State University

Robert (Brett) Nelson, Professor  
B.A. 1976, Appalachian State University  
M.A. 1980, Georgia State University  
Ph.D. 1992, University of Colorado-Boulder

Kathleen M. Phillips, Lecturer  
B.A. 1987, Michigan State University  
M.A. 1994, California State University, San Bernardino

Daniel Stewart, Lecturer  
Ph.D., 2012, Universidad Central de Nicaragua

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

Dudley J. Wiest, Professor  
B.S. 1979, Concordia College  
M.A. 1983, California State University, Northridge  
Ph.D. 1992, Claremont Graduate University

John M. Winslade, Professor  
B.A. 1973, M.A. 1990, University of Auckland  
Ph.D. 2003, University of Maikato

#### Emeriti

Margaret H. Cooney, Professor

Joseph Turpin, Professor

## Graduate Degrees

### Master of Arts

- Master of Arts in Rehabilitation Counseling (p. 469)
- Master of Arts in Education - Special Education Option (p. 466)

### Master of Science

- Counseling and Guidance (p. 470)
- Special Education (p. 471) (Admission is contingent on final approval of the program by the CSU Chancellor's Office)

## Certificates

- Counseling (p. 459)
- Rehabilitation Counseling (p. 460)

## Certificate Program

- Education of the Gifted and Talented (p. 460)

## Basic Teaching Credential Programs

- Autism Spectrum Disorder Added Authorization in Special Education (p. 458)
- Early Childhood Special Education Added Authorization (p. 460)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 465)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 461)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 463)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 473)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 474)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 476)

## Specialist and Services Credential Programs

- Education Specialist Clear Credential (p. 461)
- Professional Clear Level II Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 479)
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 478)
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 478)
- Pupil Personnel Services Credential: School Counseling (p. 479)
- Pupil Personnel Services Credential: School Psychology (p. 480)

## 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 of 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.**

Principles of the diagnostic process. Use of diagnostic tools. The impact of co-occurring substance abuse and medical disorders. Diagnostic interviewing skills. Planning for treatment.

**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.**

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.**

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.

## **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 of and techniques of counseling skills to serve multi-ethnic populations relating to individuals with disabilities. Analysis of differing socio-economic, racial, and social backgrounds of individuals with disabilities. Includes 20 hours of related practicum experience. May not be taken for credit by students who have received credit for ECLG 655.

### **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 667. Practicum in Rehabilitation Counseling. 4 Units.**

Prerequisites: EREH 657 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.

## **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 600. Master of Science in Special Education Project. 4 Units.**

Prerequisites: Advancement to candidacy and consent of the department  
Independent graduate research conducted under the guidance of the major advisor and resulting in a written project.

### **ESPE 601. Legal and Historical Foundations of Special Education. 4 Units.**

Prerequisites: Classified admission to Master of Science in Special Education program

Legal, historical, and ethical foundations of special education including legislation, regulations and case law that govern the provision of special education.

### **ESPE 602. Research in Special Education. 4 Units.**

Prerequisites: Classified admission to Master of Science in Special Education program

Introduction to qualitative and quantitative research methods, including single subject design. Formulation of research questions and preparation of research documents. Understanding descriptive and Inferential statistics in education research. Reading and understanding current research in special education.

### **ESPE 603. Critical Issues in Special Education. 4 Units.**

Prerequisites: Classified admission to Master of Science in Special Education program

Critical trends and issues in special education affected by current social, political, and economic conditions. Readings and discussions focus on education reform, multicultural and language issues, inclusion, access to core curriculum, and transition.

### **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

Characteristics of the autism spectrum and related developmental disabilities; implications for education and treatment.

### **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

Principles of systematic instruction to community-based instruction, functional academics, language training, and social skills training. Application of computer and other technology to learners with severe handicaps. A 20-hour practicum will be required.

### **ESPE 653. Seminar on Moderate/Severe Disabilities. 4 Units.**

Prerequisites: ESPE 530, ESPE 531, ESPE 611, ESPE 612, ESPE 651, and ESPE 652

Advanced seminar designed to study current issues and empirical research findings relating to the education of students with moderate and severe disabilities.

### **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.

## Autism Spectrum Disorder Added Authorization in Special Education 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 (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](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)

ESPE 610	Introduction to Autism Spectrum Disorders	4
ESPE 623A	Education Specialist Added Authorization Practicum: Autism Spectrum Disorders I (must be taken concurrently with ESPE 610)	4
ESPE 623B	Education Specialist Added Authorization Practicum: Autism Disorders II (must be taken concurrently with ESPE 627)	4
ESPE 627	Education of Students with Autism Spectrum Disorders	4
Total Units		16

## 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

Complete at least five of the following: 20

EDUC 607	Introduction to Educational Research
ECLG 619	Appraisal Procedures in Counseling
ECLG 633	Human Development for Counseling
ECLG 650	Career Counseling
ECLG 654	Legal and Ethical Issues in Counseling and Guidance
ECLG 655	Multicultural Counseling
ECLG 656	Counseling Theories
ECLG 657A	Counseling Practicum I
ECLG 657B	Advanced Counseling Practice
ECLG 658	Family Consultation
ECLG 678	Group Counseling
ECLG 661	Diagnosis and Treatment Plan
ECLG 669	Psychopharmacology

ECLG 662	Addictions Counseling	
ECLG 663	Gender and Sexuality	
ECLG 664	Crisis and Trauma Counseling	
ECLG 668	Aging Death and Grief	
ECLG 665	Family Violence	
ECLG 667	Conflict Resolution	
ECLG 679	Counseling Field Experience	
Total Units		20

## 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

ECLG 536	Social-Emotional Development of the Gifted and Talented	4
EDCI 540	Differentiated Curriculum and Instruction Creativity, Thinking and Problem Solving	4
EDCI 543	Creativity, Thinking and Problem Solving	4
ESPE 538	Introduction to Teaching the Gifted and Talented	4
ESPE 539	Programs for Teaching the Gifted and Talented	4
Total Units		20

## Certificate in Rehabilitation 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.

### Certificate Requirements (28 units)

EREH 615	Introduction to Rehabilitation Counseling (must be completed with a grade of "B" (3.0) or better to continue work in the certificate program)	4
EREH 616A	Multiple Aspects of Disability: Medical	4
EREH 616B	Multiple Aspects of Disability: Vocational	4
EREH 617	Vocational Assessment and Development	4
EREH 618	Applied Job Placement	4
EREH 649	Organizational Development of Rehabilitation Services	4

#### Elective (4)

Four units of other Rehabilitation Counseling (EREH) coursework (i.e. fieldwork) approved by the Program Coordinator

Total Units		28
-------------	--	----

## Early Childhood Special Education Added Authorization 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 (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](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)

ESPE 623C	Education Specialist Added Authorization Practicum: Early Childhood Special Education I (must be taken concurrently with ESPE 672)	4
ESPE 623D	Education Specialist Added Authorization Practicum: Early Childhood Special Education II (must be taken concurrently with ESPE 673)	4
ESPE 672	Methods in Early Childhood Special Education I	4
ESPE 673	Methods in Early Childhood Special Education II	4
Total Units		16

## 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.

ESPE 634	Reflective Inquiry: Seminar for Clear Induction Planning	4
ESPE 636	Assessment, Curriculum, Instruction: Culturally/Linguistically Diverse Students with Disabilities	4
ESPE 695	Special Education Clear Induction Outcomes	4
ESPE 696A	Induction Support I	2
ESPE 696B	Induction Support II	1
ESPE 696C	Induction Support III	1
Total Units		16

## 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 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](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:

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: 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:

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
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-:"

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 615	Seminar on Language and Literacy in Early Childhood Special Education	4
ESPE 622C	Supervised Intern Teaching in Special Education: Early Childhood Special Education (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 672	Methods in Early Childhood Special Education I	4
ESPE 673	Methods in Early Childhood Special Education II	4
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:

### 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](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
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: 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.
4. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services.

## 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](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:

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: 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:

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
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-:"

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 615	Seminar on Language and Literacy in Early Childhood Special Education	4
ESPE 622C	Supervised Intern Teaching in Special Education: Early Childhood Special Education (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 672	Methods in Early Childhood Special Education I	4
ESPE 673	Methods in Early Childhood Special Education II	4
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.

## 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 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)

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 course work. Students will not be permitted to take the comprehensive examination in the same quarter they are advanced to candidacy.

## Requirements for Graduation

In addition to requirements listed 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.

- A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;
- Successful completion of the project/thesis and/or comprehensive examination to meet the university graduation writing requirement.

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. The project proposal and the project must be approved by the student's 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	

#### Mild/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	
ESPE 653	Seminar on Moderate/Severe Disabilities	
or ESPE 657	Seminar on Mild/Moderate Disabilities	

### 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
<hr/>	
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 Schaumburg, Illinois, and of the university graduation writing requirement.

### Degree Requirements (72 units)

#### Rehabilitation counseling courses (68)

EREH 610	Research and Assessment in Rehabilitation	4
EREH 615	Introduction to Rehabilitation Counseling	4
EREH 616A	Multiple Aspects of Disability: Medical	4
EREH 616B	Multiple Aspects of Disability: Vocational	4
EREH 617	Vocational Assessment and Development	4
EREH 618	Applied Job Placement	4
EREH 649	Organizational Development of Rehabilitation Services	4
EREH 655	Multicultural Counseling in Rehabilitation	4
EREH 652	Dynamics of Human Behavior	4
EREH 656	Counseling Theories and Techniques in Rehabilitation	4
EREH 657	Counseling Practicum in Rehabilitation	4
EREH 667	Practicum in Rehabilitation Counseling	4
EREH 672	Seminar Topics in Rehabilitation Counseling (Topic examples: Casework Management, Research in Rehabilitation, Current Issues in Rehabilitation, and Multicultural Issues)	4

EREH 678	Theory and Practice of Group Counseling in Rehabilitation	4
EREH 679	Fieldwork in Rehabilitation Counseling (for a total of 12)	12
<b>Culminating Experience (4)</b>		
EREH 695	Certified Rehabilitation Counselor Examination Preparation	4
EREH 999	Comprehensive Examination *	0
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.

## 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:

- Attend a Counseling Program admission meeting (call the Department of Educational Psychology and Counseling for orientation schedule);
- Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meetings. Portfolios will be evaluated according to the Counseling program portfolio rubric. A completed portfolio contains:
  - Application and current vitae/resume;
  - Transcripts of all higher education coursework;
  - Written Personal Statement;
  - Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);

- Proof of successful completion of the CBEST;
  - Evidence of current negative TB skin test;
  - Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
  - Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
  - Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet and email;
- 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
- 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:

- Achieved classified graduate standing;
- Completed 20 quarter units of coursework with a grade point average of 3.0 ("B"), to include ECLG 619, ECLG 654 and ECLG 656;
- 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

- A minimum of 90 quarter units of graduate-level work, with a minimum of 64 units completed in residency at this university;
- A minimum of 25 quarter units of credit taken after a student has been advanced to candidacy for the degree;
- A grade point average of 3.0 ("B") in course work taken to satisfy the degree requirements, including a minimum of a "B" in ECLG 531, ECLG 657A, ECLG 657B, and no grade below a "C" (2.0) in all other courses in the program;
- The graduation writing requirement is met either through demonstrated competence by comprehensive examination, or through completion of a Master's degree project;
- Completion of a graduation requirement check;
- 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)

ECLG 531	Introduction to Counseling	2
EDUC 607	Introduction to Educational Research	4
ECLG 619	Appraisal Procedures in Counseling	4
ECLG 633	Human Development for Counseling	4
ECLG 650	Career Counseling	4
ECLG 654	Legal and Ethical Issues in Counseling and Guidance	4
ECLG 655	Multicultural Counseling	4
ECLG 656	Counseling Theories	4
ECLG 657A	Counseling Practicum I	4
ECLG 657B	Advanced Counseling Practice	4
ECLG 658	Family Consultation	4
ECLG 661	Diagnosis and Treatment Plan	4
ECLG 662	Addictions Counseling	4
ECLG 663	Gender and Sexuality	4
ECLG 664	Crisis and Trauma Counseling	4
ECLG 665	Family Violence	4
ECLG 667	Conflict Resolution	4
ECLG 668	Aging Death and Grief	4
ECLG 669	Psychopharmacology	4
ECLG 678	Group Counseling	4
Twelve units of field experience made up by enrolling three times in:		12
ECLG 679	Counseling Field Experience	
Culminating Experience. Students must choose one of the following:		
ECLG 999	Comprehensive Examination	
or ECLG 697	Master's Degree Project	
(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:		
ECLG 632	Advanced Psychological Foundations of Education	
ECLG 651	Professional School Counselor	
Total Units		90

## Master of Science in Special Education

### Admission is contingent on final approval of program by the CSU Chancellor's Office

#### Requirements (52 units)

The MS in Special Education will provide students with advanced preparation in research methodologies and research based practices that address contemporary topics and issues in the field of Special Education. Options for concentration in Early Childhood Special Education, Mild to Moderate Disabilities, and Moderate to Severe Disabilities are available. The Special Education program recommends that students pursuing the Master of Science degree in Special Education be concurrently enrolled in an Education Specialist credential program. Students pursuing the degree only must have permission from the Special Education Program Coordinator.

### Admission to the Program

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://coe.csusb.edu/programs/specialEducation/mastersDegreeStudents>) and attend a mandatory Information Session. The schedule for Information Sessions may be obtained on the CSUSB Special Education webpage:

1. Original written verification of passing score for the California Basic Educational Skills Test (CBEST);
2. Two written recommendations by persons who can address scholastic performance;
3. Verification of a negative tuberculin examination within the last four years;
4. Academic Achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 3.0 in all baccalaureate and postbaccalaureate course work or at least 3.0 in the last 90 quarter units attempted;
5. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
6. 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;
7. Satisfactory completion of prerequisite courses, ESPE 530 and ESPE 531, with a grade of "B" or better.

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 (classified) admission to the M.S. in Special Education program;
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 coordinator of the Special Education program.

Note: Advancement to candidacy must be processed prior to completion of 20 quarter units of master's degree course work. Students will not be permitted to take the comprehensive examination in the same quarter they are advanced to candidacy.

## Requirements for Graduation

In addition to requirements listed in Graduate Degree and Program Requirements, candidates must meet the following requirements for graduation:

1. A minimum of 52 quarter units of acceptable work, with a minimum of 37 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 Science 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 Registrar's Office 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.

## Degree Requirements (52 units)

Core course requirements

ESPE 601	Legal and Historical Foundations of Special Education	4
ESPE 602	Research in Special Education	4
ESPE 603	Critical Issues in Special Education	4
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 614	Curriculum and Methods for Diverse Learners with Disabilities	4
ESPE 625	Collaboration and Consultation in Special Education	4
ESPE 627	Education of Students with Autism Spectrum Disorders	4

Emphasis course requirements

Students must chose one of the following: 12

1. Early Childhood Special Education Option

ESPE 615	Seminar on Language and Literacy in Early Childhood Special Education	
ESPE 672	Methods in Early Childhood Special Education I	
ESPE 673	Methods in Early Childhood Special Education II	

2. Mild to Moderate Disabilities option

ESPE 613	Seminar in Literacy Learning for Students with Disabilities	
ESPE 642	Methods in Mild/Moderate Disabilities I	
ESPE 643	Methods in Mild/Moderate Disabilities II	

3. Moderate to Severe Disabilities option

ESPE 613	Seminar in Literacy Learning for Students with Disabilities	
ESPE 662	Methods for Students with Moderate/Severe Disabilities I	
ESPE 663	Methods for Students with Moderate/Severe Disabilities II	

Culminating experience

Students must chose ONE of the following options to demonstrate the graduate exit writing requirement: 4

ESPE 600	Master of Science in Special Education Project	
----------	--	--

or

ESPE 999	Comprehensive Examination	
----------	---------------------------	--

AND 4 units chosen from:

ESPE 653	Seminar on Moderate/Severe Disabilities	
ESPE 657	Seminar on Mild/Moderate Disabilities	

Total Units 52

# 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](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:

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.

## 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:

- Completion of the upper-division writing requirement by ONE of the following:
  - Completion, with a grade of "B" (3.0) or better, in an expository writing course (306) taken at this university;
  - Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
  - Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
  - A passing score on the written portion of the CBEST.  
**Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree;
- Completion of the U.S. Constitution requirement by one of the following:
 

HIST 146	American Civilization	4
HIST 200	United States History to 1877	4
HIST 540	Constitutional History of the United States	4
PSCI 203	American Government	4
PSCI 410	American Constitutional Law	4
PSCI 411	The Bill of Rights	4

Successful completion of an examination administered through the College of Extended Learning;

Approved U.S. Constitution course substitution from another university;
- Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
- A grade point average of 3.0 ("B") in professional education 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 (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](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:

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.

## 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 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 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
ESPE 620A	Supervised Student Teaching in Special Education I: Mild/Moderate Disabilities	8
ESPE 621A	Supervised Student Teaching in Special Education II: Mild/Moderate	8
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 Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Program website ([http://www.csusb.edu/coe/programs/special\\_ed](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;

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:		
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.

## 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.

## 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):

EETEC 537	Computer Based Technology in Education I	4
EETEC 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
ESPE 649	Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation	4
ESPE 652	Applied Curricular Strategies for Students with Moderate/Severe Disabilities	4
ESPE 685	Advanced Behavior Management	4
ESPE 694	Special Education Leadership Evaluation and Outcomes II	4
Total Units		28

## 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)

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
ESPE 649	Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation	4
ESPE 656	Curriculum and Methods in Special Education: Core Subjects	4
ESPE 685	Advanced Behavior Management	4
ESPE 694	Special Education Leadership Evaluation and Outcomes II	4
Total Units		28

## 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;
3. Application to ESPE 633 Reflective Inquiry Seminar and Induction Plan. 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 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)

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
ESPE 652	Applied Curricular Strategies for Students with Moderate/Severe Disabilities	4
ESPE 685	Advanced Behavior Management	4
ESPE 694	Special Education Leadership Evaluation and Outcomes II	4
Total Units		24

## Pupil Personnel Services Credential: School Counseling

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
ESPE 649	Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation	4
ESPE 652	Applied Curricular Strategies for Students with Moderate/Severe Disabilities	4
ESPE 685	Advanced Behavior Management	4
ESPE 694	Special Education Leadership Evaluation and Outcomes II	4
Total Units		28

# 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.

ECLG 689A	Seminar/Internship in School Psychology	4
ECLG 689B	Seminar/Internship in School Psychology	4
ECLG 689C	Seminar/Internship in School Psychology	4
ECLG 689D	Seminar/Internship in School Psychology	4
ECLG 693	Special Topics in School Psychology	4
Total Units		97

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)

EDUC 607	Introduction to Educational Research	4
ECLG 619	Appraisal Procedures in Counseling	4
ECLG 632	Advanced Psychological Foundations of Education	4
ECLG 633	Human Development for Counseling	4
ECLG 654	Legal and Ethical Issues in Counseling and Guidance	4
ECLG 655	Multicultural Counseling	4
ECLG 656	Counseling Theories	4
ECLG 657A	Counseling Practicum I	4
ECLG 658	Family Consultation	4
ECLG 678	Group Counseling	4
ECLG 679	Counseling Field Experience (150 hours)	4
ECLG 696	Special Topics in Counselor Education	2

### School Psychology Specialization Standards (51)

ECLG 647	Individual Testing and Case Study Techniques I	5
ECLG 648	Individual Testing and Case Study Techniques II	5
ECLG 649	Ecological Assessment and Case Study Techniques	5
ECLG 660	Seminar in Child/Adolescent Psychopathology and Treatment	4
ECLG 686	School Psychology Practicum (in consultation with credential coordinator)	4
ECLG 687	School Psychologists as Change Agents: Theory and Practice	4
ECLG 688	Advanced Behavioral Intervention and School Consultation	4

# Department of Teacher Education and Foundations

College of Education Building, Room 261, (909) 537-7405  
Department of Teacher Education and Foundations website (<http://coe.csusb.edu/departments/TEF>)

## Basic Credentials

- Adapted Physical Education Added Authorization
- 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 - Student Teaching Track
- Single Subject - Intern Track

## Specialist and Services Credential

- Reading and Literacy Leadership Specialist Credential

## Minors

- Education
- Gender and Sexuality Studies

## Certificate

- Education

## Certificate Programs

- Crosscultural, Language and Academic Development (CLAD)
- Gender and Sexuality Studies
- Holistic and Integrative Education
- Reading and Language Arts

## Master of Arts

- Education - Bilingual/Cross-Cultural Option - Not offered 2015-16AY
- Education - Correctional & Alternative Education Option - Not offered 2015-16AY
- Education - Curriculum and Instruction Option
- Education - Holistic and Integrative Education Option - Not offered 2015-16AY
- Education - Kinesiology Option
- Education - Mathematics and Science Education Option
- Education - Reading and Literacy Option
- Education - Teaching English to Speakers of Other Languages (TESOL) Option

## Master of Science

- Master of Science in Science, Technology, Engineering and Mathematics Education Option

## Current Faculty

Lasisi Ajayi, Associate Professor  
B.A. 1983, M.S. 1989, Obafemi Awolowo University, IFE  
Ph.D. 1996, Literacy-University of Ibadan

Laura Ashcroft, Lecturer

B.A. 1986, M.A. 1987, Sonoma State University  
Ph.D. 2002, University of San Francisco

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

Maria V. Balderrama, Professor  
B.A. 1978, Wellesley College  
M.A. 1988, San Jose State University  
M.A., Ed.S., Ph.D. 1994, Stanford 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

Susan Daniels, Professor  
B.A. 1980, Barat College  
M.A. 1990, Northeastern Illinois University  
Ph.D. 1995, University of Wisconsin-Madison

Lynn Diaz-Rico, Professor  
B.A. 1968, University of Pittsburgh  
M.A. Ed. 1977, Arizona State University  
Ed.D. 1988, InterAmerican University of Puerto Rico

Barbara M. Flores, Professor  
B.A. 1970, California State University, Hayward  
M.A. 1976, California State University, Sacramento  
Ph.D. 1982, University of Arizona

Thom G. Gehring, Professor  
B.A. 1972, Trenton State College  
M.Ed. 1975, Ph.D. 1987, Virginia Commonwealth 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  
M.A. 1974, M.A. 1976, Ph.D. 1986, Stanford University

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

Kurt Kowalski, Professor  
B.A. 1990, Ph.D. 1995, Arizona State University

Robert H. London, Professor  
B.A. 1969, M.S. 1971, University of Pennsylvania

Ed.D. 1975, University of Massachusetts, Amherst

Enrique Murillo, Professor

M.A. 1995 California State University, Los Angeles

Ph.D. 1999, University of North Carolina Chapel Hill

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

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

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

Michael Verdi, Professor, Associate Dean

B.S. 1985, University of Notre Dame

M.S. 1986, Northwestern University

Ph.D. 1994, Arizona State University

Xinying Yin, Assistant Professor

Ph.D., 2013, Indiana University - Bloomington

Laura H. Young, Associate Professor

B.M. 1975, M.M. 1990, D.M.A. 1994, University of Southern California

## Master of Arts

- Education - Bilingual/Cross-Cultural Option (p. 506) -Not offered 2015-16 AY
- Education -Correctional & Alternative Education Option (p. 515) - Not offered 2015-16 AY
- Education - Curriculum and Instruction Option (p. 507)
- Education - Holistic and Integrative Education Option (p. 509) - Not offered 2015-16 AY
- Education - Kinesiology Option (p. 510)
- Education - Mathematics and Science Education Option (p. 517)
- Education - Reading and Literacy Option (p. 511)
- Education - Teaching English to Speakers of Other Languages (TESOL) Option (p. 513)

## Master of Science

- Master of Science in Science, Technology, Engineering and Mathematics Education (p. 518)

## Minors

- Education (p. 520)
- Gender and Sexuality Studies (p. 521)

**Coordinator:** Todd Jennings

## Certificate

- Education (p. 503)

## Certificate Programs

- Crosscultural, Language and Academic Development (CLAD) (p. 503)
- Gender and Sexuality Studies (p. 504)

**Coordinator:** Todd Jennings

- Holistic and Integrative Education (p. 505)
- Reading and Literacy (p. 505)

## Basic Teaching Credential Programs

- Adapted Physical Education Added Authorization (p. 503)
- Multiple Subject (p. 523)
- Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) (p. 521)
- Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) (p. 525)
- Single Subject - Student Teaching Track (p. 530)
- Single Subject - Intern Track (p. 528)

## Specialist and Services Credential Program

- Reading and Literacy Leadership Specialist Credential (p. 527)

## 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 584. 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. May be repeated for credit.

### **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 emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 528. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements.

### **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). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 536. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements.

**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 640. Content Standards in Curriculum, Instruction and Assessment. 4 Units.**

Prerequisites: preliminary teaching credential from California  
Students will incorporate content standards into their curricula, instructional practices and assessment methods. This course may be applied for the Clear credential in multiple and single subjects.

### **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 517 and 617.

### **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 663. 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 521. Technology-Enhanced Language Learning. 4 Units.**

Survey of theory and practice in teaching English to speakers of other languages by means of technology, including computer software, mobile applications, web-based tools, and multimedia. 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 650. Program Administration for TESOL. 4 Units.**

Survey of existing public and private educational institutions for teaching English to speakers of other languages; overview of curriculum and instruction, program management, and staff supervision.

### **EESL 655. Mentoring and Evaluating TESOL Educators. 4 Units.**

Prerequisites: consent of instructor

Fieldwork in supervision and mentoring for administration of programs for Teaching English to Speakers of Other Languages (TESOL), including theory and practice in leadership and faculty/staff in English-language-teaching schools and programs in the United States and abroad.

### **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 675. Curriculum Design in TESOL. 4 Units.**

Overview of school curriculum 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 and EESL 514.

### **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 instructor

Supervised field work in selected teaching methods and materials development.

### **EESL 680. Practicum in Teaching English to Speakers of Other Languages (TESOL). 4 Units.**

Prerequisites: consent of instructor

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.

## **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 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 field component in an approved setting. Formerly EELB 333. May be taken concurrently with EELB 315 or EELB 316, EELB 317, EELB 510 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 field component including participation with beginning readers in an approved setting. Formerly EELB 445. May be taken concurrently with EELB 313, EELB 317, EELB 510 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 field component including participation with beginning readers in an approved Multiple Subject BCLAD setting. Formerly EELB 446. May be taken concurrently with EELB 313, EELB 317, EELB 510, 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 313, EELB 315 or EELB 316, EELB 510, 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 342. 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 five 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, literacy in the content areas; development of strategies to build comprehension and fluency; assessment techniques; and transfer of literacy skills from first to second language. Formerly EELB 449. May be taken concurrently with EELB 423, 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: HUM 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 510. Culture and Schooling in Multiple Subject Setting. 4 Units.**

Prerequisites: admission to the Multiple Subject Credential Program  
Capstone course for multiple subject student teachers and interns.

Examines current practices in local school districts as related to healthy lifestyles for children as well as appropriate academic practices. Topics include legal and ethical responsibilities of teachers and the identification and use of community resources to support families. Requires field component in an internship or student teaching setting. Formerly EELB 312. Must be taken in the last quarter of enrollment in the credential program.

### **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 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 542A. 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, EELB 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.**

Overview of programs, curricula, and resources for the education of English language learners. Strategies for English language development and methods for sustaining access to the core academic curriculum. Assessment techniques for initial placement and progress evaluation of learners. Psychological and sociocultural factors which affect first and second language development. Required for California SB 2042 clear credential. Formerly EDUC 640.

### **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.

## **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.

**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, ESTM 624 and ESTM 625 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 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.

### **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 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 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.)

## Adapted Physical Education Added Authorization 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 (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)

KINE 311	Introduction to Adapted Physical Education	4
KINE 330	Movement Skill Assessment for Individuals with Disabilities	4
KINE 332	The Nature and Issues Concerning Individuals with Disabilities	4
KINE 333	Applied Behavior Management	4
KINE 334	Seminar in Adapted Physical Activity	4
Total Units		20

## 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

EELB 510 or EESL 536	Culture and Schooling in Multiple Subject Setting Crosscultural Teaching	4
EELB 313 or ESEC 333	Pedagogical Foundations for English Language Learners Curriculum and Instruction for a Diverse Society	4
ESEC 511	Theory and Practice for English Language Development (ELD)	4
EELB 605 or ESEC 605	Curriculum for Specially Designed Academic Instruction in English (SDAIE) Curriculum for Specially Designed Academic Instruction in English (SDAIE)	2
EELB 680 or ESEC 680	Practicum in Teaching English as a Second Language Practicum in Teaching English as a Second Language	4
Total Units		18

## 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



- 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

### Lower division requirement (4)

EDUC 250	Democracy and Education	4
----------	-------------------------	---

### Upper division requirements (20)

Twenty units chosen from: 20

EDUC 310	Education and Contemporary Culture
EDUC 320	Diversity in Education
EDUC 330	Education and Special Populations
EDUC 340	Social Class, Poverty, and Education
EDUC 350	History of Schooling
EDUC 360	Education for Peace and Nonviolence

Total Units 24

## 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:

- 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.

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: 28

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

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
ECON 333	Political Economy of Women: Money, Sex, Race, and Power
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People
or GSS 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) 4
ENG 321	Studies in Language and Linguistics (Language and Gender)
ENG 336	Women Writers
or GSS 336	Women Writers
FLAN 320	Masterpieces of Literature
FREN 336	Francophone Women Writers
GSS 100	Introduction to Women's Studies
GSS 101	Introduction to Masculinity Studies
GSS 103	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies
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	Womens 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
HUM 325	Perspectives on Gender
or NSCI 325	Perspectives on Gender
or SSCI 325	Perspectives on Gender
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

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

EDUC 611	Foundations of Integrative and Holistic Models of Education	4
EDUC 613	Integration and Meaning in Education	4
EDUC 615	Exploring Arts, Creativity and Sign Systems	4
EDUC 617	Exploring Integrative and Holistic Curriculum Theory	4
EDUC 619	Seminar Holistic Education	4
EDUC 621	Assessment and Research: Holistic Perspectives	4
Total Units		24

## 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)

ERDG 619	Literacy Assessment and Evaluation	4
ERDG 626	Foundations of Literacy	4
ERDG 627	Literacy and Language Processes	4
ERDG 636	Critical Approaches to a Culture of Literacy	4
ERDG 637	Basic Materials and approaches to Literacy	4
ERDG 649	Assessment and Intervention in PreK-12 Literacy	4
Total Units		24

\* **Note:** This course is the prerequisite for all courses in the program.

# Master of Arts in Education - Bilingual/Cross-Cultural Option

## Not offered in the 2015-16 Academic Year

### 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)

### Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid teaching credential, teaching experience, or departmental approval;
2. A grade point average of at least 2.5 in the last 90 quarter units and a 3.0 ("B") in all bilingual/crosscultural courses;
3. Demonstrated proficiency in Spanish;
4. Completed the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

### Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of EDUC 600 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).

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students must register for EDUC 600 and these units must be part of the required 48 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

#### Degree Requirements (48)

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 I	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 Childrens 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	
EDCI 664	Thesis/Project Design in Curriculum and Instruction	
EESL 670	Principles and Practice in TESOL	
HIST 565	Immigration and Ethnic American History	
Other courses selected in consultation with program advisor.		
Culminating Project:		
EDUC 600	Masters Degree	4
Total Units		48

## Master of Arts in Education - Curriculum and Instruction 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 (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: 12

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 640	Content Standards in Curriculum, Instruction and Assessment	
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.) 8

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	
EELB 533	Social Studies and the Arts Curriculum Pedagogy	
EELB 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 506E,F,L,M,P,S	Curriculum and Instruction in the Content Areas:	
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	
<b>Culminating Experience (2)</b>		
EDCI 663	Comprehensive Evaluation in Curriculum and Instruction	2
EDCI 999	Comprehensive Examination	0
Total Units		46

## Master of Arts in Education - Holistic and Integrative Education Option

### Not offered in the 2015-16 Academic Year

#### 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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
Cohort courses:		
EDUC 611	Foundations of Integrative and Holistic Models of Education	4
EDUC 613	Integration and Meaning in Education	4
EDUC 615	Exploring Arts, Creativity and Sign Systems	4
EDUC 617	Exploring Integrative and Holistic Curriculum Theory	4
EDUC 619	Seminar Holistic Education	4
EDUC 621	Assessment and Research: Holistic Perspectives	4

Students will be directed to register in specially designated sections of the above courses open only to teachers in the program cohort. All courses in the program are appropriate for teachers at any grade level or school setting.

Culminating Experience. Students must complete one of the categories below: 12

Project:

EDUC 600 Masters Degree

Eight units of individually selected coursework, approved by the program coordinator.

Comprehensive Examination:

EDUC 999 Comprehensive Examination

Twelve units of individually selected coursework, approved by the program coordinator.

Total Units 48

# 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 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 (46 units)

The M.A. in Education with an option in Kinesiology is designed for people with an undergraduate degree in kinesiology with a specialization in pedagogy or a closely related field, such as physical education, who have professional teaching experience in a public school or associated community agency setting. Includes preparing professionals in effective teaching behaviors, curriculum theory, and leadership skills necessary to lead school districts and community agencies in the development, implementation and evaluation of model pedagogical kinesiology programs for children, teens and young adults as well as the coordination of health-related physical education programs in public school settings and advocacy for a life-long physical activity across the life-span.

## Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A valid teaching credential, teaching experience or related experience;
2. An undergraduate major in kinesiology and physical education or related discipline;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of Kinesiology. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

## Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B"). At least eight units must be in kinesiology, and four units in education;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 605 and 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. This must be prepared in consultation with advisors in the College of Education and in the Department of Kinesiology and approved by the college, the department and the Dean of Graduate Studies.

Each student will have an advisor from the College of Education and one from the Department of Kinesiology. Dual signatures are necessary for registration for the initial quarter.

## Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
2. At least 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Six specified courses in education and seven courses in kinesiology;
5. Successful completion of the following:  
EDUC 600 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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
ESEC 506P	Curriculum and Instruction in the Content Areas: Physical Education	4
KINE 600	Graduate Seminar	2
KINE 623	Sport and Social Issues	4
KINE 624	Sport Psychology	4
KINE 630	Physical Education for Special Populations	4
KINE 670	Leadership in Physical Education	4
KINE 681	Exercise and Sport Science	4
KINE 685	Analysis of Human Movement	4
Culminating Experience:		
EDUC 600	Masters Degree	4
Total Units		46

## 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 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)

### 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;  
**Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree.  
This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

### Requirements for Graduation

1. A minimum of 48 quarter units of acceptable work, with 35 completed in residence at this university;
2. A minimum of 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of Group A or B below:
 

Group A:	
ERDG 999	Comprehensive Examination
ERDG 656	Contemporary Issues in Literacy
Group B:	
EDUC 600	Masters Degree
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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4

### Reading/Language Arts Core (32)

ERDG 619	Literacy Assessment and Evaluation	4
ERDG 626	Foundations of Literacy	4
ERDG 627	Literacy and Language Processes	4
ERDG 636	Critical Approaches to a Culture of Literacy	4
ERDG 637	Basic Materials and approaches to Literacy	4
ERDG 639	Practicum in Reading and Literacy	4
ERDG 647	Curriculum Perspectives in Literacy	4
ERDG 649	Assessment and Intervention in PreK-12 Literacy	4

### Culminating Experience (4)

Successful completion of Group A or B below	4
Group A. Comprehensive Examination Option:	
ERDG 656	Contemporary Issues in Literacy
ERDG 999	Comprehensive Examination
Group B. Master's Degree Project Option:	
EDUC 600	Masters Degree

Total Units	48
-------------	----

## 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 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)

## 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;
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;
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

The Master's Project is designed for those wishing to perform research leading to potential doctoral study. A score of 5/6 on the Analytic Writing portion of the Graduate Record Examination is a prerequisite, plus recommendation from the instructor of EESL 685. Permission to write a project must be granted 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)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4
EESL 536	Crosscultural Teaching	4
EESL 543	Listening and Speaking Methods in TESOL	4
EESL 544	Reading Methods for TESOL	4
EESL 545	Writing Methods in TESOL	4
EESL 675	Curriculum Design in TESOL	4
EESL 685	Research in TESOL	4
Four units chosen from:		4
EESL 670	Principles and Practice in TESOL	
EESL 671	Survey of Methods in Teaching English as a Foreign Language	
Four units chosen from:		4
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 655	Mentoring and Evaluating TESOL Educators	
EESL 679	Fieldwork: Teaching English to Speakers of Other Languages	
EESL 680	Practicum in Teaching English to Speakers of Other Languages (TESOL)	
Four units from A or B which will also satisfy the graduation writing requirement:		4
Group A:		
EDUC 600	Masters Degree	
Group B:		

EESL 999	Comprehensive Examination (plus four units of electives listed below if not taken previously)
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 650	Program Administration for TESOL
EESL 660	Second Language Acquisition Classroom Research
EESL 671	Survey of Methods in Teaching English as a Foreign Language
EESL 675	Curriculum Design in TESOL
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 I
ETEC 546	Computer Based Technology in Education II
ETEC 674	E-Learning Technology and Media
ETEC 676D	Advanced Topics in Instructional Technology 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

## Master of Arts in Education -Correctional & Alternative Education Option

### Not offered in the 2015-16 Academic Year

#### 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)

## Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified status follow:

1. A valid teaching credential or teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. No more than 20 quarter units may be used to demonstrate fitness to complete the program (to move from conditional to classified status).

## Advancement to Candidacy

In order to be advanced to candidacy a student must have the following:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;  
**Note:** Between the time of completing 15 and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDCA 614 and EDUC 603;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

## Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate level work, with a minimum of 35 completed in residence at this university;
2. A minimum of 23 units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. The graduation writing requirement is met upon successful completion the Master's Degree Thesis/Project;
5. Successful completion of one of the following two tracks:

### Track A. Master's Thesis/Project (8)

< >EDUC 600. Master's Degree Project 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. (C)EDCA 999. Comprehensive Examination

### 6. 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;

- 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)

### Education Core Courses (12)

EDUC 603	Effective Communication in Education	4
EDUC 605	Foundations of Education	4
EDUC 607	Introduction to Educational Research	4

### Correctional and Alternative Education Core (16)

EDCA 614	Foundations of Institutional Education: History and Literature	4
EDCA 616	Teaching the Institutional Student	4
EDCA 618	Social and Cultural Dynamics of Institutional Education	4
EDCA 620	Educational Change in Institutional Settings	4

### Electives (12)

Twelve units in the student's area of specialization, chosen in consultation with advisor. 12

### Culminating Experience (8)

Student must take one of the following two tracks:	8
Total Units	48

## Track A. Master's Thesis/Project option

EDUC 600	Masters Degree	4
Four units of electives chosen from the list below:	4	
EDCA 628	Special Education in Correctional Institutions	
EDCA 630	Alternative and Correctional Education	
EDCA 632	Career and Vocational Education in Correctional Institutions	
EDCA 634	Correctional Education Leadership	
EDCA 636	Pedagogy and Andragogy in Correctional Institutions	
EDCA 638	Organization of Correctional and Alternative Education Service Delivery	

EDCA 640	Literacy in Adult Confinement Institutions	
EDCA 642	Library Services for Alternative and Correctional Students	
EDCA 644	Pre- and Post-Release Transitions for Correctional Students	
EDCA 646	Comparative Correctional Education	
EDCA 684	Special Topics in Correctional and Alternative Education	
Total Units		8

### Track B: Comprehensive Examination Option

EDCA 999	Comprehensive Examination	0
Eight units of electives chosen from the list above.		8
Total Units		8

## 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.

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)

### 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
----------	---------------------------	---

ESTM 628	Integrating Mathematics and Science in the STEM Classroom	4
----------	---	---

## 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:	4
--	---

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 Science, Technology, Engineering and Mathematics Education Option

## Requirements (48 units)

## Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified status follow:

1. A 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. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator;
5. Satisfaction of the graduate entrance writing requirement.

## Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate level work, with a minimum of 36 completed in this program;
2. A minimum of 24 units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. The graduation writing requirement is met upon successful completion of the Master's Degree Project or Thesis, ESTM 699, or the Comprehensive Examination ESTM 999;
5. Successful completion of one of the following three tracks.

## Thesis Preparation, Presentation and Examination

The purpose of the thesis is twofold. First, it demonstrates that the student has articulated a Science, Technology, Engineering, and Mathematics Education design and development of research agenda consistent with the needs of both the professional community and the researcher or scholar. Second, it demonstrates willingness and ability to direct one's effort to completion of an appropriate culminating experience.

The student must conduct a research study, and from these efforts, write a thesis acceptable to the student's thesis committee and the Dean of Graduate Studies. The student's thesis committee shall be chaired by the major advisor and two other faculty members who are chosen by the student upon consultation with the major advisor and the graduate coordinator. One faculty member on a committee may come from another college in the university. The thesis topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended. The student shall enroll

in ESTM 699 and the students, who do not complete the thesis in the quarter they registered, must be in continuous enrollment until the completion of their thesis. The student, upon completion of the thesis, must give a public presentation of the research at ESTM 681. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

ESTM 690	STEM Education: Advanced Research	4
ESTM 699	STEM Education: Master's Thesis/Project	4

A satisfactory thesis is one which reflects original works and shows a level of competence appropriate for a master's degree. A thesis is reported in the form of a paper. A thesis will be planned in consultation with the student's thesis committee and submitted in an approved format. Students must successfully complete ESTM 690. Further information is available from the Graduate Studies Office regarding the approved format.

## Project Preparation, Presentation and Examination

The purpose of the project is twofold. First, it demonstrates that the student has articulated a Science, Technology, Engineering, and Mathematics Education design and development or research agenda consistent with the needs of both the professional community and the researcher or scholar. Second, it demonstrates willingness and ability to direct one's effort to completion of an appropriate culminating experience.

The student must implement and complete a project acceptable to the student's project committee and the Dean of Graduate Studies. The student's project committee shall be chaired by the major advisor and two other faculty members who are chosen by the student after consultation with the major advisor and the graduate coordinator. One faculty member on a committee may come from another college in the university. The project topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended. The student shall enroll in ESTM 699 and the students, who do not complete the project in the quarter they registered, must be in continuous enrollment until the completion of their project. The student, upon completion of the project, must give a public presentation of the research at ESTM 681. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

ESTM 690	STEM Education: Advanced Research	4
ESTM 699	STEM Education: Master's Thesis/Project	4

A satisfactory project is one which reflects original work and shows a level of competence appropriate for a master's degree. A project can be reported in the form of a paper and/or through other media. A project will be planned in consultation with the student's thesis committee and submitted in an approved format. Students must successfully complete ESTM 690. Further information is available from the Graduate Studies Office regarding the approved format.

## Comprehensive Written Examination

The written comprehensive examination is designed to test the student's ability to integrate the knowledge of the field of Science, Technology, Engineering, and Mathematics Education, to show critical and independent thinking, and to demonstrate mastery of the subject matter. Students may take the examination twice. Students who choose the comprehensive examination option must successfully complete eight units in the electives category with approval of an advisor. The student

shall enroll in ESTM 999 after consultation with the graduate coordinator and during their last quarter for completion of the degree.

ESTM 999	STEM Education: Comprehensive Examination	0
Eight units of electives.		8

A minimum of 36 units in courses numbered 500-600 or above must be included in the graduate program. The program may not include more than 12 quarter units in approved extension and transfer courses from other colleges or universities. California State University, San Bernardino will not consider for transfer credit course work from an institution that will not accept that work in its own advanced degree program.

## Degree Requirements (48 units)

### Core Courses (24)

ESTM 510	Perspectives of STEM Education	4
ESTM 511	Technology and Engineering Design in STEM Education	4
ESTM 512	Foundations of Research in STEM Education	4
ESTM 514	STEM Education: Technology Tools	4
ESTM 681	STEM Education: Integration Seminar II	4
ESTM 692	STEM Education: Service Learning Fieldwork	4

### Concentration (16)

Students must take one concentration. 16

### Culminating Experience (8)

Students must take one track. 8

Total Units 48

## Concentration Options

### Career and Technical Studies Concentration (16 units)

ECTS 637	Foundations of Career and Technical Studies	4
ECTS 638	Critical Issues for the Career and Technical Educator	4
ESTM 535	STEM Education: Exploration of Technology	4
Four units of electives chosen in consultation with an advisor.		4
Total Units		16

### Instructional Technology Concentration (16 units)

ESTM 535	STEM Education: Exploration of Technology	4
EETC 543	Technology and Learning I	4
EETC 644	Design and Development of Instructional Materials II	4
Four units of electives chosen in consultation with an advisor.		4
Total Units		16

### K-8 Mathematics Education Concentration (16 units)

ESTM 625	Teaching Algebra in STEM Education	4
ESTM 626	Teaching Geometry in STEM Education	4
ESTM 628	Integrating Mathematics and Science in the STEM Classroom	4
ESTM 644	Inquiry in STEM Education	4
Total Units		16



**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. 16

- a. Science and Environmental Education
- b. K-8 Mathematics Education
- c. Career and Technical Studies
- d. Instructional Technology

**Science and Environmental Education Concentration (16 units)**

ESTM 623	Teaching Physical Science in STEM Education	4
ESTM 628	Integrating Mathematics and Science in the STEM Classroom	4
ESTM 644	Inquiry in STEM Education	4
ESTM 647	Teaching Earth/Space Science in STEM Education	4
Total Units		16

**Culminating Experience Track Options****Master's Thesis option**

ESTM 690	STEM Education: Advanced Research	4
ESTM 699	STEM Education: Master's Thesis/Project	4
Total Units		8

**Master's Project option**

ESTM 690	STEM Education: Advanced Research	4
ESTM 699	STEM Education: Master's Thesis/Project	4
Total Units		8

**Comprehensive Examination Option**

ESTM 999	STEM Education: Comprehensive Examination	0
Eight units of electives from the list below, chosen in consultation with advisor.		8
Total Units		8

**Electives for the Comprehensive Examination Option****Career Technical Studies Concentration**

ECTS 501	Principles and Methods for Teaching Designated Subjects	4
ECTS 502	Instructional Support for Teaching Designated Subjects	4
ECTS 503	Contemporary Issues in Teaching Designated Subjects	4
ECTS 504	Principles of Career and Technical Education	4
ECTS 508	Organization and Structure of Career and Technical Programs	4
ECTS 509	Personnel Management in Career and Technical Programs	4
ECTS 510	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 639	Professional Competencies in Career and Technical Studies	4

ECTS 640B-D	Topics in Education	2-4
ESTM 548	STEM Education: Green Technology	4
ESTM 613	Assessment in Stem Education	4
ESTM 680	STEM Education: Integration Seminar I	4
EETEC 676D	Advanced Topics in Instructional Technology	2-8

**Instructional Technology Concentration**

ESTM 613	Assessment in Stem Education	4
ESTM 680	STEM Education: Integration Seminar I	4
EETEC 500	Foundations in Instructional Education	4
EETEC 501	Foundations of e-Learning	4
EETEC 537	Computer Based Technology in Education I	4
EETEC 541	E-Learning Design and Development	4
EETEC 544	Design and Development of Instructional Materials I	4
EETEC 546	Computer Based Technology in Education II	4
EETEC 623	Technology for Educational Leaders	4
EETEC 634	Information Systems in Education	4
EETEC 643	Technology and Learning II	4
EETEC 648	E-Learning Delivery and Evaluation	4
EETEC 674	E-Learning Technology and Media	4
EETEC 676D	Advanced Topics in Instructional Technology	2-8

**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. 8

**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 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:		20
---------------------------	--	----

EDUC 310	Education and Contemporary Culture	
EDUC 320	Diversity in Education	
EDUC 330	Education and Special Populations	
EDUC 340	Social Class, Poverty, and Education	
EDUC 350	History of Schooling	
EDUC 360	Education for Peace and Nonviolence	

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:		8
--------------------------	--	---

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:		16
----------------------------	--	----

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	
or GSS 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	
or GSS 336	Women Writers	
FLAN 320	Masterpieces of Literature	

FREN 336	Francophone Women Writers	
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	Womens 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:		4
-------------------------	--	---

HUM 325	Perspectives on Gender	
NSCI 325	Perspectives on Gender	
SSCI 325	Perspectives on Gender	

Total Units		28
-------------	--	----

## Multiple Subject Bilingual, Crosscultural, 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) (<http://www.csumentor.edu>). In preparation for admission to the basic credential program, students must attend an orientation session scheduled through the College of Education's Watson Student Services 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) to the Credentials Office, CE-102, at least one quarter prior to enrolling in credential courses. For unconditional admission to the program students must submit a completed Program Admissions File including, but not limited to:

1. Completion of application form for early fieldwork and supervised student teaching placement;
2. Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
3. Written verification of a passing score on the California Basic Educational Skills Test (CBEST);
4. Two written recommendations by persons who can address scholastic performance and suitability for teaching;
5. 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;
6. Verification of a negative tuberculin examination within the last two years;
7. 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.
  - c. 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.
8. 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.)

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 a community college or university computer course or an on-line technology skills assessment;
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	

## 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 requires:

1. Completion of Phase I coursework (EELB 313, EELB 316, EELB 317 and EELB 422) with a grade point average of 3.0 (B) and no course grade lower than a B- and no non-education course grade lower than a C (2.0);
2. Satisfactory completion of HSCI 100 and either PSYC 350 or ESPE 350;
3. **Verification of a negative tuberculin examination within the last two years;**

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 423, EELB 425, EELB 532, EELB 520B and EELB 520C) and EELB 540B (and EELB 510, EELB 534, EELB 520A and EELB 520D).

Students who fail to complete any of the following courses will be denied continuation in the program. An appeal process is available. Consult the program coordinator for details.

EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3
EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 520B	Teaching Performance Assessment Seminar: Designing Instruction Task 2	1
EELB 520C	Teaching Performance Assessment Seminar: Assessing Student Learning Task 3	1
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
EELB 532	Science/Health Curriculum and Pedagogy	4

EELB 534	Social Studies and the Arts (Primary Language) Curriculum and Pedagogy	4
EELB 540A	Supervised Student Teaching in Multiple Subject I	6
EELB 540B	Supervised Student Teaching in Multiple Subject II	6

## 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 (13)

EELB 313	Pedagogical Foundations for English Language Learners	4
EELB 316	Reading/Language Arts (Primary Language) Curriculum and Pedagogy	3
EELB 317	Educational Psychology for a Diverse Society	4
EELB 422	Classroom Organization, Management and Discipline	2

### Phase II (19)

First quarter of student teaching

EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3
EELB 532	Science/Health Curriculum and Pedagogy	4
EELB 520B	Teaching Performance Assessment Seminar: Designing Instruction Task 2	1
EELB 520C	Teaching Performance Assessment Seminar: Assessing Student Learning Task 3	1
EELB 540A	Supervised Student Teaching in Multiple Subject I	6

### Phase III (16)

Second quarter of student teaching

EELB 510	Culture and Schooling in Multiple Subject Setting	4
EELB 534	Social Studies and the Arts (Primary Language) Curriculum and Pedagogy	4
EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
EELB 540B	Supervised Student Teaching in Multiple Subject II	6
Total Units		48

## Additional Requirements

Students must successfully complete:

HUM 335	The Origin and Contemporary Role of Latino Culture (or written verification of passing CSET: Spanish Subtest V (258))	4
SPAN 415	Comparative Linguistics: Spanish/English (or written verification for passing CSET: Spanish Subtest III (147))	4
	One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):	4
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

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 College of Education's Watson Student Services Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Watson Student Services Office.

## 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 scholastic performance and suitability for teaching;
4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain the signature of the advisor. The following criteria are used to assess

the interview: oral and written English language usage, professional aptitude, personality and character;

5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through transcripts:
  - a. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted,
  - b. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-."
 

No candidate may be recommended for the credential who has received a grade of lower than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement;
7. Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Completion of a community college or university computer course or an on-line technology skills assessment;
10. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
11. Satisfactory completion of prerequisite courses:
 

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 313, EELB 315, EELB 317, EELB 510 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 (and EELB 422, EELB 423, EELB 425, and EELB 520C) and EELB 520B (and EELB 532, EELB 533 and EELB 520D). No concurrent course work should be taken beyond the required elementary education courses without permission of the program director.

Students who fail to complete the following courses will be denied continuation in the program. An appeal process is available. Consult the program director for details.

EELB 422	Classroom Organization, Management and Discipline	2
EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3
EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 532	Science/Health Curriculum and Pedagogy	4
EELB 533	Social Studies and the Arts Curriculum Pedagogy	4
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
EELB 540A	Supervised Student Teaching in Multiple Subject I	6
EELB 540B	Supervised Student Teaching in Multiple Subject II	6

### Program prerequisites (10)

Students entering the program must have successfully completed:

ENG 311	The English Language	4
EELB 301	Growth and Development in Socio-Educational Contexts (and a concurrent observation course)	6
or HD 240	Introduction to Child Development	

### Program prerequisites or corequisites (6)

Students entering the program must have successfully completed or be currently enrolled 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	

## 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)

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 510	Culture and Schooling in Multiple Subject Setting	4
EELB 520B	Teaching Performance Assessment Seminar: Designing Instruction Task 2	1

### Phase II (16)

First quarter of student teaching		
EELB 422	Classroom Organization, Management and Discipline	2
EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3
EELB 520C	Teaching Performance Assessment Seminar: Assessing Student Learning Task 3	1
EELB 540A	Supervised Student Teaching in Multiple Subject I	6

### Phase III (16)

Second quarter of student teaching		
EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
EELB 532	Science/Health Curriculum and Pedagogy	4
EELB 533	Social Studies and the Arts Curriculum Pedagogy	4
EELB 540B	Supervised Student Teaching in Multiple Subject II	6
Total Units		48

## Additional Requirements

Students must successfully complete:

- One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 

HIST 146	American Civilization	4
HIST 200	United States History to 1877	4
HIST 540	Constitutional History of the United States	4
PSCI 203	American Government	4
PSCI 410	American Constitutional Law	4
PSCI 411	The Bill of Rights	4
- 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 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 Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (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:

- Completion of an application form;
- Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
- Three written recommendations by persons who can address the scholastic performance and suitability for teaching, at least one from the current employer;
- 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 postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
  - b. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B;"  
No candidate may be recommended for the credential who has received a grade of less than "C" (2.0) in any non-education course required for the credential, such as the prerequisite courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement;
7. Documentation of 45 hours of experience in K-12 classrooms such as instructional aide or substitute teacher; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Completion of a community college or university computer course or an on-line technology skills assessment;
10. Written verification of a passing score on the California Basic Educational Skills Test (CBEST);
11. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
12. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 

HIST 146	American Civilization	4
HIST 200	United States History to 1877	4
HIST 540	Constitutional History of the United States	4
PSCI 203	American Government	4
PSCI 410	American Constitutional Law	4
PSCI 411	The Bill of Rights	4
13. Completion of a bachelor's degree;
14. Satisfactory completion of prerequisite courses:
 

ENG 311	The English Language	4
EELB 301	Growth and Development in Socio-Educational Contexts	6
or HD 240	Introduction to Child Development	
15. 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	

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)

Students entering the program must have successfully completed:		
ENG 311	The English Language	4
EELB 301	Growth and Development in Socio-Educational Contexts	6
or HD 240	Introduction to Child Development	

#### Program prerequisites or corequisites (6)

Students entering the program must have successfully completed or be currently enrolled 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	
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)

EELB 422	Classroom Organization, Management and Discipline	2
EELB 313	Pedagogical Foundations for English Language Learners	4
Three units chosen from:		3
EELB 315	Reading/Language Arts Curriculum and Pedagogy	
EELB 316	Reading/Language Arts (Primary Language) Curriculum and Pedagogy	
EELB 317	Educational Psychology for a Diverse Society	
EELB 520B	Teaching Performance Assessment Seminar: Designing Instruction Task 2	

## Admission to Supervised Intern Teaching

One quarter in advance of the time students intend to enroll in Phase II courses (EELB 422, EELB 423, EELB 425, and EELB 560A, they must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised intern teaching. (No applications are accepted in the summer quarter.)

Admission to supervised intern teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. Satisfactory completion of HSCI 100 and either ESPE 350 or PSYC 350 and Phase I course work with a grade point average of 3.0 ("B") and no course grade lower than "B-;"

3. Verification that applicant holds an internship credential.

All course work taken at another college, or more than seven years ago, is subject to approval by the Director of the Multiple Subject Credential Program. No more than 14 units of the credential program may be transferred. Student/Intern teaching is never transferable.

The intern is employed full time in a teaching assignment in an approved cooperating school district while enrolled in courses at CSUSB. The study plan is as follows:

#### Phase II (19)

First quarter of supervised intern teaching		
EELB 423	Mathematics Curriculum and Pedagogy	4
EELB 425	Literacy and Second Language Acquisition for the Intermediate Reader and Beyond	3
EELB 510	Culture and Schooling in Multiple Subject Setting	4
EELB 560A	Supervised Intern Teaching in Multiple Subject I	8

#### Phase III (14)

Second quarter of supervised intern teaching		
EELB 520A	Teaching Performance Assessment Seminar: Subject Specific Pedagogy Task 1	1
EELB 520C	Teaching Performance Assessment Seminar: Assessing Student Learning Task 3	1
EELB 532	Science/Health Curriculum and Pedagogy	4
EELB 560B	Supervised Intern Teaching in Multiple Subject II	8

#### Phase IV (13)

Third quarter of supervised intern teaching		
EELB 520D	Teaching Performance Assessment Seminar: Culminating Teaching Experience Task 4	1
Four units chosen from:		4
EELB 533	Social Studies and the Arts Curriculum Pedagogy	
EELB 534	Social Studies and the Arts (Primary Language) Curriculum and Pedagogy	
EELB 560C	Supervised Intern Teaching in Multiple Subject III	8
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:

HUM 335	The Origin and Contemporary Role of Latino Culture	4
SPAN 415	Comparative Linguistics: Spanish/English (This course has prerequisites.)	4

*For Multiple Subject and Multiple Subject BCLAD interns:*

1. The Reading Instruction Competence Assessment (RICA) exam with a passing score.
2. The teacher performance assessment with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a 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.

## 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)

#### Level I: Reading and Literacy Certificate (24)

ERDG 619	Literacy Assessment and Evaluation	4
ERDG 626	Foundations of Literacy	4
ERDG 627	Literacy and Language Processes	4
ERDG 636	Critical Approaches to a Culture of Literacy	4
ERDG 637	Basic Materials and approaches to Literacy	4
ERDG 639	Practicum in Reading and Literacy	4

#### Level I: to be taken upon completion of all courses in Level I (24)



ERDG 646	Socio-psycholinguistics and Literacy	4
ERDG 647	Curriculum Perspectives in Literacy	4
ERDG 649	Assessment and Intervention in PreK-12 Literacy	4
ERDG 656	Contemporary Issues in Literacy	4
ERDG 657	Leadership Roles in Reading and Literacy	4
ERDG 659	Field Work for the Reading and Literacy Specialists	4
Total Units		48

## Single Subject - Intern Track 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 (56 units)

The single subject internship is an alternate program for those student teachers who have been placed in an employed setting. This is a five-quarter program that begins in the Fall or Winter Quarter.

### Admission to the Program and Student Teaching

In addition to the general admission requirements for the university, students must meet the following requirements prior to enrolling in the student teaching track:

1. Successfully complete the California Basic Educational Skills Test (CBEST);
2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program.
3. Successfully complete the U. S. Constitution requirement, CPR examination and be employed in a district that has an internship contract with the Division of Teacher Education.

### Admission to the Program

Interns must turn in a Program Application File (PAF) with all the information to the Credentials Office, CE-102. Candidates will not be considered until all the following information is provided:

1. Two letters from faculty members in the student's major department and at least one from a principal or teacher who can attest to the applicant's teaching skills in classroom settings;
2. Meeting with education advisor and signed advising form or attend a program advisory meeting to determine requirements of the program;
3. Verification of a negative 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 CCTC waiver program or passing the California Subject Examinations for Teachers (CSET), and/or the Single Subject Assessment for Teaching (SSAT) in the content area in which the candidate is planning to teach.
5. Completion of one of the following approved subject matter preparation programs within one of these majors at this university. Note: A list of the required grade point averages for each subject matter area is available from the Credentials Office and the Teacher Education Office.

Single Subject Credential	Degree Major
Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or B.A. French
Health Science	B.S. Health Sciences
Foundational Mathematics/ Mathematics	B.A. Mathematics B.S. Mathematics
Music	B.A. Music (Music Education)
Physical Education	B.S. Kinesiology
Sciences	B.A. in the Sciences B.S. in the Sciences
Social Science	B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

OR

Completion of the CSET (California Subject Examination for Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach;

6. Submit passage of the U.S. Constitution requirement and the CPR examination;
7. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 41 or better on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
8. Submission of evidence that the applicant has passed the California Basic Educational Skills Test (CBEST);
9. Interns must be employed in a school district or school site that has an internship contract with the College of Education;
10. In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education.

All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching or internship teaching is never transferable. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.

Each applicant is reviewed in terms of all of the above criteria. In addition, internship teaching for the preliminary credential is a full-time assignment for five quarters that only begins in the fall, winter or spring quarters. No concurrent course work should be taken beyond the required program courses without permission from the program coordinator.

Students who fail to successfully complete any aspect of the program will be denied continuation in the program. Students must continue to be employed in a school district that has an internship contract agreement with the Teacher Education Office in their content area for two years. An appeal process is available. Consult the Teacher Education Office for details.

**First Year**

**First Quarter**

Foundational Theories of Secondary Education Requirements for Internship Program

ESEC 405	Introduction to Secondary School Culture	4			
ESEC 407	Secondary School Teaching	4			
ESEC 555	Internship Seminar I	2			

**Second Quarter**

ESEC 410	Adolescent Development and Learning	4			
ESEC 413	Language Interaction in the Classroom	4			

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			
ESEC 506M	Curriculum and Instruction in the Content Areas: Mathematics	4			

ESEC 506P	Curriculum and Instruction in the Content Areas: Physical Education	4			
ESEC 506S	Curriculum and Instruction in the Content Areas: Social Sciences	4			
ESEC 570A	Intern Supervision I	6			
<b>Third Quarter</b>					
ESEC 417	Educational Psychology: Instructional Theory, Assessment and Classroom Management	4			
ESEC 419	Literacy Across the Curriculum	4			
ESEC 556	Internship Seminar II	2			
<b>Second Year</b>					
<b>First Quarter</b>					
Implementation of Reflection on Instruction					
Admittance to the second year will be satisfactory completion of the first year of the program.					
ESEC 512	Assessment Seminar: Designing Instruction	2			
ESEC 570B	Intern Supervision II	6			
<b>Second Quarter</b>					
Students must successfully pass ESEC 512 before enrolling in these second quarter classes.					
ESEC 513	Assessment Seminar: Assessment Learning	2			
ESEC 514	Assessment Seminar: Culminating Teaching Experience	2			
ESEC 570C	Intern Supervision III	6			
					Total Units: 56

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.

## Single Subject - Student Teaching Track 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)

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 the program courses. They can only repeat a total of two courses in the program.
  - b. If necessary, written verification of registration for or passage of subject matter competence in the appropriate single subject credential area.  
No candidate may be recommended for the credential who has received a grade less than "C" (2.0) in any other course required for the credential, such as health science courses.
8. Complete A or B below:
  - a. Completion of one of the following approved subject matter preparation programs or these majors at this university:
 

Single Subject Credential	Degree Major
Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or B.A. French
Foundational Mathematics	B.A. Mathematics
Mathematics	B.S. Mathematics
Music	B.A. Music (Music Education)
Physical Education	B.S. Kinesiology
Sciences	B.A. in the Sciences B.S. in the Sciences
Social Science	B.A. Social Sciences

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.

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
ESEC 506M	Curriculum and Instruction in the Content Areas: Mathematics	4
ESEC 506P	Curriculum and Instruction in the Content Areas: Physical Education	4
ESEC 506S	Curriculum and Instruction in the Content Areas: Social Sciences	4
ESEC 512	Assessment Seminar: Designing Instruction	2
ESEC 550B	Student Teaching II	4
ESEC 413	Language Interaction in the Classroom	4
ESEC 417	Educational Psychology: Instructional Theory, Assessment and Classroom Management	4
ESEC 550C	Student Teaching III	8
ESEC 602	Special Topics in Secondary Education	2
Total Units:		48

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.

### Credential Requirements for Student Teaching One Year Program

Once admission to the program has been granted and program requirements have been successfully completed, students may enroll in the following courses. Students must successfully complete all the courses in each quarter before enrolling in subsequent quarters.

First Quarter	Units
Foundational Theories of Secondary Education ESEC 405	Introduction to Secondary School Culture 4
ESEC 407	Secondary School Teaching 4
ESEC 410	Adolescent Development and Learning 4
ESEC 550A	Student Teaching Experience 2
(These courses must be taken concurrently)	
<b>Second Quarter</b>	
Classroom Perspectives ESEC 413	Language Interaction in the Classroom 4
ESEC 417	Educational Psychology: Instructional Theory, Assessment and Classroom Management 4
Select one of the following ESEC 506 courses: ESEC 506E	Curriculum and Instruction in the Content Areas: English 4

### Credential Requirements for Student Teaching Two Year Program

Once admission to the program has been granted and all program requirements have successfully been completed, students may enroll in the following courses. Students must successfully complete all the

courses in each quarter before enrolling in subsequent quarters and Subject Matter Competency.

## Foundational Theories of Secondary Education and Classroom Perspectives

First Quarter		Units
ESEC 405	Introduction to Secondary School Culture	4
ESEC 410	Adolescent Development and Learning	4
<b>Second Quarter</b>		
ESEC 407	Secondary School Teaching	4
ESEC 413	Language Interaction in the Classroom	4
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
ESEC 506M	Curriculum and Instruction in the Content Areas: Mathematics	4
ESEC 506P	Curriculum and Instruction in the Content Areas: Physical Education	4
ESEC 506S	Curriculum and Instruction in the Content Areas: Social Sciences	4

Third Quarter		Units
ESEC 417	Educational Psychology: Instructional Theory, Assessment and Classroom Management	4
ESEC 419	Literacy Across the Curriculum	4
ESEC 550A	Student Teaching Experience	2
<b>Fourth Quarter</b>		
ESEC 512	Assessment Seminar: Designing Instruction	2
ESEC 550B	Student Teaching II	4
ESEC 602	Special Topics in Secondary Education	2
<b>Fifth Quarter</b>		
ESEC 514	Assessment Seminar: Culminating Teaching Experience	2
ESEC 550C	Student Teaching III	8
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.

## College of Natural Sciences

### College of Natural Sciences

Kirsty Fleming, Dean  
Peter Williams, Associate Dean

Biological Sciences Building, Room 107  
(909) 537-5300 College of Natural Sciences website (<http://nsci.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

### Department of Biology

Biological Sciences Building, Room 302  
(909) 537-5305 Department of Biology website (<http://biology.csusb.edu>)

#### 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:

ASTR 103	Descriptive Astronomy	5
GEOL 101	Introductory Geology	5
GEOL 250	Historical Geology	5

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required, or the specific requirements of the single subject teaching credential in science program, See Page 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 genomes, DNA microarray chips, two-hybrid experiments, and tandem mass spectrometry.

There are three different approaches to bioinformatics:

1. Tool building. Creating new programs and methods for analyzing and organizing data.
2. Tool using. Using existing programs and data to answer biologically interesting questions.
3. Tool maintenance. Setting up databases, translating biologists' questions into ones that programs can answer, keeping the tools working and the databases up to date.

The main goal of the degree is to prepare the students for graduate studies in bioinformatics. A secondary goal is to provide the students with very relevant bioinformatics skills that will be useful for Research and Development in the growing biotechnology industries.

The degree is jointly administered by the Department of Biology, the Department of Chemistry and Biochemistry, and the School of Computer Science and Engineering. The program is housed in the School of Computer Science and Engineering.

## 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  
B.A. 1994, Ph.D. 2003, Harvard University, 2003

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  
B.A. 1981, M.A. 1983, Ph.D. 1987, University of California, Los Angeles

Kimberlyn Williams, Professor  
B.A. 1979, University of California, Davis  
Ph.D. 1987, Stanford University

## Emeriti

Klaus Brasch, Professor

Dalton Harrington, Professor

Sarojam Mankau, Professor

Alexander Sokoloff, Professor

Ruth Wilson, Professor

## Undergraduate Degrees

### Bachelor of Arts

- Biology (p. 548)
- Biology - Integrated Teaching Track (p. 548)
- Biology - Pre-Med Option (p. 549)

### Bachelor of Science

- Bioinformatics (p. 550)
- Biology (p. 551)
  - Ecology and Evolution Option (p. 551)
  - Pre-Med Option (p. 552)
  - Doctor of Osteopathic Medicine Articulation (p. 553)

## Graduate Degree

- Master of Science in Biology (p. 554)

## Minor

- Biology (p. 556)

## Certificate Program

- Biotechnology (p. 556)

## 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 (GE=B2)

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 Studies in Biology. 1 Unit.**

Prerequisites: consent of instructor

Investigation, research, or study of a selected topic, the topic title to be specified in advance. May repeat for credit as topics change.

**BIOL 295B. Special Studies in Biology. 2 Units.**

Prerequisites: consent of instructor

Investigation, research, or study of a selected topic, the topic title to be specified in advance. May repeat for credit as topics change.

**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, 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. 5 Units.**

Prerequisites: BIOL 300 with a grade of C or better  
The evolution, ecology, physiology and anatomy of invertebrate phyla with emphasis on phylogenetic changes. Four hours lecture and three 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 and ethics. 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 or 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 postbaccalaureate 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 with a grade of C or better

Introductory 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. 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.).

**BIOL 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.).

**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: BIOL 573

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, 695B and 695C. The course may be taken up to three times for the maximum number of units specified in each degree track. Graded credit/no credit.

**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, 695B and 695C. The course may be taken up to three times for the maximum number of units specified in each degree track. Graded credit/no credit.

**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 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 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 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.

### **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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
Organic chemistry		
A minimum of nine units chosen from Group A or B below:		9-15
Group A:		
CHEM 221A	Organic Chemistry I Lecture	
CHEM 222A	Organic Chemistry II Lecture	

CHEM 223A	Organic Chemistry III Lecture	
Group B:		
CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	
Physics		
A minimum of thirteen units chosen from Group A or B below:		13-15
Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	
<b>Upper-division requirements (41)</b>		
BIOL 300	Cell Physiology	5
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 450	Ecology	5
or BIOL 455	Marine Biology and Ecology	
BIOL 591	Biology Seminar	1
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:		20
Group A:		
BIOL 319	Local Flora	
BIOL 354	Biology of Higher Plants	
BIOL 431	Comparative Plant Physiology	
Group B:		
BIOL 320	Microorganisms	
BIOL 323	Human Anatomy for Biology Majors	
BIOL 324	Human Physiology for Biology Majors	
BIOL 331	Biology of Invertebrates	
BIOL 335	Entomology	
BIOL 340	Comparative Embryology	
BIOL 342	Biology of Chordates	
BIOL 371	Parasitology	
BIOL 420	Medical Microbiology	
BIOL 424	Comparative Animal Physiology	
BIOL 440	Principles of Development	
BIOL 524	Advanced Vertebrate Morphology	
BIOL 573	Immunology	
Total Units		94-102

## 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****Lower-division requirements (53-61)**

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6

Organic chemistry

A minimum of nine units chosen from Group A or B below: 9-15

Group A:

CHEM 221A Organic Chemistry I Lecture

CHEM 222A Organic Chemistry II Lecture

CHEM 223A Organic Chemistry III Lecture

Group B:

CHEM 321 Principles of Organic Chemistry I

CHEM 322 Principles of Organic Chemistry II

CHEM 323	Principles of Organic Chemistry III	
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	
A minimum of thirteen units chosen from Group A or B below:		13-15

Group A:

PHYS 121 Basic Concepts of Physics I

PHYS 122 Basic Concepts of Physics II

PHYS 123 Basic Concepts of Physics III

Group B:

PHYS 221 General Physics I

PHYS 222 General Physics II

PHYS 223 General Physics III

**Upper-division requirements (44-45)**

ASTR 311	A Cosmic Perspective of Earth	5
or GEOL 309	Earth: The Blue Planet	
BIOL 300	Cell Physiology	5
BIOL 321	Evolution	4
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 575F	Internship in Biology: Science Education	2
BIOL 450	Ecology	5
or BIOL 455	Marine Biology and Ecology	
BIOL 319	Local Flora	5-6
or BIOL 354	Biology of Higher Plants	
BIOL 323	Human Anatomy for Biology Majors	6
or BIOL 342	Biology of Chordates	
BIOL 597	Directed Study in Science Education (repeat for additional credit)	2

**Education Courses (48)**

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
ESEC 506L	Curriculum and Instruction in the Content Areas: Life and Physical Science	4
ESEC 550A	Student Teaching Experience	2
ESEC 512 & ESEC 550B	Assessment Seminar: Designing Instruction and Student Teaching II	6
ESEC 513 & ESEC 514	Assessment Seminar: Assessment Learning and Assessment Seminar: Culminating Teaching Experience	4
ESEC 550C	Student Teaching III	8

Total Units

145-154

**Bachelor of Arts in Biology - Pre-Med Option****Requirements (97-99 units)****Total units required for graduation: 180**

The pre-med option will

1. satisfy the requirements for the B.A. in Biology;
2. satisfy the minimum requirements for entry to most medical schools; and
3. provide additional background courses which will improve preparation for medical school.

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

## Requirements for the B.A. in Biology - Pre-Med Option

### Lower-division requirements (56-58)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
Organic Chemistry		
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
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	

A minimum of thirteen units, chosen from Group A or B below: 13-15

#### Group A:

PHYS 121	Basic Concepts of Physics I
PHYS 122	Basic Concepts of Physics II
PHYS 123	Basic Concepts of Physics III

#### Group B:

PHYS 221	General Physics I
PHYS 222	General Physics II
PHYS 223	General Physics III

### Upper-division requirements (41)

BIOL 300	Cell Physiology	5
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 450	Ecology	5
or BIOL 455	Marine Biology and Ecology	
BIOL 591	Biology Seminar	1

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: 20

#### Group A:

BIOL 319	Local Flora
BIOL 354	Biology of Higher Plants
BIOL 431	Comparative Plant Physiology

#### Group B:

BIOL 320	Microorganisms
BIOL 323	Human Anatomy for Biology Majors
BIOL 324	Human Physiology for Biology Majors
BIOL 342	Biology of Chordates
BIOL 371	Parasitology
BIOL 420	Medical Microbiology
BIOL 424	Comparative Animal Physiology
BIOL 440	Principles of Development
BIOL 524	Advanced Vertebrate Morphology
BIOL 573	Immunology

#### Group C:

BIOL 380	Medical and Economic Botany
BIOL 522	Population Genetics
BIOL 572	Virology
BIOL 576	Endocrinology
BIOL 580	Neurobiology

Additional courses which will be useful for medical school preparation include:

CHEM 436A	Biochemistry I
CHEM 437A	Biochemistry II
CHEM 438A	Biochemistry III

Total Units

97-99

## 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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
CHEM 221A	Organic Chemistry I Lecture	3
CHEM 222A	Organic Chemistry II Lecture	3
CHEM 223A	Organic Chemistry III Lecture	3
CSE 122	Bioinformatics	2
CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 262	Applied Statistics	4
MATH 272	Discrete Mathematics	4
PHIL 191	Introduction to Ethics	4

### Upper-division requirements (52)

BIOL 300	Cell Physiology	5
BIOL 400	Molecular Biology	5
A minimum of five units chosen from:		5
BIOL 423	Genetics	
BIOL 424	Comparative Animal Physiology	
BIOL 431	Comparative Plant Physiology	
BIOL 440	Principles of Development	
BIOL 450	Ecology	
BIOL 455	Marine Biology and Ecology	
CHEM 436A	Biochemistry I	4
CHEM 436B	Biochemistry I	1
CSE 330	Data Structures	4
CSE 431	Algorithm Analysis	4
CSE 500	Introduction to Formal Languages and Automata	4
CSE 535	Numerical Computation	4
CSE 550	Advanced Bioinformatics I: Sequence Analysis	4
CSE 516	Machine Learning	4
or CSE 551	Advanced Bioinformatics II: Numerical Modeling	
CSE 572	Database Systems	4
MATH 372	Combinatorics	4
Total Units		118

## 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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6

Organic chemistry

A minimum of twelve units chosen from Group A or B below: 12-15

Group A:

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	

Group B:

CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	

Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.

MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	

A minimum of thirteen units chosen from Group A or B below: 13-15

Group A:

PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	

Group B:

PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	

#### Upper-division requirements (56-57)

BIOL 300	Cell Physiology	5
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 450	Ecology	5
or BIOL 455	Marine Biology and Ecology	

Either Group 1 or 2 below: 12

Group 1:

BIOL 354	Biology of Higher Plants	
BIOL 424	Comparative Animal Physiology	

Group 2:

BIOL 431	Comparative Plant Physiology	
BIOL 331	Biology of Invertebrates	
or BIOL 342	Biology of Chordates	
BIOL 591	Biology Seminar	1

A minimum of 19 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). 19

Chemistry

CHEM 345	Modern Quantitative Analysis	4-5
or CHEM 436A	Biochemistry I	

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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5



CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
Organic chemistry		
A minimum of twelve units chosen from Group A or B below:		12-15
Group A:		
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	
Group B:		
CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	
Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.		
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	
A minimum of thirteen units chosen from Group A or B below:		13-15
Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	
<b>Upper-division requirements (60-64)</b>		
BIOL 300	Cell Physiology	5
BIOL 321	Evolution	4
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 450	Ecology	5
BIOL 514	Conservation Biology	2-4
or BIOL 590M	Senior Seminar: Conservation Biology	
BIOL 591	Biology Seminar	1
Either Group 1 or 2 below:		12
Group 1:		
BIOL 354	Biology of Higher Plants	
BIOL 424	Comparative Animal Physiology	
Group 2:		
BIOL 431	Comparative Plant Physiology	
BIOL 331	Biology of Invertebrates	
or BIOL 342	Biology of Chordates	
One course (4-6 units) chosen from the following list:		4-6
BIOL 319	Local Flora	
BIOL 525	Vertebrate Field Biology	
BIOL 455	Marine Biology and Ecology	
BIOL 522	Population Genetics	

BIOL 565	Physiological Ecology	5
BIOL 505	Biostatistics	5
or PSYC 410	Advanced Psychological Statistics	

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.		12
--	--	----

Total Units 116-125

## 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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
Organic Chemistry		
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
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	

A minimum of thirteen units, chosen from Group A or B below: 13-15

Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	

PHYS 222	General Physics II	
PHYS 223	General Physics III	
<b>Upper-division requirements (56-57)</b>		
BIOL 300	Cell Physiology	5
BIOL 400	Molecular Biology	5
BIOL 423	Genetics	5
BIOL 450	Ecology	5
or BIOL 455	Marine Biology and Ecology	
Twelve units chosen from Group 1 or Group 2:		12
Group 1:		
BIOL 354	Biology of Higher Plants	
BIOL 424	Comparative Animal Physiology	
Group 2:		
BIOL 431	Comparative Plant Physiology	
BIOL 331	Biology of Invertebrates	
or BIOL 342	Biology of Chordates	
CHEM 345	Modern Quantitative Analysis	4-5
or CHEM 436A	Biochemistry I	
BIOL 591	Biology Seminar	1
A minimum of 19 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). Suggested courses which may be useful for medical school preparation include:		19
BIOL 320	Microorganisms	
BIOL 323	Human Anatomy for Biology Majors	
BIOL 324	Human Physiology for Biology Majors	
BIOL 371	Parasitology	
BIOL 380	Medical and Economic Botany	
BIOL 420	Medical Microbiology	
BIOL 572	Virology	
BIOL 573	Immunology	
BIOL 576	Endocrinology	
BIOL 580	Neurobiology	
Additional courses which will be useful for medical school preparation include:		
CHEM 436B	Biochemistry I	
CHEM 437A	Biochemistry II	
CHEM 438A	Biochemistry III	
Total Units		112-114

## Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation

### 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)

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6

### Organic Chemistry

A minimum of twelve units, chosen from Group A or B below: 12-15

Group A:		
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	
Group B:		
CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	

MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	

A minimum of thirteen units, chosen from Group A or B below: 13-15

Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	

### Upper-division requirements (60)

BIOL 300	Cell Physiology	5
BIOL 320	Microorganisms	6
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

## Master of Science in Biology

### Requirements (45 units)

The Master of Science in Biology is designed to provide the flexibility required to develop specific course programs and acceptable thesis research proposals based upon the individual graduate student's interests and background. The general goal of the program is to provide the student with opportunity for improvement of competence, development of the ability to continue self-directed study, and development of intellectual responsibility in preparation for professional leadership in biology.

The graduate program in biology provides training in various concentrations of current research interest in molecular and population genetics, physiology, immunology, molecular biology, population and systematic ecology, neurobiology, plant and animal developmental biology, cellular biology, vertebrate morphology and paleontology, microbiology, parasitology, cancer biology and science education.

### Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in biology or associated fields (e.g., microbiology, botany, zoology or chemistry with at least 30 quarter units of upper-division biology course work);
3. One year each of laboratory courses in: general biology, general chemistry, organic chemistry and physics;
4. One full-term course in basic calculus or methods in calculus;
5. Upper division courses in cellular or molecular biology, genetics, ecology, and organismal biology. Students lacking one of these courses may be admitted to the program, but must make up the deficiency in their first year. Students will not be permitted to enroll in

600-level biology courses without the appropriate prerequisite course. Graduate-level courses may have additional prerequisites;

6. A cumulative undergraduate grade point average of at least 3.0 ("B") in all courses used for credit in the major;
7. Completion of the graduate entrance writing requirement;
8. Submission of scores from the Graduate Record Examination (GRE) to the Department of Biology Graduate Committee;
9. Submission to the Department of Biology Graduate Committee a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate training program, potential area of research and possible advisor (for thesis option) and professional goals following completion of the M.S.;
10. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the M.S. program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.

Application deadlines for fall, winter and spring quarter admission are May 1, October 1, and January 15, respectively.

### Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology;
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. Received recommendations for advancement to candidacy from the major advisor and 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;
5. The graduation writing requirement is met upon successful completion of the 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 Department of Biology Graduate Committee consists of the graduate program coordinator and two or more Biology 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 will consult with the graduate program coordinator for academic advising until the student has been accepted by a major advisor. Students are responsible for contacting potential major advisors. Students may not advance to candidacy until they are accepted by a major advisor. The major advisor in consultation with the student will develop a program of specific courses and an acceptable thesis research proposal based on the student's interests, abilities and preparation. The major advisor will direct the thesis research. The program of courses and the thesis topic, as well as any subsequent modification of these, are subject to approval by the Department of Biology Graduate Committee and the Dean of Graduate Studies.

Students currently enrolled in the graduate program wishing to take courses off campus towards their graduate degree must petition the Department of Biology for approval through the graduate program coordinator and the Graduate Committee, otherwise the course may not be accepted as part of the program. 1000- to 9999-level extension courses are not applicable to the graduate program.

300-level courses taken will be accepted only by written approval of the department. 300-level courses are seen as support courses and therefore are not generally applicable to the graduate degree program.

Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.

Repeat of courses require approval of the Department of Biology Graduate Committee and may be granted for serious and compelling reasons.

## Proposing and Defending the Thesis

Students must conduct an original research study and from these efforts, write a thesis acceptable to the thesis committee, the department Graduate Committee, and the Dean of Graduate Studies. Early in their graduate studies, students in consultation with their major advisor, will select a thesis committee including the major advisor, and at least two other faculty from the Biology Department. The student is responsible for setting regular meetings with the thesis committee members. Once a research plan has been formed, the student will provide a formal written and oral proposal of their planned research to the thesis committee. Upon completion of the original research and the thesis, a final oral examination consisting primarily of discussion of the thesis and the thesis research is required. Official examiners will include the thesis committee and other members of the academic community. Successful completion of the final oral examination includes acceptance of the thesis by the thesis committee.

The student should consult the Department of Biology for details on preparing the thesis manuscript.

## Degree Requirements (45 units)

BIOL 601	Teaching Assistant Training in Biology	2
BIOL 690	Graduate Seminar in Biology	2
BIOL 692B	Graduate Research Methods in Biology	2
BIOL 699A	Thesis Research and Thesis I	3
BIOL 699B	Thesis Research and Thesis II	3
BIOL 699C	Thesis Research and Thesis III	3
Five of the 600-level courses in Biology listed under "Course Categories" A, B, and C. At least one of these must be taken from each of the three categories (minimum of 10 units.) Course categories are:		10

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 20 at the 600-, 500- and 400-levels. A minimum of 7 units of electives must be taken at the 500-600 level (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
-------------	----

## Course Categories

### A. Cellular and Molecular Biology

BIOL 502	Genetic Engineering
BIOL 528	Concepts of Molecular Genetics
BIOL 572	Virology
BIOL 590A	Senior Seminar: Molecular
BIOL 590C	Senior Seminar: Cellular
BIOL 590I	Senior Seminar: Microbiology
BIOL 592	Recombinant DNA Techniques
BIOL 600	Advanced Topics in Molecular Biology
BIOL 605	Advanced Topics in Cell Biology
BIOL 651	Advanced Topics in Molecular Genetics
BIOL 678	Advanced Topics in Microbiology

### B. Physiology and Organismal Biology

BIOL 424	Comparative Animal Physiology
BIOL 431	Comparative Plant Physiology
BIOL 440	Principles of Development
BIOL 524	Advanced Vertebrate Morphology
BIOL 576	Endocrinology
BIOL 573	Immunology
BIOL 580	Neurobiology
BIOL 590D	Senior Seminar: Physiology
BIOL 590F	Senior Seminar: Bioethics
BIOL 590J	Senior Seminar: Zoology
BIOL 590K	Senior Seminar: Botany
BIOL 620	Advanced Topics in Plant Biology
BIOL 622	Advanced Topics in Zoology
BIOL 624	Advanced Topics in Physiology
BIOL 660	Advanced Topics in Development
BIOL 675	Advanced Topics in Parasitology

BIOL 677	Advanced Topics in Immunology
<b>C. Ecology and Evolutionary Biology</b>	
BIOL 514	Conservation Biology
BIOL 515	Global Change Biology
BIOL 522	Population Genetics
BIOL 565	Physiological Ecology
BIOL 590B	Senior Seminar: Biosystematics
BIOL 590E	Senior Seminar: Ecology
BIOL 590G	Senior Seminar: Genetics
BIOL 590H	Senior Seminar: Evolution
BIOL 590M	Senior Seminar: Conservation Biology
BIOL 650	Advanced Topics in Genetics
BIOL 664	Biosystematics
BIOL 670	Advanced Topics in Ecology
BIOL 680	Advanced Topics in Evolution

## 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
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:		4
MATH 120	Pre-Calculus Mathematics	
MATH 192	Methods of Calculus	
MATH 211	Basic Concepts of Calculus	
Physics		
Five units chosen from:		5
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
<b>Total Units</b>		<b>56</b>

## 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
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.

Total Units	0
-------------	---

## Certificate Requirements

BIOL 400	Molecular Biology	5
BIOL 502	Genetic Engineering	4
BIOL 592	Recombinant DNA Techniques	4
A minimum of 15 units chosen from:		15
BIOL 320	Microorganisms	
BIOL 573	Immunology	
BIOL 575A	Internship in Biology: General	
BIOL 575B	Internship in Biology: Pre-Health	
BIOL 575C	Internship in Biology; Biotechnology	
BIOL 575D	Internship in Biology: Wildlife Biology	
BIOL 575E	Internship in Biology: Botany	
BIOL 575F	Internship in Biology: Science Education	
BIOL 575G	Internship in Biology: Museum Science	
BIOL 590A	Senior Seminar: Molecular	
BIOL 596A-F	Independent Research	
CHEM 436A	Biochemistry I	
CHEM 436B	Biochemistry I	
CHEM 437A	Biochemistry II	
CHEM 437B	Biochemistry II	
CHEM 438A	Biochemistry III	

CHEM 438B Biochemistry III

---

Total Units

28

## Department of Chemistry and Biochemistry

*Certified 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 biology, physics, health science, and geology;
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" in CHEM 595 or another demonstration of ability to do independent work in chemistry, for example an oral or poster presentation at a conference or symposium.

### 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

B.Sc. 1979, Ph.D. 1982, University of Sheffield, England

Shumei Yang, Professor

B.S. 1982, Zhengzhou University, P.R. China

Ph.D. 1991, Iowa State University

Renwu Zhang, Assistant Professor

B.S. 1988, Anhui Normal University

M.S. 1993, University of Science China

Ph.D. 2002, University of Missouri

## Emeriti

John H. Craig, Professor

Lee H. Kalbus, Professor

Kenneth A. Mantei, Professor

Dennis M. Pederson, Professor

## Undergraduate Degrees

### Bachelor of Arts

- Chemistry
  - Chemistry (p. 566)
  - Biochemistry Option (p. 565)
  - Integrated Teaching Track (p. 566)

### Bachelor of Science

- Bioinformatics (p. 550)
- Chemistry
  - ACS Certified Option (p. 568)
  - Biochemistry Option (p. 568)

### Graduate Degree

- Master of Science in Earth and Environmental Sciences (p. 569) with concentrations in:
  - Professional Science Masters
  - Geology

### Minor

- Chemistry (p. 571)

## 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.

ASTR 103	Descriptive Astronomy	5
ASTR 311	A Cosmic Perspective of Earth	5
or GEOL 309	Earth: The Blue Planet	
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
NSCI 300	Science and Technology	4

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required, or the specific requirements of the single subject teaching credential in science program, 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 323). 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

Lecture. 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.

**CHEM 321. Principles of Organic Chemistry I. 5 Units.**

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. Four 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 bachelors 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 bachelors 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 bachelors 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 bachelors 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 bachelors 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 695D. 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)**

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4

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

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
Organic Chemistry. A minimum of 12 units chosen from:		12
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	

Note: Organic Chemistry requirement may be met by taking CHEM 321, CHEM 322, and CHEM 323.

#### Upper-division requirements (38-40)

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
CHEM 438A	Biochemistry III	3
CHEM 438B	Biochemistry III	1
Ten units chosen from Group A or B below:		10

#### Group A:

CHEM 451 Physical Chemistry for Biochemists I

CHEM 452 Physical Chemistry for Biochemists II

#### Group B:

CHEM 455 Physical Chemistry I

CHEM 456 Physical Chemistry II

CHEM 470	Bioinorganic Chemistry	3-5
or CHEM 475	Inorganic Chemistry	
CHEM 590A	Chemistry Seminar I	1
CHEM 590B	Chemistry Seminar II	1
BIOL 300	Cell Physiology	5

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)

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4

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

PHYS 222 General Physics II

PHYS 223 General Physics III

#### Biological science

BIOL 100 Topics in Biology 5

or BIOL 200 Biology of the Cell

#### Upper-division requirements (41)

CHEM 321 Principles of Organic Chemistry I 5

CHEM 322 Principles of Organic Chemistry II 5

CHEM 323 Principles of Organic Chemistry III 5

Note: Subject to departmental approval the organic chemistry requirement may be met with the following:

CHEM 221A Organic Chemistry I Lecture

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 455 Physical Chemistry I 5

CHEM 456 Physical Chemistry II 5

CHEM 475 Inorganic Chemistry 5

CHEM 590A Chemistry Seminar I 1

CHEM 590B Chemistry Seminar II 1

Four additional upper-division units in chemistry. 4

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.

**Lower-division requirements (49-51)**

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:		13-15

## 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

## 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

**Upper-division requirements (30)**

Four units chosen from:		4
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	
CHEM 345	Modern Quantitative Analysis	5
Ten units chosen from:		10
Sequence A:		
CHEM 455	Physical Chemistry I	
CHEM 456	Physical Chemistry II	
Sequence B:		
CHEM 451	Physical Chemistry for Biochemists I	
CHEM 452	Physical Chemistry for Biochemists II	
CHEM 475	Inorganic Chemistry	5
CHEM 590A	Chemistry Seminar I	1
CHEM 590B	Chemistry Seminar II	1
CHEM 597	Directed Study in Science Education (repeat for additional credit)	4

**Education Courses (46)**

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
ESEC 506L	Curriculum and Instruction in the Content Areas: Life and Physical Science	4
ESEC 520A	Teaching Performance Assessment: Subject Specific Task 1	1
ESEC 520B	Teaching Performance Assessments: Designing Instruction Task 2	1
ESEC 520C	Teacher Performance Assessments Assessing Learners Task 3	1
ESEC 520D	Teacher Performance Assessment Culminating Teaching Experiences Task 4	1
ESEC 550A	Student Teaching Experience	2
ESEC 550B	Student Teaching II	4
ESEC 550C	Student Teaching III	8

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	
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)

BIOL 200	Biology of the Cell	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5

#### Upper-division requirements (56)

CHEM 321	Principles of Organic Chemistry I	5
CHEM 322	Principles of Organic Chemistry II	5
CHEM 323	Principles of Organic Chemistry III	5

Note: Subject to departmental approval the organic chemistry requirement may be met with the following:

CHEM 221A	Organic Chemistry I Lecture	
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)

Applied mathematics. Four units chosen from:		4
MATH 252	Multivariable Calculus II	
MATH 270	Elementary Differential Equations	
MATH 331	Linear Algebra	

CHEM 599	Undergraduate Comprehensive Examination (covering the major field of study, to be taken during the senior year.)	0
----------	--	---

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)

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4

One year of introductory physics for at least 13 quarter units. CSUSB 13-15 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)

CHEM 321	Principles of Organic Chemistry I	5
CHEM 322	Principles of Organic Chemistry II	5
CHEM 323	Principles of Organic Chemistry III	5

Note: Subject to departmental approval the organic chemistry requirement may be met with the following:

CHEM 221A	Organic Chemistry I Lecture
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

CHEM 438A	Biochemistry III	3
CHEM 438B	Biochemistry III	1
Ten units choose Group A or B below:		10
Group A:		
CHEM 451	Physical Chemistry for Biochemists I	
CHEM 452	Physical Chemistry for Biochemists II	
Group B:		
CHEM 455	Physical Chemistry I	
CHEM 456	Physical Chemistry II	
CHEM 470	Bioinorganic Chemistry	3-5
or CHEM 475	Inorganic Chemistry	
CHEM 590A	Chemistry Seminar I	1
CHEM 590B	Chemistry Seminar II	1
BIOL 300	Cell Physiology	5
One course chosen from:		4-6
BIOL 320	Microorganisms	
BIOL 324	Human Physiology for Biology Majors	
BIOL 400	Molecular Biology	
BIOL 413	Biology of Stem Cells	
BIOL 423	Genetics	
BIOL 424	Comparative Animal Physiology	
BIOL 431	Comparative Plant Physiology	
BIOL 440	Principles of Development	
BIOL 576	Endocrinology	
BIOL 580	Neurobiology	
CHEM 599	Undergraduate Comprehensive Examination (covering the major field of study, to be taken during the senior year)	0
Total Units		109-115

## Master of Science in Earth and Environmental Studies

### Requirements (45-49 units)

The Master of Science in Earth and Environmental Sciences is designed to provide strong preparation in applied science as well as social, political, and economic aspects needed for critical decision-making for environmental issues. The program has two options, PSM and Geology. The Professional Science Masters (PSM) includes a core curriculum including an internship, and participation in a basic or applied research project related to the internship. To accommodate working professionals, internships may be completed at their place of business if deemed appropriate by their faculty advisor. The program is designed so that it can potentially be completed in two years and every effort will be made to offer courses at times convenient for working professionals. The required internship program will be offered during the summer between the first and second years and the supervised graduate study in the following quarter. Additional internship courses are included as electives, as a number of local companies have expressed an interest in having interns for extended periods. The Geology Option focuses directly on geological study and research. This option is intended for students who wish to pursue graduate level work as a prelude for doctoral studies, or as professional preparation for careers in geological fields.

The culminating experience in the M.S. in Earth and Environmental Sciences is an extended project or a research thesis. At the end of the research a professional-level paper describing the project and its results will be prepared and presented to the student's advisory committee. If appropriate, students will be encouraged to publish their work in a peer-reviewed journal.

### Admission to the Program

Specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
  2. Completion of an undergraduate major in geology, chemistry or associated fields (e.g., biology or environmental studies with at least 30 quarter units of upper-division course work);
  3. One year each of laboratory courses in: general chemistry, organic chemistry and physics;
  4. One full-term course in basic calculus or methods in calculus;
  5. A cumulative undergraduate grade point average of at least 3.0 in all courses used for credit in the major;
  6. Completion of the graduate entrance writing requirement;
  7. Submission of scores from the Graduate Record Examination (GRE) to the earth and environmental sciences graduate committee;
  8. Submission to the earth and environmental sciences graduate committee of a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate program, option (PSM or Geology) applied for, potential area of research and possible advisor (for thesis option) and professional goals following completion of the M.S.;
  9. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's 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.

### Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate level work included in the formal program, with no less than 32 units completed in residence at this University and with at least 32 units gained from 500- and 600-level courses approved by the program;

2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the program and grades of "C" (2.0) or better in each course in the program;
4. Completion and presentation of an extended project or thesis;
5. The graduation writing requirement is met upon successful completion of the project or thesis;
6. Any additional general requirements not cited above and listed 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 possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses or the comprehensive examination require approval of the earth and environmental sciences graduate committee and will be granted only for serious and compelling reasons.

## Degree Requirements (44-49 units)

### Professional Science Masters (PSM) Option (49 units)

#### Core Courses (41)

CHEM 610	Advanced Environmental Chemistry	5
GEOG 470	Hydrology and Water Resources	4
GEOL 610	Environmental Geosciences	5
CHEM 690	Graduate Seminar in Environmental Sciences	2
or GEOL 690	Graduate Seminar in Environmental Sciences	
HSCI 612	Public Health Statistics	4

PA 620	Regulatory Structure, Policies, and Process in Water Law	4
--------	--	---

Four units chosen from: 4

ECON 360	Economics of the Environment	
IST 309	Information Systems and Technology	
IST 474	Advanced Data Base Management and Information Assurance	

A minimum of nine units, including one internship and one graduate study, chosen from: 9

CHEM 575A-E	Internship in Chemistry	
CHEM 695D-E	Supervised Graduate Study in Chemistry	
GEOL 575B-D	Internship in Geology	
GEOL 695D-E	Supervised Graduate Study in Geology	

Choose one of the following courses: 4

CHEM 696D	Graduate Project	
CHEM 699	Graduate Project or Thesis	
GEOL 696D	Graduate Project	
GEOL 699	Graduate Thesis	

#### Elective Courses (8)

A minimum of 8 units; at least one course must be graduate level. 8

#### Undergraduate Electives:

(Some of these elective courses have prerequisites that must be satisfied before the course can be taken)

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	
GEOL 375	Groundwater Hydrology	
GEOL 376	Field Methods in Hydrology	
GEOL 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	
GEOL 510	Scientific Issues in Surface and Groundwater Management	
GEOL 550	Earth Resources	
GEOL 551	Neotectonics and Seismic Hazard Analysis	
GEOL 620	Digital Mapping and GIS for Scientists	
GEOL 621	Graduate Geological Mapping	
GEOL 630	Environmental Geochemistry	

GEOL 635	Low-temperature Geochemistry	
GEOL 691B	Graduate Independent Study	
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)

CHEM 610	Advanced Environmental Chemistry	5
GEOL 610	Environmental Geosciences	5
GEOL 621	Graduate Geological Mapping	4
GEOL 690	Graduate Seminar in Environmental Sciences	2
GEOL 695D	Supervised Graduate Study in Geology	4-5
or GEOL 695D	Supervised Graduate Study in Geology	
GEOL 696D	Graduate Project	4

### 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)

CHEM 345	Modern Quantitative Analysis	
GEOG 402	Geographic Information Systems Applications	
GEOL 375	Groundwater Hydrology	
GEOL 376	Field Methods in Hydrology	
GEOL 430	Engineering Geology	

#### Graduate Electives:

CHEM 501A-B	Advanced Laboratory Techniques	
CHEM 545	Instrumental Analysis	
GEOL 540	Advanced Topics in Geology	
GEOL 545A-B	Laboratory for Advanced Topics in Geology	
GEOL 550	Earth Resources	
GEOL 551	Neotectonics and Seismic Hazard Analysis	
GEOL 552	Volcanology and Volcanic Hazard Assessment	
GEOL 553	Advanced Structural Geology	
GEOL 575B-D	Internship in Geology	
GEOL 595A-F	Independent Study	
GEOL 620	Digital Mapping and GIS for Scientists	
GEOL 630	Environmental Geochemistry	
GEOL 635	Low-temperature Geochemistry	
GEOL 691B-D	Graduate Independent Study	
GEOL 696A-F	Graduate Project	

Total Units 44-45

## Minor in Chemistry

### Requirements (56-61 units)

## Requirements for a minor in Chemistry

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
A minimum of twelve units, choose Group A or B below:		12-15
Group A:		
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	
Group B:		
CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	
CHEM 345	Modern Quantitative Analysis	5
MATH 192	Methods of Calculus	4
or MATH 212	Calculus II	
One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:		13-15
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	
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.		10
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. The B.A. in Geology Integrated Teaching Track will be phased out within the next year.

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 at least 2 units of GEOL 597.

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. 580)
- Integrated Teaching Track (p. 580)

### Bachelor of Science

- Geology (p. 581)
  - General Geology Option
  - Environmental Geology Option

## Graduate Degrees

- Master of Science in Earth and Environmental Sciences (p. 569)

### Minor

- Geology (p. 582)

## 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 mineralogical 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 required 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 required 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 395C. Directed Studies. 3 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 395D. Directed Studies. 4 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 398. Geological Research Methods and Design. 1 Unit.**

Prerequisites: NSCI 306 and consent of instructor

Offered: Spring

Students are advised and guided in research methods and design. Critical reasoning and the scientific method are used to develop and write a research proposal, following departmental guidelines, to undertake a project for GEOL 399 and/or GEOL 597. Graded credit/no credit.

### **GEOL 399. Undergraduate Geological Research. 3 Units.**

Prerequisites: GEOL 398

Offered: Fall

Laboratory and/or field research in geological sciences under the direction of a faculty advisor. Results will be presented as a research paper. Grade is consensus grade of geology faculty.

### **GEOL 430. Engineering Geology. 5 Units.**

Prerequisites: GEOL 301 and 360 with a grade of "C" or better in each course

A survey of issues and techniques pertinent to geology as it applies to engineering of structures. Soil and rock mechanics; mass wasting processes; water-related issues; land subsidence; seismic hazards. Field trips are required. Three hours lecture and six hours laboratory, some of which will be conducted in the field. Materials fee required.

### **GEOL 460. Topics in Applied Geology. 4 Units.**

Prerequisites: GEOL 360 or consent of instructor

A selected topic of applied geology such as engineering geology, groundwater, environmental geology, resource management, well-log analysis, and geological hazards. Four hours lecture. May be repeated for credit as topics change.

### **GEOL 510. Scientific Issues in Surface and Groundwater Management. 4 Units.**

Overview of groundwater concepts and issues, including groundwater origins and behavior; response to wells; water chemistry; water quality and contamination; development and management. Emphasis is given to applications and case studies. This course does not satisfy requirements for the B.A. and B.S. degrees in geology. Four hours lecture.

### **GEOL 520. Readings in Classical Geology. 2 Units.**

Prerequisites: consent of instructor

Directed readings of important geologic literature that have shaped our understanding of the earth and its history. 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 volcanoclastic 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 bachelors 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 bachelors 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 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.

### **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)

BIOL 100 or BIOL 200	Topics in Biology Biology of the Cell	5
CHEM 205 or CHEM 215	Fundamentals of Chemistry I: General Chemistry General Chemistry I: Atomic Structure and Chemical Bonding	5-6
GEOL 101	Introductory Geology	5
GEOL 250	Historical Geology	5
MATH 211	Basic Concepts of Calculus	4
A minimum of 13 units chosen from Group A or B below:		13-15
Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	

### Upper-division requirements (46)

GEOL 301	Introduction to Geologic Mapping	4
GEOL 312	Geology of California	4
GEOL 320	Mineralogy and Crystallography	5
GEOL 321	Optical Mineralogy	3
GEOL 322	Introduction to Geochemistry	4
GEOL 325	Igneous and Metamorphic Petrology	5
GEOL 330	Sedimentary Petrology	5
GEOL 340	Stratigraphy	5
GEOL 360	Structural Geology	5
GEOL 398	Geological Research Methods and Design	1
GEOL 399	Undergraduate Geological Research	3
GEOL 590	Senior Seminar	2

### Major Electives (9)

A minimum of nine units chosen in consultation with a faculty advisor from the list below. No more than four units may be from a supervision course.

GEOG 202	Introduction to Geographic Information Systems and Cartography	
GEOG 308	Advanced Geographic Information Systems	
GEOG 480	Geomorphology	
GEOL 307A or GEOL 307B	Service Learning in the Earth Sciences	
GEOL 310	Regional Field Geology	
GEOL 350	Paleontology	
GEOL 370	Tectonics	
GEOL 391B-F	Advanced Geologic Mapping	
GEOL 540	Advanced Topics in Geology	

GEOL 545A Laboratory for Advanced Topics in Geology  
or GEOL 545B Laboratory for Advanced Topics in Geology

GEOL 550 Earth Resources

GEOL 551 Neotectonics and Seismic Hazard Analysis

GEOL 552 Volcanology and Volcanic Hazard Assessment

GEOL 553 Advanced Structural Geology

GEOL 595A-F Independent Study

GEOL 597B-D Senior Honors Research

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)

BIOL 100 or BIOL 200	Topics in Biology Biology of the Cell	5
CHEM 205	Fundamentals of Chemistry I: General Chemistry	5-6

or CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	
GEOL 101	Introductory Geology	5
GEOL 250	Historical Geology	5
MATH 211	Basic Concepts of Calculus	4

A minimum of thirteen units chosen from Group A or B below: 13-15

Group A:

PHYS 121	Basic Concepts of Physics I
PHYS 122	Basic Concepts of Physics II
PHYS 123	Basic Concepts of Physics III

Group B:

PHYS 221	General Physics I
PHYS 222	General Physics II
PHYS 223	General Physics III

GEOL 205	Volcanic Hazards, Surveillance and Prediction	2
or GEOL 210	Earthquakes: Science and Public Policy	

**Upper-division requirements (57)**

GEOL 301	Introduction to Geologic Mapping	4
GEOL 312	Geology of California	4
GEOL 320	Mineralogy and Crystallography	5
GEOL 321	Optical Mineralogy	3
GEOL 325	Igneous and Metamorphic Petrology	5
GEOL 330	Sedimentary Petrology	5
GEOL 340	Stratigraphy	5
GEOL 360	Structural Geology	5
GEOL 398	Geological Research Methods and Design	1
GEOL 399	Undergraduate Geological Research	3
GEOL 590	Senior Seminar	2
GEOG 360	Weather and Climate	4
GEOG 480	Geomorphology	4
PHYS 303	Astronomy for Educators	3

Four units chosen from: 4

NSCI 300	Science and Technology
NSCI 314	Life in the Cosmos
NSCI 315	Natural Disasters
NSCI 320	Energy
NSCI 360	Legacy of Life

**Education courses (48)**

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
ESEC 506L	Curriculum and Instruction in the Content Areas: Life and Physical Science	4
ESEC 550A	Student Teaching Experience	2
ESEC 512 & ESEC 550B	Assessment Seminar: Designing Instruction and Student Teaching II	6

ESEC 513 & ESEC 514 & ESEC 550C	Assessment Seminar: Assessment Learning and Assessment Seminar: Culminating Teaching Experience and Student Teaching III	12
---------------------------------	--	----

Total Units 144-147

## 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)

BIOL 100	Topics in Biology	5
or BIOL 200	Biology of the Cell	
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
GEOL 101	Introductory Geology	5
GEOL 250	Historical Geology	5
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4

A minimum of 9 units chosen from Group A or B below: 9

(students are strongly encouraged to complete the sequence)

Group A:

PHYS 121	Basic Concepts of Physics I
PHYS 122	Basic Concepts of Physics II
PHYS 123	Basic Concepts of Physics III

Group B:

PHYS 221	General Physics I
PHYS 222	General Physics II
PHYS 223	General Physics III

#### Upper-division requirements (50)

GEOL 301	Introduction to Geologic Mapping	4
GEOL 320	Mineralogy and Crystallography	5
GEOL 321	Optical Mineralogy	3
GEOL 322	Introduction to Geochemistry	4
GEOL 325	Igneous and Metamorphic Petrology	5
GEOL 330	Sedimentary Petrology	5
GEOL 340	Stratigraphy	5
GEOL 360	Structural Geology	5
GEOL 390	Field Camp	8

or

GEOL 391B-F	Advanced Geological Mapping	
GEOL 398	Geological Research Methods and Design	1
GEOL 399	Undergraduate Geological Research	3
GEOL 590	Senior Seminar	2

#### Option (18)

Complete one of the following options 18

Total Units 112

## General Geology Option (18 units)

A minimum of 18 units chosen from the following list after consultation 18 with a faculty advisor. No more than four units may be taken from supervision courses.

GEOG 202	Introduction to Geographic Information Systems and Cartography	
GEOG 308	Advanced Geographic Information Systems	
GEOG 480	Geomorphology	
GEOL 307A-B	Service Learning in the Earth Sciences	
GEOL 310	Regional Field Geology	
GEOL 312	Geology of California	
GEOL 350	Paleontology	
GEOL 370	Tectonics	
GEOL 375	Groundwater Hydrology	
GEOL 391B-E	Advanced Geologic Mapping	
GEOL 395A-D	Directed Studies	
GEOL 540	Advanced Topics in Geology	
GEOL 545A-B	Laboratory for Advanced Topics in Geology	
GEOL 550	Earth Resources	
GEOL 551	Neotectonics and Seismic Hazard Analysis	
GEOL 552	Volcanology and Volcanic Hazard Assessment	
GEOL 553	Advanced Structural Geology	
GEOL 575B-D	Internship in Geology	
GEOL 595A-E	Independent Study	
GEOL 597B-D	Senior Honors Research	
MATH 262	Applied Statistics	
Total Units		18

## Environmental Geology Option (18 units)

GEOL 375	Groundwater Hydrology	4
GEOL 376	Field Methods in Hydrology	4
GEOL 430	Engineering Geology	5
A minimum of five units chosen, after consultation with a faculty advisor, from (no more than two units from supervision courses):		5
CHEM 206	Fundamentals of Chemistry II: Organic Chemistry	
GEOG 202	Introduction to Geographic Information Systems and Cartography	
GEOG 470	Hydrology and Water Resources	
GEOG 480	Geomorphology	
GEOL 312	Geology of California	
GEOL 540	Advanced Topics in Geology	
GEOL 545A-B	Laboratory for Advanced Topics in Geology	
GEOL 550	Earth Resources	
GEOL 551	Neotectonics and Seismic Hazard Analysis	
GEOL 552	Volcanology and Volcanic Hazard Assessment	
GEOL 553	Advanced Structural Geology	
GEOL 575B-D	Internship in Geology	
GEOL 595A-E	Independent Study	
GEOL 597B-D	Senior Honors Research	
HSCI 557	Hazardous Material Control	
MATH 262	Applied Statistics	
Total Units		18

## Minor in Geology

### Requirements (35-36 units)

### Requirements for a minor in Geology

#### Lower-division requirements (20-21)

GEOL 101	Introductory Geology	5
GEOL 250	Historical Geology	5
CHEM 205	Fundamentals of Chemistry I: General Chemistry	5-6
or CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	
PHYS 121	Basic Concepts of Physics I	5
or PHYS 221	General Physics I	

#### Upper-division requirements (15)

A minimum of 15 units of upper-division geology courses. These units 15 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)

## 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
- 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.

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  
D.PH. 2014, 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.

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.U.P. 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  
B.A. 1989, Lawrence University  
M.A. 1998, Psy.D. 2004, The Wright Institute

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

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

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. 597) with concentrations in:
  - Environmental Health Science
  - Health Care Management
  - Public Health Education
- Nutrition and Food Sciences (p. 598)

### Graduate Degrees

- Master of Public Health (p. 599)
- Master of Science in Health Services Administration (p. 600)

### Minors

- Health Science (p. 601)
- Nutrition and Food Sciences (p. 601)

### Certificate Programs

- Gerontology (p. 601)
- Health Care Management (p. 602)

## 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. Four hours lecture and three hours laboratory.

**HSCI 350. Principles of Nutrition. 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. Womens 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  
Health planning systems and procedures.

### **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 432. School Health Administration and Planning. 4 Units.**

Philosophical framework and history of the school health education program, including organization, funding, administration, and legal aspects. Emphasis on the roles of health teachers and school nurses within the context of a coordinated school health program, including parent-community advisory groups. Formerly HSCI 334 and 434.

### **HSCI 433. School Health Education. 4 Units.**

Prerequisites: HSCI 120 or consent of instructor  
Health education concepts and content applied specifically to grades 7-12. Stresses instruction in health education for the teacher/school nurse, within the context of a coordinated school health system; teaching strategies and their adaptation to special populations; the identification and assessment of instructional resources; alignment with state and federal standards for health education. Formerly HSCI 333.

### **HSCI 435. Health and Human Development. 4 Units.**

Issues regarding the health and well-being of children and adolescents will be emphasized including physical, cognitive, emotional, and social development from an applied perspective.

### **HSCI 436. Human Resources Management in Health Care. 4 Units.**

Principles of effective human resource management in the medical care setting. Issues involving wage and hour laws, state and federal regulations of the work place, recruitment and retention of staff, training, compensation and benefits, professional credentialing, licensure, and continuing education. Formerly a topic under HSCI 452.

### **HSCI 437. Information Systems as Applied to Ambulatory Care/Group Practice Management. 4 Units.**

Prerequisites: HSCI 120 or consent of instructor  
Information system needs of medical group/ambulatory care organizations including the selection of software and hardware for an integrated information system. Solve problems related to the integration of clinical and financial data, understand the development of electronic medical records, patient scheduling systems, disease state management and HIPAA regulations. Previously offered as a topic under HSCI 452.

### **HSCI 438. Financial Management in Health Care. 4 Units.**

Prerequisites: ACCT 211 or consent of instructor  
Financial requirements in medical care settings, including the selection of software and hardware for an integrated information system. Solve problems related to the integration of clinical and financial data, understand the development of electronic medical records, patient scheduling systems, disease state management, and HIPAA regulations. Previously offered as a topic under HSCI 452.

### **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 451. Principles of Epidemiology. 4 Units.**

Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach.

**HSCI 452. Special Topics in Health Science and Human Ecology. 4 Units.**

Prerequisites: consent of instructor

Examination of selected topics of current interest in health science. May be repeated for credit as topics change.

**HSCI 455. Health Policy and Law. 4 Units.**

Health policy, law, and regulations and their impact on public health, including health care. Considers the role of the legal system in resolving public health and health care issues through the legislature, the courts, and administrative agencies. Formerly HSCI 355.

**HSCI 460. Strategic Planning and Marketing in the Health Care System. 4 Units.**

Strategy-oriented management planning process, basic approaches and methodologies employed in strategic planning and health care marketing; economic and political forces which give form and shape to the health care marketplace.

**HSCI 465. Foodservice Production and Procurement. 5 Units.**

Prerequisites: HSCI 345 and 350, or consent of instructor

Principles and procedures of menu planning, quantity food production, production scheduling, recipe adaptation, equipment operation, sanitation and formula costing. Principles of procurement including purchasing, selection, storage of equipment and quantity foods. Three hours lecture and six hours laboratory.

**HSCI 467. Foodservice Systems Management. 4 Units.**

Prerequisites: HSCI 465 and either MGMT 302 or PSYC 302, or consent of instructor

Distribution and management of resources in food service management: personnel, facilities, materials, time and money.

**HSCI 468. Research Methodology in Health Science. 4 Units.**

Prerequisites: HSCI 315, MATH 262 or MATH 305; or consent of instructor

Entry-level research methods and application to contemporary health problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Materials fee required. Formerly HSCI 498 and HSCI 598.

**HSCI 471. 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 advisor  
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 MSHA 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 work place hazards including risk assessment, advanced techniques and instrumentation used in the solution of work place 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)

HSCI 120	Health and Society: An Ecological Approach	5
----------	--	---

### Upper-division requirements (20)

HSCI 315	Statistics for the Health Sciences	4
HSCI 352	Principles of Environmental Health	4
HSCI 367	Human Disease Mechanisms	4
HSCI 370	Health Behavior	4
HSCI 451	Principles of Epidemiology	4

### Concentration (79-91)

One of the following concentrations is required for the major:	79-91
Total Units	104-116

## Environmental Health Concentration

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
BIOL 220	Principles of Microbiology	5
or BIOL 320	Microorganisms	
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6

Organic chemistry, a minimum of five units. Choose Group A, B, or C in its entirety:

Group A:	
CHEM 206	Fundamentals of Chemistry II: Organic Chemistry
Group B:	

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	
Group C:		
CHEM 321	Principles of Organic Chemistry I	
CHEM 322	Principles of Organic Chemistry II	
CHEM 323	Principles of Organic Chemistry III	
HSCI 380	Toxicology	4
HSCI 401	Advanced Environmental Health	5
HSCI 402	Principles of Occupational Health	5
HSCI 403	Vector-borne Disease Control	5
HSCI 478	Environmental Health Management	4
HSCI 480	Health Services Administration	4
HSCI 496	Internship in Environmental Health	4
MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	
A minimum of thirteen units, choose Group A or B below:		13
Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	
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

ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4
ECON 200	Principles of Microeconomics	4
HSCI 271	Introduction to Public Health	4
HSCI 273	Software Applications in the Health Sciences	4
HSCI 360	Medical Care Organizations	4
HSCI 423	Health and Wellness of Older Adults	4

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.		12
Total Units		79

### Public Health Education Concentration

BIOL 220	Principles of Microbiology	5
BIOL 223	Human Physiology and Anatomy I	5
BIOL 224	Human Physiology and Anatomy II	5
CHEM 205	Fundamentals of Chemistry I: General Chemistry	5
HSCI 271	Introduction to Public Health	4
HSCI 273	Software Applications in the Health Sciences	4
HSCI 301	Foundations of Public Health Education	4
HSCI 310	Health and Human Sexuality	4
HSCI 342	Nutrition for Your Health	4
HSCI 359	Global Health	4
HSCI 364	Drug and Alcohol Use and Abuse	4
HSCI 455	Health Policy and Law	4
HSCI 468	Research Methodology in Health Science	4
HSCI 471	Health Program Planning and Implementation	4
HSCI 473	Strategies and Methods in Health Education	4
HSCI 480	Health Services Administration	4
HSCI 489	Pre-Field Experience	2
HSCI 493	Field Experience Seminar	1
HSCI 495	Field Experience	4
Four units of upper division elective from SOC, ANTH, PA, GEOG, PSYC, HSCI as approved by advisor.		4
Total Units		79

## 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	
NSCI 306	Expository Writing for the Natural Sciences	4

Eight units chosen from: 8

HSCI 344	International Perspectives on Nutrition	
HSCI 367	Human Disease Mechanisms	
HSCI 382	Nutrition for Health, Fitness and Sports	
HSCI 385	Food and Culture: Traditions and Trends	
Other upper-division health science courses, except HSCI 342, which may be taken with prior approval from a faculty advisor. HSCI 399 may not be used to meet the upper-division HSCI elective units for the degree.		

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)

### Public Health Core (20)

HSCI 610	Social and Behavioral Influences on Public Health	4
HSCI 611	Public Health System Organization and Delivery	4
HSCI 612	Public Health Statistics	4
HSCI 616	Environmental and Occupational Health	4
HSCI 617	Epidemiology	4

### Required Courses (36)

HSCI 602	Management, Organization and Planning	4
HSCI 607	Cross Cultural Aspects of Health	4
HSCI 608	Health Research Methods	4
HSCI 614	Health Education Practice	4
HSCI 665	Strategic Planning and Evaluation	4
HSCI 675	Health Services Administration Leadership, Team and Quality Development	4
HSCI 685	Health Services Administration Capstone Seminar	4
HSCI 689D	Field Experience	4

Electives may include: 4

COMM 560	Health Communication	
HSCI 530	Food-Borne Illnesses and Their Prevention	
HSCI 531	Bioterrorism	
HSCI 557	Hazardous Material Control	
HSCI 558	Management of Water Quality	
HSCI 603	Health Economics and Financial Systems	
HSCI 635	Communication and Human Relations in Health Services	

Others 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. 799). 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)

HSCI 602	Management, Organization and Planning	4
HSCI 607	Cross Cultural Aspects of Health	4
HSCI 608	Health Research Methods	4
HSCI 610	Social and Behavioral Influences on Public Health	4
HSCI 611	Public Health System Organization and Delivery	4
HSCI 612	Public Health Statistics	4
HSCI 616	Environmental and Occupational Health	4
HSCI 617	Epidemiology	4
HSCI 665	Strategic Planning and Evaluation	4
HSCI 675	Health Services Administration Leadership, Team and Quality Development	4
HSCI 685	Health Services Administration Capstone Seminar	4

### MSHA Concentration Courses (16)

HSCI 603	Health Economics and Financial Systems	4
ACCT 605 or HSCI 605	Health Care Accounting and Financial Analysis	4
HSCI 645	Information and Technology Systems Management in Health Services	4
HSCI 653	Health Law and Medical Ethics	4

### Culminating Experience/Application of Learning (4)

One of the following options:	4
Comprehensive Examination Option	
HSCI 999	Comprehensive Examination
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)

HSCI 120	Health and Society: An Ecological Approach	5
----------	--	---

#### Upper-division requirements (26)

HSCI 352	Principles of Environmental Health	4
HSCI 451	Principles of Epidemiology	4
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)

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 245	Introduction to Food Science	5

#### Upper-division requirements (20)

HSCI 350	Principles of Nutrition	4
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.

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. 775),

## 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.

### Certificate Requirements

ACCT 211	Introductory Accounting I	4
HSCI 120	Health and Society: An Ecological Approach	5
HSCI 360	Medical Care Organizations	4
HSCI 460	Strategic Planning and Marketing in the Health Care System	4
HSCI 480	Health Services Administration	4
Eight units chosen from:		8
HSCI 271	Introduction to Public Health	
HSCI 311	Organization and Management of Long-Term Care Facilities	
HSCI 512	Clinical Operations of Ambulatory Care/Group Practices	
HSCI 513	Managed Care Systems	
MGMT 302	Management and Organizational Behavior	4
Total Units		33

## 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
  - Allied Health Professions
  - Exercise Science
  - Pedagogy

### 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, Assitatn 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

C. Michael O'Gara, Professor

Gregory L. Price, Professor

Reginald Price, Professor

Hossein Shalchi, Professor

A.I. Clifford Singh, Professor

Linda D. Wilkin, Associate Professor

## Undergraduate Degrees

### Bachelor of Science

- Kinesiology with concentrations in:
  - Allied Health Professions (p. 612)
  - Exercise Science (p. 613)
  - Pedagogy (p. 613)

### Minors

- Kinesiology (p. 615)
- Recreation (p. 616)

### Certificate Programs

- Coaching (p. 614)
- Fitness Management (p. 615)
- Recreation Leadership (p. 615)

## 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:

KINE 101A-S	Individual and Dual Activities	2
KINE 114A-F	Physical Fitness and Conditioning Activities	2
KINE 120A-L	Somatic and Martial Arts Activities	2
KINE 121A-K	Team Activities	2
KINE 137A-L	Aquatic Activities	2
KINE 147	A Fitness Odyssey	2

KINE 149	Independent Activity Project	2
KINE 150A-K	Dance Activities	2

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.

### 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.

### 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. (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. (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. (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.

### 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.

**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. (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. (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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.).

**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.).

**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.).

**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. (Field trips required. NAUI certification available.).

**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.

**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.

**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.

**KINE 137L. Advanced Swimming for Fitness. 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. 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.

**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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **KINE 160. 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. May be repeated.

### **KINE 190. 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. 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.



**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**KINE 263A. Professional Activity Preparation of Team Sports: Basketball. 2 Units.**

The development of the fundamental techniques and skills for teaching these activities.

**KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag). 2 Units.**

The development of the fundamental techniques and skills for teaching these activities.

**KINE 263C. Professional Activity Preparation of Team Sports: Soccer. 2 Units.**

The development of the fundamental techniques and skills for teaching these activities.

**KINE 263D. Professional Activity Preparation of Team Sports: Softball. 2 Units.**

The development of the fundamental techniques and skills for teaching these activities.

**KINE 263E. Professional Activity Preparation of Team Sports: Volleyball. 2 Units.**

The development of the fundamental techniques and skills for teaching these activities.

**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.

**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.

**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.

**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. 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. 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.

**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.

**KINE 331A. Topics in Adapted Physical Education: Adapted Aquatics. 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. (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.

**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.

**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.

**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.

**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 343. 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.

**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.

**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.

**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.

**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.

**KINE 454. Field Experience II. 3 Units.**

Prerequisites: KINE 254 or consent of instructor

Supervised leadership experience in a teaching or fitness setting.

**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.

### **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 MATH 120, OR MATH 192, OR MATH 211. 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.

### **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.

### **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.

### **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 activity. Laboratory included.

### **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. 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.

### **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.

### **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.

### **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.

### **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.

**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.

**KINE 600. Graduate Seminar. 2 Units.**

Examination of selected disciplinary and professional issues in physical education through critical analysis of literature and research findings.

**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.

**KINE 630. Physical Education for Special Populations. 4 Units.**

Physical activity assessment, and program development for individuals with disabilities.

**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 children's fitness and assessment.

**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 - 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.

GPA	ACT Score	SAT Score
3.45	18	800
3.10	22	1100
2.95	27	1220
2.75	29	1290

**Minimum Admission Requirements for Transfer Students:**

- 3.20 GPA required;
- Complete the following:

MATH 192	Methods of Calculus	4
or MATH 211	Basic Concepts of Calculus	
BIOL 223	Human Physiology and Anatomy I	5
BIOL 224	Human Physiology and Anatomy II	5
A minimum of one (1) science series chosen from Group A, B or C		
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
PHYS 123	Basic Concepts of Physics III	4
Group C:		
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
The grade earned in each of the above courses must be no lower than a "C" (2.0).		

**Department Regulations**

Students in the Allied Health Professions Concentration must maintain a 3.20 GPA once admitted to the program.

**Requirements for the B.S. in Kinesiology - Allied Health Professions Concentration**

Students must earn a grade of "C" (2.0) or better in all lower division courses required to fulfill the B.S. in Kinesiology-Allied Health Professions Concentration.

**Lower-division requirements (52)**

BIOL 100	Topics in Biology	5
BIOL 223	Human Physiology and Anatomy I	5
BIOL 224	Human Physiology and Anatomy II	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
KINE 210	Introduction to Kinesiology	2
KINE 270	Introduction to Fitness and Testing	2
MATH 192	Methods of Calculus	4
Physics. A minimum of thirteen units chosen from Group A or B:		13
Group A:		
PHYS 121	Basic Concepts of Physics I	
PHYS 122	Basic Concepts of Physics II	
PHYS 123	Basic Concepts of Physics III	
Group B:		
PHYS 221	General Physics I	
PHYS 222	General Physics II	
PHYS 223	General Physics III	
PSYC 100	Introduction to Psychology	4

**Upper division requirements (40)**

KINE 305	Prevention and Treatment of Sports Injuries	4
KINE 310	History and Philosophy of Physical Activity	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		92

## 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)**

BIOL 100	Topics in Biology	5
BIOL 223	Human Physiology and Anatomy I	5
BIOL 224	Human Physiology and Anatomy II	5
KINE 210	Introduction to Kinesiology	2
KINE 240	Exercise Science Software	2
KINE 270	Introduction to Fitness and Testing	2

**Upper-division requirements (58)**

KINE 305	Prevention and Treatment of Sports Injuries	4
----------	---	---

KINE 310	History and Philosophy of Physical Activity	4
Affective/Social Domain:		
KINE 323	Sociology of Physical Activity	4
or KINE 324	Psychology of Physical Activity	
KINE 325	Motor Development Across the Lifespan	4
KINE 360	Physical Activity and Aging	2
KINE 370	Measurement and Statistics in Kinesiology	4
KINE 382	Nutrition for Health, Fitness and Sports	4
KINE 410	Motor Control and Skill Learning	4
KINE 471	Exercise Science Program Management	4
KINE 480	Biomechanics	5
KINE 481	Exercise Physiology	5
KINE 483	Exercise Prescription	4
KINE 485	EKG Interpretation	2
KINE 486	Instrumentation in Exercise Science	2
KINE 488	Legal Issues in Exercise Science	2
KINE 490	Senior Seminar in Kinesiology	2
KINE 493	Internship	2
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)**

BIOL 100	Topics in Biology	5
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
KINE 261C	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance	2
KINE 261F	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics	2
KINE 261H	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Swimming	2
Individual and Dual Sports/Movement Forms. Two units chosen from:		2
KINE 261B	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton	
KINE 261G	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball	
KINE 261J	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis	
Individual and Dual Sports/Movements Forms. Two units chosen from:		2
KINE 261E	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Golf	
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	
Team Sports. Eight units chosen from:		8
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	2
<b>Upper-division requirements (52)</b>		
KINE 305	Prevention and Treatment of Sports Injuries	4
KINE 310	History and Philosophy of Physical Activity	4
KINE 311	Introduction to Adapted Physical Education	4
KINE 323	Sociology of Physical Activity	4
KINE 324	Psychology of Physical Activity	4
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

## 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)

KINE 200	First Aid	2
Four units chosen from:		4
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	

Four units chosen from: 4

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 267 Sports Officiating 2

### Upper-division requirements (21)

KINE 323	Sociology of Physical Activity	4
KINE 324	Psychology of Physical Activity	4
KINE 343	Methods and Techniques of Coaching	4
KINE 472	Program Design in Physical Education	4
KINE 479	Qualitative Biomechanics	5
or KINE 480	Biomechanics	

Total Units 33

## 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.

### Certificate requirements

KINE 305	Prevention and Treatment of Sports Injuries	4
KINE 454	Field Experience II	3
KINE 471	Exercise Science Program Management	4
KINE 480	Biomechanics	5
KINE 481	Exercise Physiology	5
KINE 482	Contemporary Fitness Programs	4
KINE 483	Exercise Prescription	4
KINE 580	Exercise, Energy and Human Performance	4
Total Units		33

## 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)

KINE 203	Introduction to Recreation	4
KINE 271	Recreation Leadership	4

KINE 277	Recreation Programming	4
Four units chosen from:		4

KINE 137A	Aquatic Activities: Lifeguard Training	
KINE 137C	Aquatic Activities: Basic and Emergency Water Safety	
KINE 137D	Aquatic Activities: Boating and Canoeing	
KINE 137F	Aquatic Activities: Scuba Diving	
KINE 137G	Aquatic Activities: Skin Diving	
KINE 137H	Aquatic Activities: Springboard Diving	
KINE 137J	Aquatic Activities: Swimming	
KINE 137K	Aquatic Activities: Water Polo	

Four units chosen from:		4
-------------------------	--	---

KINE 146A	Outdoor Skills Activities: Backpacking	
KINE 146B	Outdoor Skills Activities: Camping	
KINE 146C	Outdoor Skills Activities: Mountaineering	
KINE 146D	Outdoor Skills Activities: Orienteering	
KINE 146E	Outdoor Skills Activities: Survival Skills	

#### Upper-division requirements (11)

KINE 365	Outdoor Education and Camp Leadership	4
KINE 454	Field Experience II	3
KINE 471	Exercise Science Program Management	4
or KINE 472	Program Design in Physical Education	

Total Units		31
-------------	--	----

## Minor in Kinesiology

### Requirements (43 units)

#### Requirements for a minor in Kinesiology

##### 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	
Four units chosen from:		4
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	
<b>Upper-division requirements (17)</b>		
KINE 305	Prevention and Treatment of Sports Injuries	4
KINE 323	Sociology of Physical Activity	4
or KINE 324	Psychology of Physical Activity	
KINE 471	Exercise Science Program Management	4
or KINE 472	Program Design in Physical Education	
KINE 481	Exercise Physiology	5
Total Units		43

## Minor in Recreation

### Requirements (24 units)

### Requirements for a minor in Recreation

#### Lower-division requirements (16)

KINE 200	First Aid	2
KINE 203	Introduction to Recreation	4
KINE 254	Field Experience	2
KINE 271	Recreation Leadership	4
KINE 277	Recreation Programming	4

#### Upper-division requirements (8)

KINE 365	Outdoor Education and Camp Leadership	4
KINE 471	Exercise Science Program Management	4
Total Units		24

# Department of Mathematics

## Department of Mathematics

Jack Brown Hall, Room 370  
(909) 537-5361 Department of Mathematics (<http://www.math.csusb.edu>)

### Bachelor of Arts

- Mathematics
- Mathematics - 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  
M.S. 2005, Ph.D. 2009, Louisiana State University

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

David D. Fischman, Professor  
B.S. 1976, M.S. 1978, Ph.D. 1989, Ben Gurion University

Kirsten Fleming, Professor, Dean  
Ph.D. 1989, University of Birmingham

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

Corrine Johnson, Assistant Professor

B.S. 2009, University of Redlands

Ph.D. 2014, Colorado State University

Yuichiro Kakihara, Professor

B.S. 1974, M.S. 1976, Dr. Sci. 1985, Tokyo Institute of Technology,

Tokyo, Japan

Su Liang, Assistant Professor

B.A. 2003, M.S. 2007, Ph.D. 2010, University of Connecticut

Giovanna Lloset, 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. McMurrin, Professor

B.S. 1985, M.S. 1987, Ph.D. 1991, University of California, Riverside

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

Licen. 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. 626)
- Mathematics - Teaching Track (p. 626)

### Bachelor of Science

- Mathematics (p. 627)

## Graduate Degrees

### Master of Arts

- Mathematics (p. 629)

### Master of Arts in Teaching

- Mathematics (p. 630)

## Minors

- Applied Mathematics (p. 631)
- Mathematics (p. 631)

## Certificate Programs

- Introductory Actuarial Science (p. 632)
- Introductory Mathematics (p. 632)

## 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 110. College Algebra. 4 Units.**

Prerequisites: passing score on the Entry Level Mathematics examination or passage of MATH 90  
(GE=B1)

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  
(GE=B1)

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  
(GE=B1)

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.**

(GE=A4)

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

(GE=B1)

Offered: Fall, Winter and Spring

A short course in calculus with emphasis on applications.

**MATH 199. Problem Solving for Teachers Using Technology. 3 Units.**

Offered: Winter and Spring

Exploration of central ideas in secondary school mathematics through problem solving using technology. Introduction to technological and software tools for teaching and learning geometry, algebra, and additional topics relevant to secondary school mathematics. 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  
(GE=B1)

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

Boolean algebra. Computer arithmetic including hexadecimal, octal and binary numeration. Relations and functions. Vectors and matrices. Introduction to graph theory.

**MATH 299. Problem Solving and Mathematical Reasoning for Teachers I. 4 Units.**

Prerequisites: Math 120 or equivalent

Development of problem solving skills, mathematical habits of mind, and mathematical practices, for secondary teachers. Introduction to algebraic thinking through a problem solving approach using multiple approaches. Topics include proportional reasoning and structure of number systems with connections to geometry. Graded ABC/NC.

**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 inversive 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. Mathematics and Teaching: Observation and Reflection. 2 Units.**

Prerequisites: MATH 299 and MATH 329. MATH 329 may also be taken concurrently

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 analyze and reflect on the teaching and learning of mathematics as well as to link their undergraduate mathematics course work with classroom experience. Includes weekly meetings on campus and observations of a secondary classroom. Graded ABC/no credit.

**MATH 455. Fourier Analysis. 4 Units.**

Prerequisites: MATH 270 and MATH 355

Fourier series and the Fourier transform. Convergence properties and orthogonality. Applications to differential equations.

**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 485. Differential Geometry. 4 Units.**

Prerequisites: MATH 252, 331 and 355

An introduction to the differential geometry of curves and surfaces, including first and second fundamental forms, curvatures, geodesics, minimal surfaces, and Gauss-Bonnet Theorem.

**MATH 499. Problem Solving and Mathematical Reasoning for Teachers II. 4 Units.**

Prerequisites: MATH 199, MATH 329, MATH 331 and MATH 399

Offered: Winter and Spring

Continued development of problem solving skills using multiple approaches, mathematical habits of mind, and mathematical practices, for secondary teachers. Includes topics from algebra and geometry as related to secondary mathematics. Emphasizes communication, argumentation, mathematical structure and connections. Graded ABC/no credit.

**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 545. Abstract Algebra I. 4 Units.**

Prerequisites: MATH 331, MATH 345 and MATH 355

Offered: Fall, Winter and Spring

An introduction to algebraic structures, including groups, rings and fields.

**MATH 546. Abstract Algebra II. 4 Units.**

Prerequisites: MATH 545

Offered: Spring

Continuation of MATH 545.

**MATH 553. Analysis I. 4 Units.**

Prerequisites: MATH 252 and MATH 355

Offered: Fall, Winter and Spring

Continuous and differentiable functions, infinite series. Uniform convergence, computation with series, functions represented by integrals, theory of integration.

**MATH 554. Analysis II. 4 Units.**

Prerequisites: MATH 553

Offered: Spring

Continuation of MATH 553.

**MATH 555. Introduction to Point-Set Topology. 4 Units.**

Prerequisites: MATH 355

Topics to include topological and metric spaces, compactness, product spaces, connectedness, separation properties.

**MATH 557. Complex Variables. 4 Units.**

Prerequisites: MATH 252 and 355

Analytic and harmonic functions, power series, Cauchy's Theorem and Cauchy's Formula.

**MATH 565. Mathematical Statistics. 4 Units.**

Prerequisites: MATH 465

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models.

### **MATH 570. Partial Differential Equations. 4 Units.**

Prerequisites: MATH 270 and MATH 355. MATH 241 recommended  
Classification of partial differential equations; heat equation, Laplace's equation, boundary value-problems; separation of variables. Applications of Fourier and Laplace transforms, numerical methods.

### **MATH 576. Introduction to Mathematical Methods. 4 Units.**

Prerequisites: CSE 201, MATH 331 and MATH 465  
Topics from linear and probabilistic models, computer simulation, difference and differential equation models.

### **MATH 595A. Independent Study. 1 Unit.**

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 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 480 and MATH 499

Offered: Fall and Spring

Culminating experience in problem solving for secondary mathematics teachers. Each student will complete a reflective portfolio that is representative of their undergraduate work and makes connections to secondary mathematics. 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. MATH 631 and MATH 632 are recommended

Trigonometric functions, identities and equations as foundation for study of the complex numbers, the complex plane, polar coordinates, de Moivre's theorem, and definition of trigonometric functions in terms of exponential functions. Geometric and analytic properties of the conic sections. Problem solving, curricular and pedagogical issues emphasized throughout. Students will adapt methods from this course to a teaching setting and report on this experience.

**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 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 Mathematics

### Requirements (74 units)

Total units required 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: 12

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
MATH 595D	Independent Study

Total Units 74

## 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 (29)

MATH 199	Problem Solving for Teachers Using Technology	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
MATH 299	Problem Solving and Mathematical Reasoning for Teachers I	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	Mathematics and Teaching: Observation and Reflection	2
MATH 465	Probability Theory	4
MATH 480	Topics in History of Mathematics	4
MATH 499	Problem Solving and Mathematical Reasoning for Teachers II	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

#### Electives (8)

Eight units chosen from the following in consultation with an advisor with at least 4 units chosen at the 400-level and above: 8

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 570	Partial Differential Equations	
MATH 576	Introduction to Mathematical Methods	
MATH 595D	Independent Study	
Total Units		89

## 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: 8-10

BIOL 321	Evolution	
BIOL 423	Genetics	
BIOL 450	Ecology	
BIOL 522	Population Genetics	
BIOL 572	Virology	
BIOL 573	Immunology	

Four units chosen from: 4

MATH 320	Mathematical Interest Theory	
MATH 455	Fourier Analysis	
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 570	Partial Differential Equations	

MATH 595D	Independent Study	
Total Units		56-58

## Concentration in Computer Science (40 units)

### Lower-division requirement (4)

CSE 202	Computer Science II	4
---------	---------------------	---

### Upper-division requirements (8)

CSE 320	Programming Languages	4
CSE 330	Data Structures	4

### Electives (28)

Twelve units chosen from: 12

CSE 420	Computer Graphics	
CSE 431	Algorithm Analysis	
CSE 500	Introduction to Formal Languages and Automata	
CSE 501	Introduction to Theory of Computation	
CSE 512	Introduction to Artificial Intelligence	
CSE 513	Advanced Artificial Intelligence	
CSE 515	Automated Reasoning	
CSE 520	Advanced Computer Graphics	
CSE 524	Supercomputing and Visualization	
CSE 535	Numerical Computation	
CSE 550	Advanced Bioinformatics I: Sequence Analysis	
CSE 551	Advanced Bioinformatics II: Numerical Modeling	

Sixteen units of mathematics electives selected from the following with at least eight units chosen from 500-level courses: 16

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	
MATH 595D	Independent Study	

Total Units 40

## Concentration in Economics (40 units)

### Lower-division requirements (8)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4

### Upper-division requirements (12)

MATH 320	Mathematical Interest Theory	4
MATH 565	Mathematical Statistics	4
MATH 576	Introduction to Mathematical Methods	4

### Electives (20)

Sixteen units chosen from: 16

ECON 300	Intermediate Macroeconomics	
ECON 302	Intermediate Microeconomics	
ECON 360	Economics of the Environment	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 475	Public Economics	
ECON 480	Quantitative Methods in Economics	
ECON 490	Introduction to Econometrics	

Four units chosen from: 4

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 570	Partial Differential Equations	
MATH 595D	Independent Study	

Total Units 40

## Concentration in Geographic Information Systems (48 units)

### Lower-division requirements (14)

GEOG 103	Physical Geography	5
GEOG 201	Map Interpretation	4
GEOG 202	Introduction to Geographic Information Systems and Cartography	5

### Upper-division requirements (14)

GEOG 308	Advanced Geographic Information Systems	5
GEOG 402	Geographic Information Systems Applications	5
MATH 470	Ordinary Differential Equations	4

### Electives (20)

At least eight units to be chosen from: 8

GEOG 306	Remote Sensing of the Environment	
GEOG 406	Digital Image Processing	
GEOG 575D-E	Internship in Geography	

Twelve units selected from the following with at least eight units chosen from 500-level courses: 12

MATH 320	Mathematical Interest Theory	
MATH 455	Fourier Analysis	
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
MATH 595D	Independent Study
<hr/>	
Total Units	48

## Concentration in Physics (49 units)

### Lower-division requirements (21)

PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

### Upper-division requirement (4)

PHYS 373	Mathematical Methods of Physics I	4
----------	-----------------------------------	---

### Electives (24)

Twelve units chosen from: 12

PHYS 306	Classical Mechanics I
PHYS 307	Classical Mechanics II
PHYS 313	Electrodynamics I
PHYS 314	Electrodynamics II
PHYS 315	Introduction to Modern Optics
PHYS 324	Statistical and Thermal Physics
PHYS 370	Introduction to Astrophysics
PHYS 421	Quantum Mechanics I
PHYS 422	Quantum Mechanics II
PHYS 430	Advanced Physics Laboratory
PHYS 450	Solid State Physics
PHYS 461	Introduction to Nuclear Physics
PHYS 463	Introduction to Elementary Particle Physics
PHYS 473	Mathematical Methods of Physics II
PHYS 480A	Topics in Classical Physics: Mechanics
PHYS 480B	Topics in Classical Physics: Electrodynamics
PHYS 485A	Topics in Contemporary Physics
PHYS 573	Mathematical Methods of Physics III

Twelve units of mathematics electives selected from the following with 12 at least one four unit course chosen from 500-level

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
MATH 595D	Independent Study
<hr/>	
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;
3. Submission of a completed M.A. in Mathematics application form;
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;"

- Submit a formal program of graduate work prepared in consultation with and approved by the departmental graduate committee;
- Gain final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

## Requirements for Graduation

- Advancement to candidacy for the degree;
- A minimum of 48 quarter units of acceptable graduate level work as specified below in the formal program;
- No less than 34 units completed in residence at this university;
- 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;
- 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-;"
- Submit a portfolio containing the following items:
  - A copy of the approved Advancement to Candidacy form,
  - Three examples of exemplary solutions to problems in the student's classes,
  - 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.
  - An announcement of the seminar at which the student presents the project,
  - An abstract of the thesis,
  - A completed student questionnaire;
- 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:

- 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
- A teaching credential;
- Submission of a completed Master of Arts in Teaching with a major in Mathematics (MAT) application form;
- Completion of the graduate entrance writing requirement;
- Three letters of recommendation;
- Submission of a one- or two-page typewritten statement of the student's area of interest, preparation for study in this program and professional goals;
- 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)

### Core courses (44)

MATH 631	Algebra from a Teaching and Problem Solving Perspective	6
MATH 632	Geometry from a Teaching and Problem Solving Perspective	6
MATH 633	Trigonometry from a Teaching and Problem Solving Perspective	6
MATH 634	Calculus from a Teaching and Problem Solving Perspective	6
MATH 635	Statistics and Probability from a Teaching and Problem Solving Perspective	6
Four units chosen from the following based on department approval:		
ESEC 672 or EDSC 643	Educational Assessment in Mathematics Teaching Assessment in the Science Classroom	4
EDUC 607	Introduction to Educational Research	4
EDUC 601B or MATH 695B	Advanced Independent Study Topics in Education Graduate Independent Study	2
EDUC 600 or MATH 699	Masters Degree Master of Arts in Teaching Mathematics Thesis	4
MATH 601	Assessment Portfolio	0

### 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

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
Choose one of the following groups:		12-16
Total Units		34-38

### Group A

MATH 270	Elementary Differential Equations	4
MATH 355	Analysis and Proof	4
MATH 470	Ordinary Differential Equations	4

### Group B

MATH 270	Elementary Differential Equations	4
MATH 331	Linear Algebra	4
MATH 470	Ordinary Differential Equations	4

### 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:	2
CSE 201 Computer Science I	
MATH 241 Problem Solving in Calculus	
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
<b>Upper-division requirements (12)</b>	
MATH 331 Linear Algebra	4
MATH 345 Number Theory and Proof or MATH 355 Analysis and Proof	4
Four units chosen from upper-division elective course work in mathematics courses applicable to the major.	4
<b>Total Units</b>	<b>34</b>

## 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

### Upper-division requirements (20)

ECON 300 Intermediate Macroeconomics	4
ECON 302 Intermediate Microeconomics	4
MATH 320 Mathematical Interest Theory	4
MATH 372 Combinatorics	4
MATH 465 Probability Theory	4
<b>Total Units</b>	<b>50</b>

## 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:

A1: Algebra	
MATH 110	College Algebra
MATH 192	Methods of Calculus
or MATH 211	Basic Concepts of Calculus
MATH 211	Basic Concepts of Calculus
A2: Advanced Algebra	
MATH 120	Pre-Calculus Mathematics
MATH 192	Methods of Calculus
or MATH 211	Basic Concepts of Calculus

MATH 212	Calculus II	
MATH 272	Discrete Mathematics	
<b>A3 : Geometry</b>		
MATH 192	Methods of Calculus	
or MATH 211	Basic Concepts of Calculus	
MATH 212	Calculus II	
MATH 229	Geometry in Two and Three Dimensions	
<b>A4: Probability and Statistics</b>		
MATH 115	The Ideas of Mathematics	
MATH 262	Applied Statistics	
or MATH 165	Introductory Statistics and Hypothesis Testing	
<b>A5 : Development of the Real Number System</b>		
MATH 192	Methods of Calculus	
or MATH 211	Basic Concepts of Calculus	
MATH 212	Calculus II	
MATH 301A	Fundamental Concepts Mathematics Educators: Fundamental Concepts Arithmetic and Geometry	
<b>Electives (28)</b>		
Select an additional 28 units from other courses listed above not already taken (unless restricted between two courses), or from the following courses:		28
MATH 180	Critical Thinking Through Applications of Mathematical Logic	
MATH 199	Problem Solving for Teachers Using Technology	
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	
MATH 308	Problem Solving Through Theory and Practice	
<hr/> 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

Ph.D. 2000, California Institute of Integral Studies

Paula Spencer, Lecturer  
B.S.N. 2004, Brigham Young University

Dwight P. Sweeney, Professor  
A.B. 1970, University of Notre Dame  
M.A. 1971, Ph.D. 1981, University of Michigan

Asma Taha, Associate Professor  
B.S.N. 1989, Jordan University  
M.S.N. 2004, Ph.D. 2009, Azusa Pacific University

Kathyrne Tiras, Lecturer  
MSN, Loma Linda University, 2009

Anna Wilson, Lecturer  
B.S.N. 1997, M.S.N. 1999, University of Phoenix

## Emeriti

Dorothy Johnson, Professor

Janice Layton, Professor

Lynne Leach, Professor

Mary L. McGregor, Associate Professor

Mary E. Molle, Professor

Mary G. Patterson, Professor

Del LaVerne Watson, Professor

Donna M. Ziebarth, Associate Professor

## Undergraduate Degrees

### Bachelor of Science

*Accredited by the Commission on Collegiate Nursing Education (CCNE)*

- Nursing (p. 641)
- RN to BSN Bridge Program (p. 642)

### Graduate Degree

- Master of Science in Nursing (p. 644) with concentrations in
  - Academic Nursing Education
  - Advanced Community/Public Health Nursing
  - Population-Based Nursing
  - School Nursing

## 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-aged 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-aged 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 Nursig 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 health-care 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

Evolution of professional nursing. Trends in health care and nursing.

Impact of ethical, legal, political, and economic forces upon health care and nursing. Formerly NURS 350.

**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 the 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 681. 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 682. 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 688. 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 major program faculty advisor.

**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 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.

### **NURS 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.

### **NURS 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.

### **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 student's advisor and one other faculty member teaching in the program. Candidates failing must retake the exam within one year, and must consult with their advisor to discuss actions necessary for remediation of shortcomings. Graded credit/no credit.

## **Bachelor of Science in Nursing**

**Requirements (127 units)**

**Total units required for graduation: 180**

### **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.

- Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.
- Nursing students must carry malpractice insurance in the amount of not less than \$1,000,000 per occurrence and \$3,000,000 per year or more in order to be admitted to clinical courses.
- 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.
- Students must have current Health Insurance. See Department for instructions.
- Students must have a current background check prior to their clinical experience. See Department for instructions.
- Students must have access to insured transportation for their clinical experience.
- Clothing required by the clinical facility appropriate for that setting must be provided by the students with appropriate identification by name and school. (Name pin and arm patch are available for purchase at the Coyote Bookstore.)
- Advisement with a faculty member is recommended prior to registration each quarter. Advisement is required prior to registration for spring quarter.
- Students must participate in the department competency assessment program.

## Degree Requirements

### Prerequisite support courses required for admission (36)

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
COMM 120	Oral Communication	4
MATH 165	Introductory Statistics and Hypothesis Testing	4
One critical thinking course that satisfies category A4 in the General Education Program.		4
Freshman Composition (G.E.). Four units chosen from:		4
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	

### Support courses required which may be taken after admission to the nursing major (8)

PSYC 201	Developmental Psychology	4
One integrative capstone course that meets the multicultural/ gender requirement in the general education program		4

### Lower-division requirements (22)

NURS 200	Foundations of Nursing Process, Roles and Skills	4
NURS 201	Foundations of Nursing Process, Roles and Skills: Laboratory	3
NURS 204	Beginning Nursing Process, Roles and Skills	4

NURS 205	Beginning Nursing Process, Roles and Skills: Laboratory	3
NURS 220	Intermediate Nursing Process, Roles and Skills	4
NURS 221	Intermediate Nursing Process, Roles and Skills: Laboratory	4

### Upper-division requirements (61)

NURS 316	Health Assessment	4
NURS 322	Advanced Nursing Process, Roles and Skills	3
NURS 323	Advanced Nursing Process, Roles and Skills: Laboratory	4
NURS 332	Families and Children	4
NURS 333	Families and Children: Laboratory	3
NURS 334	Maternal Child and Womens Health	4
NURS 335	Maternal Child and Womens Health: Laboratory	3
NURS 340	Theories of Nursing	2
NURS 380	Pathophysiological Concepts as Applied to Nursig Practices	4
NURS 382	Pharmacology and Therapeutics for Nursing Practice	2
NURS 400	Psych/Mental Health Nursing	4
NURS 401	Psych/Mental Health Nursing: Activity	4
NURS 404	Leadership in Nursing: Nursing Management	4
NURS 405	Leadership in Nursing: Clinical	4
NURS 406	Community/Public Health Nursing	4
NURS 407	Community/Public Health Nursing: Clinical	4
NURS 422	Nursing Research	4

Total Units 127

## Bachelor of Science in Nursing - RN to BSN Bridge Program

### Requirements (180 units)

Total units required for graduation: 180

### Department Regulations

- Admission requirements
  - A grade point average of 3.0 or better in prerequisite support courses listed below;
  - A grade point average of 3.0 or better in the A.D.N. program or diploma program;
  - Submission of an active California Registered Nurse (RN) License;
  - Submission of RN screening form and all transcripts;
  - Application to CSUSB with second set of transcripts;
  - Students who are close to these standards may be admissible upon remediation.
- This program assumes all lower-division general education requirements have been met. The IGETC is valuable, but not required. Some lower division general education courses can be completed while the B.S. in Nursing program is in progress, but this will extend time to graduation.
- Sixteen units of upper-division General Education courses are required (see General Education Program (p. 47) 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.

NURS 352	The Nurse as a Teacher	4
Must choose one course from the General Education Capstone categories of B4, C5, or D5		
<b>Third Quarter</b>		
NURS 341B	Professional Writing: Project Identification	2
NURS 346	The Nurse as a Member of the Community	4
NURS 347	The Nurse as a Member of the Community: Activity	4

**Prerequisite Support Courses (36)**

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
COMM 120	Oral Communication	4
MATH 165	Introductory Statistics and Hypothesis Testing	4
One critical thinking course that satisfies category A4 in the General Education Program		4
Freshman Composition (GE). Four units chosen from:		4
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	

NURS 353	Global Nursing	4
Elective		
<b>Fourth Quarter</b>		
NURS 341C	Professional Writing: Study Design	2
NURS 443	The Nurse as a Counselor	4
NURS 444	Nurse as Expert Clinician	4
Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously		
<b>Fifth Quarter</b>		
NURS 341D	Professional Writing: Project Completion	2

**Support courses which may be taken after admission to the Nursing major (8)**

PSYC 201	Developmental Psychology	4
One integrative capstone course that meets the multicultural/gender requirement in the general education program		4

NURS 445	The Nurse as a Change Agent	4
NURS 375 or 595D	Cooperative Education	4

<b>First Quarter</b>		<b>Units</b>
NURS 341A	Professional Writing: Introduction	2
NSCI 306	Expository Writing for the Natural Sciences	4
NURS 343	The Nurse as a Researcher	4
NURS 350	Nursing Theories	4
<b>Second Quarter</b>		
NURS 344	The Nurse as a Leader	4
NURS 345	The Nurse as an Advocate: Family Concepts	4

Must choose one course from the General Education Capstone categories of B4, C5, or D5 in a category not taken previously		
<b>Sixth Quarter</b>		
NURS 494	Senior Seminar	4
NURS 446	Senior Seminar in Dietetic Education	6
NURS 483	The Nurse as a Lifelong Learner: Advanced Practice Models	4
Elective		2

Total Units: 90

# Master of Science in Nursing

## Requirements: Academic Nursing Education (53-57 units)

## Advanced Community/Public Health Nursing (59-63 units)

## Population-Based Nursing (45 units)

## School Nursing (57-61 units)

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing with a clinical focus in population-based (advanced public/community health) nursing. The program is designed to educate professional nurses for leadership and service in culturally diverse, pluralistic communities.

Graduates of the MS program will work collaboratively with other health care providers and participate effectively in interdisciplinary models of health care delivery. They are prepared to assume leadership roles in the creation of health care systems which will provide equality of access, high standards of care and caring, and the cost-effective use of resources.

The Academic Education concentration prepares Nursing Faculty to teach in Nursing Programs at both community and four-year universities. This program is also appropriate for advanced practice nurses interested in population health education and health education programming.

The School Nursing concentration meets the California State requirements for the School Nurse Credential. The graduate will concurrently receive the Master of Science in Nursing and the School Nurse Credential. Additional requirements needed for MSN include:

1. NURS 635 Biostatistics for Public/Community Health Nursing
2. Culminating Project, Thesis or Comprehensive Examination)

Graduates who complete the Advanced Public/Community Health Option are prepared for National Board Certification in Public Health Nursing.

The Special Teaching Authorization in Health (STAH) option is available to school nurses who wish to position themselves to become faculty of record for health classes within public school districts. The STAH is not required for the credential and is available to master's students as well as nurses in the community who are already credentialed. The STAH authorizes nurses to provide health education instruction beyond that of periodic guest presentation and allows school administrators to utilize nurses in the capacity of health educators through the provision of direct and regular health instruction. Requirements for the STAH are completion of 14 units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test). Application for the STAH requires an Exit Interview.

Graduates who complete the Advanced Public/Community Health Option are prepared for National Board Certification (AACN) in Advanced Public Health Nursing.

## Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree in nursing from an accredited program, OR a baccalaureate degree in a discipline related to nursing. Applicants with non-nursing baccalaureate degrees must meet competencies

in research, leadership, and community health. Competency may be verified through coursework, testing or certification;

2. A grade point average of 3.0 ("B") in the last 60 semester (90 quarter) units attempted;
3. Current licensure to practice nursing in California (RN);
4. Professional and/or academic competence in nursing attested through three personal recommendations;
5. Successful completion of an upper-division undergraduate statistics course;
6. Completion of NURS 601 Preparation for MSN Learning with Technology;
7. Completion of the graduate entrance writing requirement.

## Department Regulations

1. MSN students must carry malpractice insurance in the amount of not less than \$1,000,000 per occurrence and \$3,000,000 per year or more in order to be admitted to clinical courses;
2. Prior to the first clinical course and yearly thereafter, students must submit a medical report of a recent physical examination, including tuberculosis skin testing, indicating that they are able to engage in activities required to meet the expectations of the program. Exams are available through the Student Health Center for a fee. Immunizations are required. Contact the Department of Nursing for more information;
3. Students must have current Health Insurance. See Department for instructions;
4. Students must have a current background check prior to their clinical experience. See Department for instructions;
5. Students must have access to insured transportation for their clinical experience;
6. A current Cardiopulmonary Resuscitation card, American Heart Association (AHA) Health Care Provider. Students pursuing the School Nurse Credential must also meet the following requirements:
  7. A current First Aid card;
  8. Completion of state approved audiometry course.

## Recommendation for the School Nurse Credential

In order to be recommended for a credential, the student must have:

1. Completed all prescribed coursework with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary Resuscitation card.

## Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 30 quarter units of course work with a minimum grade point average of 3.0 ("B");
3. Been accepted by a major advisor for the Department of Nursing who will also accept chairing the student's project/thesis committee;
4. Filed an approved program for completion of the graduate degree. This program must be prepared in consultation with the major advisor and approved by the Program Coordinator and the Dean of Graduate Studies;

5. Demonstrated professional competence and integrity in academic and clinical practice settings.

## Requirements for Graduation

In addition to the general requirements of the university:

1. Advancement to candidacy for the MS degree in nursing;
2. A minimum of 45-63 quarter units of designated courses depending on the concentration(s) selected, as approved on the petition for advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements for the M.S. in Nursing, and grades of "C" (2.0) or better in all elective courses;
4. Choose A, B or C below as required by the concentration:
  - a. Completion and presentation of an acceptable clinical project;
  - b. Completion and defense of an acceptable thesis;
  - c. Completion of NURS 999 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)

NURS 600	Population Health Assessment	6
NURS 610	Program Planning and Evaluation	6
NURS 620	Health Policy Leadership	6
NURS 630	Advanced Nursing Roles	3
NURS 635	Biostatistics for Public/Community Health Nursing	4
NURS 645	Advanced Nursing Research	4
NURS 655	Advanced Nursing Theory	4
NURS 688	Advanced Role Practicum	2
NURS 646	Epidemiology	4

### Concentrations (6-24)

Choose one of the following concentrations:	6-24
Total Units	45-63

## Academic Nursing Education (14-18 units)

NURS 658	Nursing Education: Curriculum and Instruction	4
NURS 659	Assessment and Evaluation in Nursing Education	4
NURS 660	Instructional Technology in Nursing Education	4
One of the following culminating sequences:	2-6	
Clinical Project:		
NURS 697	Clinical Project in Nursing	
Thesis Research:		
NURS 699	Thesis Research in Nursing	

Comprehensive Examination:

NURS 690	Preparation for Comprehensive Examination
NURS 999	Comprehensive Examination

Total Units 14-18

## Advanced Community/Public Health Nursing (20-24 units)

NURS 681	Advanced Public/Community Health Internship I	3
NURS 682	Advanced Public/Community Health Internship II	3

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:

NURS 697	Clinical Project in Nursing
----------	-----------------------------

Thesis Research:

NURS 699	Thesis Research in Nursing
----------	----------------------------

Comprehensive Examination:

NURS 690	Preparation for Comprehensive Examination
NURS 999	Comprehensive Examination

Total Units 20-24

## Population-Based Nursing (6 units)

NURS 690	Preparation for Comprehensive Examination	2
& NURS 999	and Comprehensive Examination	

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

## School Nursing (18-22 units)

Includes 47 units of the School Nurse Credential

NURS 502	Advanced Physical/Health Assessment of Children and Adolescents	4
NURS 503	Principles of School Nursing Practice	4
NURS 658	Nursing Education: Curriculum and Instruction	4
ESPE 530	Introduction to Special Education	4

One of the following culminating sequences: 2-6

Clinical Project:

NURS 697	Clinical Project in Nursing
----------	-----------------------------

Thesis Research:

NURS 699	Thesis Research in Nursing
----------	----------------------------

Comprehensive Examination:

NURS 690	Preparation for Comprehensive Examination
NURS 999	Comprehensive Examination

Total Units 18-22

## Special Teaching Authorization in Health (STAH) (14)

NURS 659	Assessment and Evaluation in Nursing Education	4
NURS 660	Instructional Technology in Nursing Education	4
NURS 681	Advanced Public/Community Health Internship I	3
NURS 682	Advanced Public/Community Health Internship II	3

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) 537-5397 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:

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5

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. 650)

### Bachelor of Science

- Physics (p. 650)
- Applied Physics (p. 651)

## Minors

- Physics (p. 651)
- Applied Physics (p. 651)

## 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' 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 PHY 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 Schroedinger 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 585B. Internship in Physics. 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. Internship in Physics. 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. Internship in Physics. 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 590. Physics Seminar. 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 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 physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

**PHYS 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 physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

**PHYS 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 physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation.

**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****Lower-division requirements (53)**

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

**Upper-division requirements (29)**

MATH 331	Linear Algebra	4
PHYS 306	Classical Mechanics I	4
PHYS 313	Electrodynamics I	4
PHYS 324	Statistical and Thermal Physics	4
PHYS 373	Mathematical Methods of Physics I	4
PHYS 398	Junior Assessment	1
PHYS 421	Quantum Mechanics I	4
PHYS 430	Advanced Physics Laboratory	4

**Electives (7)**

Seven units chosen from upper-division physics courses selected with the approval of the department: 7

PHYS 307	Classical Mechanics II
PHYS 314	Electrodynamics II
PHYS 315	Introduction to Modern Optics
PHYS 318	Materials Science and Engineering
PHYS 370	Introduction to Astrophysics

PHYS 422	Quantum Mechanics II
PHYS 450	Solid State Physics
PHYS 461	Introduction to Nuclear Physics
PHYS 463	Introduction to Elementary Particle Physics
PHYS 473	Mathematical Methods of Physics II
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

Total Units 89

**Bachelor of Science in Physics**

Requirements (107 units)

Total units required for graduation: 180

**Requirements for the B.S. in Physics****Lower-division requirements (53)**

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

**Upper-division requirements (45)**

MATH 331	Linear Algebra	4
PHYS 306	Classical Mechanics I	4
PHYS 307	Classical Mechanics II	4
PHYS 313	Electrodynamics I	4
PHYS 314	Electrodynamics II	4
PHYS 324	Statistical and Thermal Physics	4
PHYS 373	Mathematical Methods of Physics I	4
PHYS 398	Junior Assessment	1
PHYS 421	Quantum Mechanics I	4
PHYS 422	Quantum Mechanics II	4
PHYS 430	Advanced Physics Laboratory	4
PHYS 473	Mathematical Methods of Physics II	4

**Electives (9)**

five or more units chosen from upper-division physics courses selected with the approval of the department: 5

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.		4
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)

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
CSE 201	Computer Science I	4
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
PHYS 150	Introductory Electronics	5
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

#### Upper-division requirements (45)

MATH 331	Linear Algebra	4
PHYS 306	Classical Mechanics I	4
PHYS 313	Electrodynamics I	4
PHYS 314	Electrodynamics II	4
PHYS 318	Materials Science and Engineering	4
PHYS 324	Statistical and Thermal Physics	4
PHYS 350	Data Acquisition and Control	4
PHYS 352	Advanced Electronics	4
PHYS 373	Mathematical Methods of Physics I	4
PHYS 398	Junior Assessment	1
PHYS 421	Quantum Mechanics I	4

PHYS 430	Advanced Physics Laboratory	4
Total Units		107

## Minor in Applied Physics

Requirements (54 units)

### Requirements for a minor in Applied Physics

#### Lower-division requirements (42)

CSE 201	Computer Science I	4
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 251	Multivariable Calculus I	4
PHYS 150	Introductory Electronics	5
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

#### Upper-division requirements (12)

PHYS 350	Data Acquisition and Control	4
PHYS 352	Advanced Electronics	4
PHYS 373	Mathematical Methods of Physics I *	4
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)

MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3
PHYS 225	General Physics V	3

#### Upper-division requirements (20)

PHYS 306	Classical Mechanics I	4
PHYS 313	Electrodynamics I	4
PHYS 324	Statistical and Thermal Physics	4
PHYS 373	Mathematical Methods of Physics I	4
PHYS 421	Quantum Mechanics I	4

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, computer programming, information processing, data communication, machine intelligence, robotics, the algorithmic solution of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and display information, algorithms to process information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and cost effectiveness of these processes and the philosophical foundations of computing and machine intelligence.

The Bachelor of Science in Computer Science is a degree program accredited by ABET/CAC guidelines, and as such provides both intellectual depth and breadth in the discipline of computer science. The program emphasizes both fundamentals of computer science and the skills required to apply computer science to application areas, as well as professional ethics. The objective of the program is to prepare the student upon graduation for: immediate entry into a programming, software engineering, systems and network administration or similar position in either the public or private sectors; or for graduate education in computer science or a closely related discipline leading to a Master or Doctoral

degree. Graduates of the program have been successful both in industry and in graduate school.

The Bachelor of Arts in Computer Systems program emphasizes the application of principles to practical problem solving in a domain of interest. Students complete a core set of foundation courses and coursework in one of the following concentrations: web programming, system administration, game development, graphics programming. Students also have the ability to combine the study of computer systems with another field of study through the general interdisciplinary option.

The Bachelor of Science in Computer Engineering is a discipline with historical foundations in computer science and electrical engineering. It is concerned with the study of a variety of topics including circuit design, programmable logic, computer design, computer programming, software engineering, data communication, machine intelligence, robotics, the algorithmic solutions of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and manipulate information, algorithms to process information, hardware systems and technologies to run software, design methodologies for hardware and software systems, and engineering techniques for ensuring the accuracy and cost effectiveness of these processes. The degree is jointly administered by the School of Computer Science and Engineering and the Department of Physics. The program is housed in the School of Computer Science and Engineering.

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-Goethe 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. 661) with options in:
  - General Interdisciplinary
  - Game Development
  - Graphics Programming
  - Web Programming
  - System Administration

### Bachelor of Science

- Bioinformatics (p. 550)
- Computer Engineering (p. 662)
- Computer Science (p. 662)

### Graduate Degree

- Master of Science in Computer Science (p. 663)

### Minor

- Computer Science (p. 665)

### Certificate Program

- Computer Systems and Programming (p. 665)

## 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, game play and presentation. The process by which game concepts are transformed into actual computer games, including the use of scripting languages to incorporate sound and graphics into a game, design documents, project management, evaluation, game play parameters and artificial intelligence. Several examples will be used to demonstrate game design concepts and practice. One hour lecture and two hours laboratory. Material 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 with a grade of C or better 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 with grade of C or better 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 and MATH 331

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: CSE 330

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: CSE 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: CSE 313 and CSE 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: 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, push-down 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: CSE 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: CSE 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: CSE 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: CSE 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: CSE 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 multicompiler programming, and real-time visualization programming of computationally intensive problems in the sciences.

**CSE 525. Parallel Algorithms and Programming. 4 Units.**

Prerequisites: CSE 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 431 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.

### **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 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 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 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 535 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 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 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 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

## Requirements for the B.A. in Computer Systems

### Lower-division requirements (20)

CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
MATH 211	Basic Concepts of Calculus	4
MATH 262	Applied Statistics	4
MATH 272	Discrete Mathematics	4

### Upper-division requirements (26)

CSE 313	Machine Organization	4
CSE 322	Web Page Programming	4
CSE 330	Data Structures	4
CSE 455	Software Engineering	4
CSE 482	Senior Interdisciplinary Project	4
CSE 488	Ethics and the Computing Professional	2
COMM 311	Business and Professional Communication	4

### Option Requirement (48-50)

Requirements for one of the following options must be satisfied	48-50
Total Units	94-96

## General Interdisciplinary Option (48)

Twenty-four units chosen from CSE courses numbered 300 and above.	24
Twenty-four units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering.	24
Total Units	48

## Game Development Option (49)

CSE 420	Computer Graphics	4
CSE 440	Game Design	4
CSE 441	Game Programming	4
CSE 520	Advanced Computer Graphics	4
MATH 212	Calculus II	4
MATH 251	Multivariable Calculus I	4
MATH 331	Linear Algebra	4
Four units chosen from CSE courses numbered 300 and above.	4	
PHYS 121	Basic Concepts of Physics I	5
or PHYS 221	General Physics I	
Twelve units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development. Subject to approval by the School of Computer Science and Engineering.	12	
Total Units	49	

## Graphics Programming Option (48)

ART 120	Introduction to Two Dimensional Design	4
ART 232	Principles of Design Management	4
CSE 420	Computer Graphics	4
CSE 440	Game Design	4
CSE 441	Game Programming	4
CSE 520	Advanced Computer Graphics	4

MATH 212	Calculus II	4
MATH 251	Multivariable Calculus I	4
MATH 331	Linear Algebra	4
Twelve units of additional art courses. Subject to the approval by the School of Computer Science and Engineering		12
Total Units		48

### Web Programming Option (48)

CSE 292	JAVA Programming	4
CSE 360	Script Programming	4
CSE 365	Systems Administration	4
CSE 366	Systems Networking	4
CSE 405	Server Programming	4
CSE 572	Database Systems	4
CSE 580	Advanced Database Systems	4
Twelve units chosen from CSE courses numbered 300 and above.		12
Eight units of art courses. Subject to approval by the School of Computer Science and Engineering.		8
Total Units		48

### System Administration Option (50)

CSE 292	JAVA Programming	4
CSE 310	Digital Logic	5
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 461	Advanced Operating Systems	4
CSE 572	Database Systems	4
Eight units chosen from CSE courses numbered 300 and above.		8
Total Units		50

## Bachelor of Science in Computer Engineering

### Requirements (132 units)

Total units required for graduation: 187

Students in this degree program do not need to take courses in the General Education categories A4 Critical Thinking and D4 Discipline Perspectives

### Requirements for the B.S. in Computer Engineering

#### Lower-division requirements (67)

CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
CSE 208	Introduction to Computer Engineering Design	2

MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
MATH 251	Multivariable Calculus I	4
MATH 252	Multivariable Calculus II	4
MATH 262	Applied Statistics	4
MATH 272	Discrete Mathematics	4
PHYS 150	Introductory Electronics	5
PHYS 221	General Physics I	5
PHYS 222	General Physics II	5
PHYS 223	General Physics III	5
PHYS 224	General Physics IV	3

#### Upper-division requirements (57)

CSE 308	Computer Engineering Design	3
CSE 310	Digital Logic	5
CSE 311	Advanced Digital Design	4
CSE 313	Machine Organization	4
CSE 330	Data Structures	4
CSE 401	Contemporary Computer Architecture	5
CSE 403	Circuit Design and Analysis	4
CSE 408	Sustainable Engineering Design	4
CSE 460	Operating Systems	4
CSE 535	Numerical Computation	4
PHYS 318	Materials Science and Engineering	4
or PHYS 352	Advanced Electronics	
PHYS 350	Data Acquisition and Control	4
PHYS 373	Mathematical Methods of Physics I	4
CSE 455	Software Engineering	4
or CSE 558	Requirements Analysis and Design	

#### 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	Compliers

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: 187

Students in this degree program do not need to take a course in the General Education category A4 Critical Thinking

## Requirements for the B.S. in Computer Science

### Lower-division requirements (53)

CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
MATH 211	Basic Concepts of Calculus	4
MATH 212	Calculus II	4
MATH 213	Calculus III	4
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 or BIOL 200	Topics in Biology Biology of the Cell	5
One additional science course (with lab component), not previously taken, from the following areas:		5
Biology		
Chemistry		
Geological Sciences		
Physics		

### Upper-division requirements (70)

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
CSE 570	Compilers	4
MATH 372	Combinatorics	4
CSE 455 or CSE 555	Software Engineering Software Design and Architecture	4
Sixteen units chosen from CSE 400-level and above courses and not previously taken.		16
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)

CSE 602	Computation and Complexity Theory	4
CSE 610	Modern Computer Architecture	4
CSE 630	Theory of Algorithms and Their Analysis	4
CSE 655	Software Engineering Concepts	4
CSE 660	Operating Systems Concepts and Theory	4
Twenty-five units from one of the following options:		25
Total Units		45

## Examination Option

CSE 689	Comprehensive Examination	1
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.		24
Total Units		25

## Project Option

CSE 690B-E	Masters Project (2-5 units for a total of 5)	5
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.		20
Total Units		25

## Thesis Option

CSE 699B-F	Thesis (2-5 units for a total of 9)	9
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.		16
Total Units		25

## Minor in Computer Science

### Requirements (28 units)

### Requirements for a minor in Computer Science

MATH 272	Discrete Mathematics	4
or MATH 372	Combinatorics	
CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
CSE 330	Data Structures	4
Twelve units of upper-division CSE courses.		12
Total Units		28

## 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

MATH 272	Discrete Mathematics	4
or MATH 372	Combinatorics	
CSE 201	Computer Science I	4
CSE 202	Computer Science II	4
CSE 330	Data Structures	4
Twelve units of upper-division CSE courses.		12
Total Units		28

# 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. 674)
  - Credential Track (p. 673)

**Coordinator:** Tom Long

#### Graduate Degree

- Master of Arts in Social Sciences and Globalization (p. 778)
 

**Coordinator:** Cherstin Lyon
- Master of Arts in National Security Studies (p. 776)
- Master of Science in National Cyber Security Studies (p. 782)

#### Minors

- Ethnic Studies (p. 785) 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. 787)

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. 787)

**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. 679)
 

**Coordinator:** Kevin Grisham
- Native Nations/Indigenous Peoples Studies (p. 680)
 

**Coordinator:** James Fenelon

### Programs

- Aerospace Studies (Air Force ROTC) (p. 672)
- Military Science (Army ROTC) (p. 784)

### 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.

**AS 401. National Security Forces in Contemporary American Society I. 3 Units.**

Forces and issues that influence policy decisions and application of military force. The impact of the executive branch and Congress on military operations.

**AS 402. National Security Forces in Contemporary American Society II. 3 Units.**

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.

**Ethnic Studies Courses****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.**

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 100. Introduction to the Social Sciences. 2 Units.**

Survey of different disciplines within the social sciences and their corresponding research methodologies. Incorporates elements of anthropology, economics, political science, sociology, history, psychology, and geography. Presents a unified approach to the issues within social sciences.

**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)

AS 90	Leadership Laboratory (required every quarter)	0
-------	--	---

AS 101	The Air Force Today I	1
AS 102	The Air Force Today II	1
AS 103	The Air Force Today III	1
AS 201	The Development of Air Power I	1
AS 202	The Development of Air Power II	1
AS 203	Air Force Ethics	1

#### 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)

AS 90	Leadership Laboratory (required every quarter)	0
AS 301	Air Force Leadership and Management I	3
AS 302	Air Force Leadership and Management II	3
AS 303	Air Force Leadership and Management III	3
AS 401	National Security Forces in Contemporary American Society I	3
AS 402	National Security Forces in Contemporary American Society II	3
AS 403	National Security Forces in Contemporary American Society III	3

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)

AS 90	Leadership Laboratory (required every quarter)	0
AS 301	Air Force Leadership and Management I	3
AS 302	Air Force Leadership and Management II	3
AS 303	Air Force Leadership and Management III	3
AS 401	National Security Forces in Contemporary American Society I	3
AS 402	National Security Forces in Contemporary American Society II	3
AS 403	National Security Forces in Contemporary American Society III	3

Total Units 18

# Bachelor of Arts in Social Sciences - Credential Track

## Requirements (101-102 units)

### Total units required for graduation: 180

Students who wish to teach social science subjects in California's secondary schools will have to be classified as "highly qualified" teachers as required by federal No Child Left Behind guidelines. In order to meet this qualification they will have to pass the California Subject Examination for Teachers (CSET), which encompasses knowledge and understanding primarily of history, but also geography, economics, and political science. Passing this exam means that the prospective teacher is considered to be "highly qualified" in each of these four subject areas. One effective way to be prepared to pass the exam is to complete the B.A. in Social Sciences, Credential Track. The core discipline in the program is history, as that is the most widely taught social science subject in secondary schools. In addition to this concentration, students have options in the other three disciplines of geography, economics, or political science. Any of these options would add 32-36 units to the 101-102 units needed for the core history program.

Students in the Credential Track are encouraged to see their Social Science advisor early in their program for assistance in choosing courses. For information about the professional education component or admission to the teacher education program, contact the Credentials Office, CE-102.

## Requirements for the B.A. in Social Sciences - Credential Track

### Lower-division requirements (47)

ANTH 140	World Civilizations I, the Rise of Civilization	4
or HIST 140	World Civilizations I, the Rise of Civilization	
ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
GEOG 100	Introduction to Human Geography	4
GEOG 103	Physical Geography	5
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
PHIL 192	Introduction to Philosophy of Religion	4
or PHIL 193	Introduction to Eastern Philosophy	
PSCI 203	American Government	4
SSCI 100	Introduction to the Social Sciences	2

### Upper-division requirements (50)

GEOG 302	Geography of California	4
HIST 370	History of California	4
Four units chosen from:		4
HIST 305	Ancient and Medieval Europe	
HIST 306	Early Modern Europe, the Renaissance to 1815	
HIST 307	Modern Europe, 1815 to the Present	
Four units chosen from:		4
HIST 320	History of Ancient Greece	
HIST 321	History of Rome	

HIST 400	Early Medieval Europe	
HIST 401	High Medieval Europe	
HIST 402	Renaissance and Reformation	
HIST 403	The Age of Absolutism and Enlightenment	
Eight units chosen from:		8
HIST 383	Classical Islamic Civilization	
HIST 384	Modern Middle East	
HIST 385	Africa to 1500	
HIST 386	Africa 1500 to 1870	
HIST 387	Africa 1870 to Present	
HIST 390	History of Modern Mexico	
HIST 426	Ancient and Early Imperial China	
HIST 428	Medieval China	
HIST 431	Modern China II, 1911-1949	
HIST 432	Modern China III, 1949-Present	
HIST 435	World War II in the Pacific	
HIST 440	Modern Japanese History	
HIST 450	History of Southern Africa	
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	
HIST 487	Topics in Modern Middle Eastern History	
Eight units chosen from:		8
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	United States History, Cold War Era	
HIST 540	Constitutional History of the United States	
HIST 556	Foreign Relations of the United States	
Four units chosen from:		4
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 371	California Indian History	
HIST 391	Chicano History	
HIST 541	U.S. Citizenship and the Law	
HIST 565	Immigration and Ethnic American History	
PSCI 330	State and Local Politics	4
Four units chosen from:		4
HUM 335	The Origin and Contemporary Role of Latino Culture	
HUM 350	The Cultures 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	

Four units chosen from: 4

PSCI 320	The Legislative Process	
PSCI 326	Political Parties and Interest Groups	
PSCI 431	The American Presidency	
PSCI 528	Formulation of Public Policy	
SSCI 499	Senior Seminar	2

**Data Collection and Analysis (4-5)**

A minimum of four units chosen from: 4-5

ECON 250	Statistics for Economists	
GEOG 305	Geographic Statistics and Research Methods	
PSYC 210	Psychological Statistics	
ADMN 210	Applied Business Statistics	

**Disciplinary Options (0)**

Students who wish to be considered a highly qualified teacher in another discipline should complete the coursework listed below in addition to those taken above (for a combined total of 48 units):

Total Units 101-102

**Economics Option**

ECON 335 Tools of Economic Analysis 4

ECON 500 History of Economic Thought 4

ECON 510 Economics in the Classroom 4

Four units chosen from: 4

ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 435	Multinational Corporations	
ECON 445	Political Economy	
ECON 450	Global Economy	

Four units chosen from: 4

ECON 360	Economics of the Environment	
ECON 372	Business Cycles	
ECON 390	Selected Topics in Economics	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 475	Public Economics	

Sixteen units of upper-division Economics courses 16

Total Units 36

**Geography Option**

GEOG 312 Geography of the Developing World 4

GEOG 313 Geography of the Developed World 4

GEOG 320 Geography of Social Issues 4

GEOG 322 United States and Mexico Border Issues 4

GEOG 323 North America 4

GEOG 350 Conservation and Natural Resources 4

GEOG 420 Geography of Economic Activity 4

GEOG 415 Urban Planning and Land Development 4

or GEOG 440 Understanding the City 4

Total Units 32

**Political Science Option**

PSCI 204 International Relations 4

PSCI 314 American Political Thought 4

Four units chosen from: 4

PSCI 300	Western Political Systems	
PSCI 304	East European Political Systems	
PSCI 306	Developing Political Systems	
PSCI 308	Government and Politics of the Middle East	

Four units chosen from: 4

PSCI 310	Classical Political Thought	
PSCI 311	Foundations of Modern Political Thought	
PSCI 313	Modern Political Thought	
PSCI 315	Post Modern Political Thought	

Four units chosen from: 4

PSCI 328	Judicial Process	
PSCI 410	American Constitutional Law	
PSCI 411	The Bill of Rights	
PSCI 412	Civil Rights	

Four units chosen from: 4

PSCI 325	American Foreign Policy	
PSCI 400	International Politics	
PSCI 500	International Law	
PSCI 510	International Organization	

Eight units chosen from: 8

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	

Four units of upper-division Political Science courses. 4

Total Units 36

**Bachelor of Arts in Social Sciences - Multidisciplinary Track****Requirements (64 to 67 units)****Total units required for graduation: 180**

A minimum of 32 to 33 units (primary) in one of the following fields, plus 16 to 17 units each (secondary) in two others:

- Anthropology
- Economics
- Ethnic Studies
- Geography
- History
- Islamic and Middle Eastern Studies
- Political Science
- Psychology
- Sociology

Of the 32 to 33 units comprising the primary field, no more than fourteen 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 the Registrar but is subject to revision by mutual consent. No more than 34 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 32 units, Secondary Field 16 units)

##### Primary Field (32)

ANTH 100	Introduction to Anthropology: Human Evolution	4
ANTH 102	Introduction to Anthropology: Culture and Society	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Four units chosen from:		4
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	
ANTH 315	Archaeology of the Southwest	
ANTH 323	Native North American Art	
ANTH 324	Pre-Columbian Art	
ANTH 400	Archaeological Theory and Method	
Four units chosen from:		4
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	
Four units chosen from:		4
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	
Eight units chosen from:		8
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 334	Anthropology and Film	
ANTH 375	Museum Methods	
ANTH 380	Gender and Language	
ANTH 388	Language and Culture	
ANTH 340	Anthropology of Health, Illness and Healing	
ANTH 341	Globalization and Culture	
ANTH 343	Magic, Religion and Science	
ANTH 472	Colonial and Postcolonial Anthropology	
ANTH 344	Applied Anthropology and Social Policy	
ANTH 345	Urban Anthropology	
ANTH 500	Senior Seminar in Anthropology	

##### Secondary Field (16)

ANTH 100	Introduction to Anthropology: Human Evolution	4
or ANTH 102	Introduction to Anthropology: Culture and Society	
Eight units chosen from:		8
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	
ANTH 315	Archaeology of the Southwest	
ANTH 320	Archaeological Survey and Excavation	
ANTH 323	Native North American Art	
ANTH 324	Pre-Columbian Art	
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	
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 334	Anthropology and Film	
ANTH 340	Anthropology of Health, Illness and Healing	
ANTH 341	Globalization and Culture	
ANTH 343	Magic, Religion and Science	
ANTH 344	Applied Anthropology and Social Policy	
ANTH 345	Urban Anthropology	
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	
ANTH 375	Museum Methods	
ANTH 376	Exhibit Design	
ANTH 380	Gender and Language	
ANTH 388	Language and Culture	

ANTH 390	Selected Topics in Anthropology:	
ANTH 391	Selected Topics in Anthropology	
ANTH 400	Archaeological Theory and Method	
Four units chosen from:		4
ANTH 472	Colonial and Postcolonial Anthropology	
ANTH 500	Senior Seminar in Anthropology	
ANTH 575B-E	Internship in Anthropology	
ANTH 576B-E	Internship in Museum Studies	
ANTH 577B-E	Internship in Archaeology	
ANTH 578B-E	Internship in Applied Cultural Anthropology	
ANTH 585	Fieldwork in Cultural Anthropology	
ANTH 590B-D	Selected Topics in Anthropology	
ANTH 595B-E	Independent Study	

## Economics

### (Primary Field 32 units, Secondary Field 16 units)

#### Primary Field (32)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
ECON 500	History of Economic Thought	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Four units chosen from applied field courses:		4
ECON 360	Economics of the Environment	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 460	Labor Economics	
ECON 475	Public Economics	
Four units chosen from political economy courses:		4
ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 421	Economic History of the United States	
ECON 445	Political Economy	
ECON 450	Global Economy	
ECON 520	Social Economics	

Eight units of additional upper-division economics course work. 8

#### Secondary Field (16)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
Eight units of additional upper-division economics course work.		8

## Ethnic Studies

### (Primary Field 32 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 (32)

ES 100	Ethnicity and Race in America	4
ES 300	Research Methods in Ethnic Studies	4

ES 394	Topics in Ethnic Studies	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Sixteen units chosen from:		16

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	African Societies	
ANTH 365	Asian American Cultures	
ANTH 388	Language and Culture	
ECON 352	Political Economy of Poverty and Discrimination	
ES 595A-D	Independent Study	
HIST 340	African-American History, 1620-1865	
HIST 341	African-American History, 1865-Present	
HIST 391	Chicano History	
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	

#### 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	African Societies	
ANTH 365	Asian American Cultures	
ANTH 388	Language and Culture	
ECON 352	Political Economy of Poverty and Discrimination	

ES 595A-D	Independent Study	
HIST 340	African-American History, 1620-1865	
HIST 341	African-American History, 1865-Present	
HIST 391	Chicano History	
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	

## Geography

### (Primary Field 33 units, Secondary Field 16 to 17 units)

#### Primary Field (33)

GEOG 100	Introduction to Human Geography	4
GEOG 103	Physical Geography	5
GEOG 420	Geography of Economic Activity	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2

Sixteen units of upper-division geography course work, except GEOG 16300 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 GEOG 300 or GEOG 311. Also, only four of these eight units of upper-division elective course work can be an area study.

## History

### (Primary Field 32 units, Secondary Field 16 units)

#### Primary Field (32)

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 United States History, Cold War Era

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 100 Introduction to the Social Sciences 2

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

#### 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

HIST 354 Civil War and Reconstruction

Select one of the following groups: 4-8

Group A:

HIST 201 United States History, 1877 to the Present

Group B:

Eight units chosen from:

HIST 356 The United States, 1877-1917

HIST 357 The United States, 1917-1945

HIST 359 United States History, Cold War Era

Total Units 8

#### Group 2

Select one of the following groups: 4-8

Group A:

HIST 306 Early Modern Europe, the Renaissance to 1815

Group B:

HIST 402 Renaissance and Reformation

HIST 403 The Age of Absolutism and Enlightenment

Select one of the following groups: 4-8

Group A:

HIST 307	Modern Europe, 1815 to the Present	
Group B:		
HIST 503	Europe Since 1945	
HIST 535	Studies in European National History	
Total Units		8

## Islamic and Middle Eastern Studies (Primary Field 32 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 Sciences major

### Primary Field (32)

ANTH 358	Peoples of the Middle East	4
HIST 383	Classical Islamic Civilization	4
HUM 375	The World of Islam	4
PSCI 308	Government and Politics of the Middle East	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Twelve units chosen from:		12
ANTH 303	Prehistory of the Middle East and Europe	
ARAB 370	Arabic Film and Culture	
ARAB 470D	Contemporary Issues in Arab Culture: Environmental Aspects	
ARAB 471	Media in the Arab World	
HIST 330	Topics in Oral History	
HIST 384	Modern Middle East	
HIST 480	History of Christianity I	
HIST 485	Arab-Israeli Conflict	
HIST 486	Modern Iran	
HIST 487	Topics in Modern Middle Eastern History	
HIST 491	Nationalism and Conflict in the Middle East	

### Secondary Field (16)

Eight units chosen from:		8
ANTH 358	Peoples of the Middle East	
HIST 383	Classical Islamic Civilization	
HUM 375	The World of Islam	
PSCI 308	Government and Politics of the Middle East	
Eight units chosen from:		8
ANTH 303	Prehistory of the Middle East and Europe	
ARAB 370	Arabic Film and Culture	
ARAB 470D	Contemporary Issues in Arab Culture: Environmental Aspects	
ARAB 471	Media in the Arab World	
HIST 330	Topics in Oral History	
HIST 384	Modern Middle East	
HIST 480	History of Christianity I	
HIST 485	Arab-Israeli Conflict	
HIST 486	Modern Iran	
HIST 487	Topics in Modern Middle Eastern History	
HIST 491	Nationalism and Conflict in the Middle East	

## Political Science

### (Primary Field 32 units, Secondary Field 16 units)

#### Primary Field (32)

PSCI 203	American Government	4
PSCI 204	International Relations	4
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Twenty units of upper-division course work with at least four units from each of the following five fields:		20

American Government and Politics. Four units chosen from:

PSCI 320	The Legislative Process	
PSCI 326	Political Parties and Interest Groups	
PSCI 431	The American Presidency	
PSCI 528	Formulation of Public Policy	
Comparative Government. Four units chosen from:		
PSCI 300	Western Political Systems	
PSCI 304	East European Political Systems	
PSCI 306	Developing Political Systems	
International Relations. Four 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. Four units chosen from:		
PSCI 310	Classical Political Thought	
PSCI 311	Foundations of Modern Political Thought	
PSCI 313	Modern Political Thought	
Public Law. Four units chosen from:		
PSCI 328	Judicial Process	
PSCI 410	American Constitutional Law	
PSCI 411	The Bill of Rights	

#### Secondary Field (16)

PSCI 204	International Relations	4
Twelve units of upper-division course work, four units chosen from three of the five fields listed below:		12
American Government and Politics. Four units chosen from:		
PSCI 320	The Legislative Process	
PSCI 326	Political Parties and Interest Groups	
PSCI 431	The American Presidency	
PSCI 528	Formulation of Public Policy	
Comparative Government. Four units chosen from:		
PSCI 300	Western Political Systems	
PSCI 304	East European Political Systems	
PSCI 306	Developing Political Systems	
International Relations. Four 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. Four units chosen from:		

PSCI 310	Classical Political Thought
PSCI 311	Foundations of Modern Political Thought
PSCI 313	Modern Political Thought
Public Law. Four units chosen from:	
PSCI 328	Judicial Process
PSCI 410	American Constitutional Law
PSCI 411	The Bill of Rights

## Psychology

### (Primary Field 33 units, Secondary Field 16 units)

#### Primary Field (33)

PSYC 100	Introduction to Psychology	4
PSYC 210	Psychological Statistics	5
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Eight units chosen from:		8
PSYC 201	Developmental Psychology	
PSYC 382	Psychology of Social Behavior	
PSYC 385	Personality	
PSYC 390	Abnormal Psychology	
Four units chosen from:		4
PSYC 360	Cognitive Psychology	
PSYC 362	Learning and Motivation	
PSYC 363	Biological Psychology	
PSYC 364	Perception	

Four units chosen from:		4
PSYC 315	Communication Processes	
PSYC 318	Health Psychology	
PSYC 351	Behavior Modification: Principles and Applications	
PSYC 355	Industrial Psychology	
PSYC 377	Tests and Measurements	
PSYC 386	Introduction to Psychotherapy	
PSYC 387	Community Psychology	
PSYC 575	Internship in Psychology	

Four units of upper-division psychology electives. 4

#### Secondary Field (16)

PSYC 100	Introduction to Psychology	4
Four units chosen from:		4
PSYC 201	Developmental Psychology	
PSYC 382	Psychology of Social Behavior	
PSYC 385	Personality	
PSYC 390	Abnormal Psychology	
Four units chosen from:		4
PSYC 360	Cognitive Psychology	
PSYC 362	Learning and Motivation	
PSYC 363	Biological Psychology	
PSYC 364	Perception	

Four units chosen from:		4
PSYC 315	Communication Processes	
PSYC 318	Health Psychology	
PSYC 351	Behavior Modification: Principles and Applications	
PSYC 355	Industrial Psychology	

PSYC 377	Tests and Measurements
PSYC 386	Introduction to Psychotherapy
PSYC 387	Community Psychology

## Sociology

### (Primary Field 33 units, Secondary Field 16 units)

#### Primary Field (33)

SOC 100	The Study of Society	4
SOC 307	Social Research I	5
SOC 311	Sociological Theory	4
or SOC 360	Social Psychology	
SSCI 100	Introduction to the Social Sciences	2
SSCI 499	Senior Seminar	2
Sixteen units of upper-division sociology electives.		16

#### Secondary Field (16)

SOC 100	The Study of Society	4
SOC 360	Social Psychology	4
Eight units of upper-division sociology electives.		8

## 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)

ANTH 358	Peoples of the Middle East	4
HIST 383	Classical Islamic Civilization	4
HUM 375	The World of Islam	4
PSCI 308	Government and Politics of the Middle East	4

### Electives (20)

Twenty units chosen from:		20
ANTH 303	Prehistory of the Middle East and Europe	
ANTH 334	Anthropology and Film	
ARAB 216	Introduction to Arabic Literary Texts	
ARAB 290	Arabic Literature in Translation	
ARAB 370	Arabic Film and Culture	
ARAB 470A-E	Contemporary Issues in Arab Culture:	



ARAB 471	Media in the Arab World
ARAB 480	Special Topics in Classical Islamic Texts
ARAB 481	Special Topics in Contemporary Arabic Literature
COMM 565	Advanced Topics in Media Studies (when the topic is Islamic/Middle East)
ENG 319	Studies in Literary Diversity (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)
HIST 330	Topics in Oral History (when the topic is Middle Eastern)
HIST 384	Modern Middle East
HIST 480	History of Christianity I
HIST 485	Arab-Israeli Conflict
HIST 486	Modern Iran
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 493	Iran-U.S. Relations
PSCI 540	Seminar in Comparative Politics (when the topic is Islamic/Middle East)
PSCI 605	Topics in Strategy: (when the topic is Islamic/Middle East)
SOC 606	Sociology of Terrorism
An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on an Islamic/Middle Eastern topic.	
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)

SOC 545	Indigenous Peoples (or its equivalent as approved by a certificate coordinator.)	4
Eight units chosen from:		8
ANTH 351	Indians of North America	
ANTH 352	Indians of the Southwest	
ANTH 577B-E	Internship in Archaeology (with approval by a certificate coordinator)	
HIST 371	California Indian History	
HIST 342	American Indian History	
HIST 575	Internship in History (with approval by a certificate coordinator)	
SOC 525	Indian Nations and Native America	
SOC 590	Seminar in Sociology	
Electives. Eight units chosen from:		8
ANTH 305	North American Prehistory	
ANTH 312	Historical Archaeology	
or HIST 312	Historical Archaeology	
ANTH 314	Archaeology of California	
or ART 314	The Art of Indigenous Peoples	
ANTH 315	Archaeology of the Southwest	
ANTH 323	Native North American Art	
or ART 323	Native North American Art	
ANTH 324	Pre-Columbian Art	
or ART 324	Pre-Columbian Art	
ANTH 375	Museum Methods	
or HIST 375	Museum Methods	
ANTH 376	Exhibit Design (when the exhibit is about Native Nations)	
or HIST 376	Exhibit Design	
ENG 314	American Indian Literature	
ENG 319	Studies in Literary Diversity (when the topic is about Native Nations)	
HIST 316	Archival Practices	
HIST 318	Introduction to Cultural Resource Management	
HIST 326	Historic Preservation	
SOC 590	Seminar in Sociology	
Total Units		20

Up to four units of outside coursework may be substituted with the approval of a certificate coordinator.

## Department of Anthropology

### Department of Anthropology

Social and Behavioral Sciences Building, Room 327J  
(909) 537-5502 Department of Anthropology website (<http://anthropology.csusb.edu>)

### Bachelor of Arts

- Anthropology

### Minor

- Anthropology

### Certificate Programs

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

### Master of Arts

Applied Archaeology

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  
M.A. 1980, University of San Carlos  
Ph.D. 1995, Arizona State University

Wesley A. Niewoehner, Associate Professor  
B.A. 1982, Colorado College  
M.A. 1990, Colorado State University  
Ph.D. 2000, University of New Mexico

Peter Robertshaw, Professor, Chair  
B.A. 1973, M.A. 1977, Ph.D. 1980, Cambridge University

Teresa Velasquez, Assistant Professor  
Ph.D., University of Texas at Austin, 2012

### Emeriti

Frances F. Berdan, Professor

James C. Pierson, Professor

### Undergraduate Degree

#### Bachelor of Arts

- Anthropology (p. 688)

#### Graduate Degree

#### Master of Arts

- Applied Archaeology (p. 691)

#### Minor

- Anthropology (p. 692)

### Certificate Programs

- Applied Cultural Anthropology (p. 689)
- Archaeology (p. 689)
- Latin American Studies (p. 690)
- Museum Studies (p. 690)

### 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. Archaeology 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 prehistory 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 347. Cultural Anthrozoology: Humans, Animals, and Nature. 4 Units.**

Cultural contexts of human and animal relationships from different historical, religious, and representational perspectives.

### **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 388. Language and Culture. 4 Units.**

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

**ANTH 390. Selected Topics in Anthropology. 4 Units.****ANTH 391. Selected Topics in Anthropology. 2 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 326 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.

**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. (2-5 units).

**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 611. Cultural Resource Management: Laws, Regulations, and Procedures. 4 Units.**

History of American historic preservation; overview of the laws and implementing regulations and case studies at local, state, and federal levels; introduction to Section 106 process, 36CFR 800, ARPA permitting, NAGPRA, protection of historic properties, undertakings, consultation, agreements, implementation; introduction to standard CRM information and development (such as identification, evaluation, mitigation, and site treatment/protection measures).

### **ANTH 612. Cultural Resource Management in Practice. 4 Units.**

Implementation of laws through regulations and agency policies, ARPA damage assessments, recent changes, developments, court cases; international cultural property laws; working with various publics including negotiation and dispute resolutions, international perspectives and interested party/tribal consultation; ethics; report writing and introduction to MOAs and MOUs; curating archaeological collections/cultural property; archival records management and conservation.

### **ANTH 615. Research Design, Methods, and Problems in Archaeology. 4 Units.**

In-depth investigation of selected problems in prehistoric and historic archaeology including detailed analysis of the appropriateness of the research design and methods that have been used to address these problems. Consideration will also be given to the paradigms and theories that have underpinned the ways in which these problems have been investigated.

### **ANTH 616. History and Theory of Archaeology. 4 Units.**

An in-depth survey of the history of archaeology from its beginnings to the present day with an emphasis on developments in theory and their relationship to the interpretation of the archaeological record.

### **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 677. Graduate Internship in Applied Archaeology. 4 Units.**

Supervised work in public or private organizations providing professional, hands-on experience in applied archaeology. May be repeated for a total of eight units. Graded Credit/No Credit.

### **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.

### **ANTH 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.

### **ANTH 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.



**ANTH 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.

**ANTH 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.

**ANTH 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.

**ANTH 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.

**ANTH 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.

**ANTH 699. Graduate Thesis or Project. 4 Units.**

Prerequisites: advancement to candidacy and consent of program coordinator

Independent graduate research conducted under the guidance of the major advisor, with assistance from the other members of the student's committee, and resulting in a thesis or a completed project, either of which must be successfully defended.

**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:		8
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	Archaeology of California	
ANTH 315	Archaeology of the Southwest	
ANTH 324	Pre-Columbian Art	
or ART 324	Pre-Columbian Art	
<b>Biological Anthropology</b>		
Eight units chosen from:		8
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	
<b>Socio-cultural Anthropology</b>		
Twelve units chosen from:		12
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	
ANTH 347	Cultural Anthrozoology: Humans, Animals, and Nature	
<b>Linguistic Anthropology</b>		
Four units chosen from:		4
ANTH 380	Gender and Language	
ANTH 381	California Indian Linguistic Anthropology	
ANTH 388	Language and Culture	
<b>Laboratory Analysis</b>		
Five units chosen from:		5
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	
<b>Anthropology Culture Areas</b>		
Eight units chosen from:		8
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	

<b>Advanced Theory</b>		
Four units chosen from:		4
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 (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.

### 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
ANTH 317	Community Engaged Research Methods	5
ANTH 333	Sex and Gender in Cross-Cultural Perspective	4
ANTH 344	Applied Anthropology and Social Policy	4
ANTH 578B-D	Internship in Applied Cultural Anthropology (for a minimum of 4 units)	2-5
Twelve units from the following courses:		12
ANTH 330	Cross-Cultural Child-Rearing Practices	
ANTH 332	Cross-Cultural Perspectives on Aging	
ANTH 340	Anthropology of Health, Illness and Healing	
ANTH 341	Globalization and Culture	
ANTH 342	Environmental Anthropology	
ANTH 346	Indigenous Politics	
ANTH 420	Human Rights, Violence & Cult	
Total Units		31-34

## 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	
ANTH 319	Experimental Archaeology and Ethnoarchaeology	5
or ANTH 321	Archaeological Laboratory Analysis	
ANTH 400	Archaeological Theory and Method	4
Eight units chosen from:		8
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	Archaeology of California	
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:		4
GEOG 306	Remote Sensing of the Environment	
GEOG 308	Advanced Geographic Information Systems	
GEOG 480	Geomorphology	
GEOG 301	Introduction to Geologic Mapping	
GEOG 330	Sedimentary Petrology	
GEOG 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 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
ART 328	Mexican Art
FLAN 320	Masterpieces of Literature
GEOG 390	Selected Topics in Geography
HIST 390	History of Modern Mexico
HIST 469	Colonial Latin America
HIST 470	Modern Latin America
HUM 460	Cultural Studies
MUS 351	Latin American Music
SSCI 304	Contemporary Latin America
SPAN 440	Mexican Literature
Total Units	32

## 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

ANTH 316	Archival Practices	4
or HIST 316	Archival Practices	
ANTH 318	Introduction to Cultural Resource Management	4
or HIST 318	Introduction to Cultural Resource Management	
ANTH 375	Museum Methods	4
or HIST 375	Museum Methods	
ANTH 376	Exhibit Design	4
or HIST 376	Exhibit Design	
ANTH 576B-E	Internship in Museum Studies (2-5 for a total of 8)	8
ART 345	Gallery Management	2
A minimum of eight units of electives, chosen from one of the three groups of courses (A, B or C):		8
Total Units		34

## Groups of courses

### Group A

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
or HIST 312	Historical Archaeology	
ANTH 314	Archaeology of California	4
ANTH 315	Archaeology of the Southwest	4
ANTH 320	Archaeological Survey and Excavation	5
ANTH 321	Archaeological Laboratory Analysis	5
ANTH 323	Native North American Art	4
or ART 323	Native North American Art	
ANTH 324	Pre-Columbian Art	4
or ART 324	Pre-Columbian Art	
ANTH 400	Archaeological Theory and Method	4

### Group B

ANTH 351	Indians of North America	4
ANTH 352	Indians of the Southwest	4
ANTH 354	Cultures of Mexico and Central America	4
ANTH 357	African Societies	4
ANTH 358	Peoples of the Middle East	4
ANTH 362	Asian Cultures and Societies	4
ANTH 365	Asian American Cultures	4
ART 221	Art History: Prehistoric Times through the Middle Ages	4
ART 222	Art History: Africa, Asia, the Americas and Oceania	4
ART 223	Art History: Renaissance to the Present	4
ART 306	Greek and Roman Art	4
ART 311	Art of the United States to the End of the Nineteenth Century	4
ART 314	The Art of Indigenous Peoples	4
ART 316	Arts of the Ancient Near East and Egypt	4
ART 321	Renaissance Art	4

ANTH 323	Native North American Art	4
or ART 323	Native North American Art	
ANTH 324	Pre-Columbian Art	4
or ART 324	Pre-Columbian Art	
ART 327	Baroque and Rococo Art	4
ART 328	Mexican Art	4
ART 329	Chicano Art	4

### Group C

ART 410	Studies in Art History	4
ART 423	Nineteenth Century European Art	4
Any upper-division history course except the following:		
HIST 318	Introduction to Cultural Resource Management	
HIST 375	Museum Methods	
HIST 376	Exhibit Design	
HIST 395	Topics in History	
HIST 396	Topics in History	
HIST 399A	Community Service Project	
HIST 399B	Community Service Project	
HIST 575	Internship in History	
HIST 595A-D	Independent Study	

## Master of Arts in Applied Archaeology

### Requirements (45 units)

The Master of Arts in Applied Archaeology is a professionally oriented program designed to prepare students for middle and upper-level careers in the archaeological sector of the cultural resource management (CRM) industry. The core of the program comprises courses in archaeology with an emphasis on combining practical experience in field and laboratory studies with an internship and research project undertaken in collaboration with a government agency or private firm that conducts archaeological investigations in the context of CRM. Students will also obtain an in-depth understanding of archaeological theory, California archaeology, and the laws, regulations, and procedures relevant to archaeology and CRM in our region. Elective courses will enable students to pursue an interest further in history, archaeology, or historic preservation. 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 in anthropology or a closely related field from an accredited college or university;
2. 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;
3. Completion of the graduate entrance writing requirement;
4. EITHER:
  - A. Completion of the following prerequisite course or its equivalent, completed with a grade of B or better: ANTH 320
  - OR

B. Documented Field experience in archaeology under professional supervision that is deemed by the Admissions Committee as being equivalent to successful completion of ANTH 320;

5. A brief statement (one to two double-spaced typewritten pages) describing the applicant's preparation for graduate study and professional goals;
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 the program. At least one of the letters should be from a former professor who is familiar with the student's scholarly abilities.

## Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the advisor, at least 12 quarter units of graduate course work at this university and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed a graduate program approved by the student's advisor and the coordinator of the program.

## Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, with at least 32 quarter units completed in residence at California State University, San Bernardino. Thirty-two quarter units must be in 500- and 600-level courses;
2. A minimum grade point average of at least 3.0 ("B") in all courses;
3. To provide a breadth of content in this graduate program, 300- or 400-level courses may be used to satisfy some program requirements with the expectation that coursework is increased to satisfy the rigors of graduate work;
4. Successful completion of a thesis or project (ANTH 699).

**Thesis/Project:** Under normal circumstances, a student must complete a thesis that is approved by his or her thesis committee. The thesis must reflect original work and show a level of competence appropriate for a master's degree. The thesis committee shall consist of two or three faculty members, including the student's advisor, mutually agreed upon by the student and faculty. By mutual agreement between the student and advisor, the third committee member may be recruited from archaeologists in the southern California CRM community holding PhDs from accredited institutions. The student should enroll in ANTH 699 in the quarter when completion of the thesis is anticipated. On occasion a student may be allowed to substitute a completed project for the thesis. Such a project must have a completed product and would reflect at least the same amount of work as a thesis and be completed to the same standard. The content and appropriateness of the project will be determined by a project committee constituted in the same way as a thesis committee.

## Degree Requirements (45 units)

### Required courses (37)

ANTH 314	Archaeology of California	4
ANTH 321	Archaeological Laboratory Analysis	5
ANTH 611	Cultural Resource Management: Laws, Regulations, and Procedures	4

ANTH 612	Cultural Resource Management in Practice	4
ANTH 615	Research Design, Methods, and Problems in Archaeology	4
ANTH 616	History and Theory of Archaeology	4
ANTH 677	Graduate Internship in Applied Archaeology (4 units repeated for credit for a total of 8 units)	8
ANTH 699	Graduate Thesis or Project	4

### Electives (8-9)

Four or five units chosen from the following courses: 4-5

ANTH 312	Historical Archaeology
ANTH 315	Archaeology of the Southwest
ANTH 318	Introduction to Cultural Resource Management
ANTH 319	Experimental Archaeology and Ethnoarchaeology
ANTH 375	Museum Methods
GEOG 308	Advanced Geographic Information Systems
GEOG 402	Geographic Information Systems Applications
GEOG 480	Geomorphology
HIST 326	Historic Preservation

Four units chosen from the following courses: 4

ANTH 590D	Selected Topics in Anthropology (consent of advisor required because of variable topics)
GEOL 620	Digital Mapping and GIS for Scientists
HIST 560	History of the American West
HIST 616	Advanced Archival Practices
HIST 618	Advanced Cultural Resource Management
HIST 623	Advanced Public History
HIST 624	Advanced Oral History

Total Units 45-46

## Minor in Anthropology

### Requirements (28 units)

### Requirements for a minor in Anthropology

ANTH 100	Introduction to Anthropology: Human Evolution	4
ANTH 102	Introduction to Anthropology: Culture and Society	4
Twenty upper-division units chosen in consultation with an advisor.		20
Total Units		28

# Department of Criminal Justice

## Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209

(909) 537-5506 Department of Criminal Justice (<http://criminaljustice.csusb.edu>)

### Bachelor of Arts

- Criminal Justice
- Criminal Justice - Crime Analysis Option

### Minor

- Criminal Justice

### Master of Arts

- Criminal Justice

### Certificate Program

- Criminal Justice

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  
M.A. 2004, University of South Florida  
Ph.D. 2010, University of South Florida

Brian 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  
B.A. 2001, M.A. 2004, Ph.D. 2007, University of Florida

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 Carolina

### Emeriti

Frances Coles, Professor

David Shichor, Professor

Franklin P. Williams III, Professor

## Undergraduate Degrees

### Bachelor of Arts

- Criminal Justice (p. 700) with additional option in:
  - Crime Analysis (p. 701)

### Graduate Degrees

- Master of Arts in Criminal Justice (p. 702)

### Minor

- Criminal Justice (p. 704)

### Certificate Programs

- Criminal Justice (p. 702)

## 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.**

Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile.

**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

Supervised work and study in private or public organizations. Open only to criminal justice seniors. May be repeated for credit for a total of eight units; only four may be used in the major. If student completes more than one internship, the other internship must be completed in another agency. Graded credit/no credit. (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 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 640. Justice Policy and Administration. 4 Units.**

Legal, philosophical, political and management influences that shape criminal justice policy. Focus on organization and management principles and leadership and human resource development as they apply to the justice system.

### **CJUS 641. Planning and Evaluation in Criminal Justice. 4 Units.**

Prerequisites: CJUS 604 and CJUS 606

Focus on program planning and evaluation, as conducted by executive, managers, and planning oversight agencies. Course examines case studies and traditional evaluation designs including evaluating/assessing policies and programs, sampling techniques, and overviews of data collection techniques and statistical analysis.

### **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 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.

**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 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 595. 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/or field research. May be repeated for credit for a total of eight units; only four may be used in the major.

### **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/or 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/or 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 PLST 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/or 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 PLST 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/or 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
<b>Upper-division requirements (24)</b>	
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:	36
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	

CJUS 596	Peer Advising in Criminal Justice	
CJUS 597	Senior Honors Project	
Total Units		68

**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

### 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	
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:		4
CJUS 575	Internship in Criminal Justice	
GEOG 575D	Internship in Geography	

IST 575	Internship	
CJUS 595D	Independent Study	
GEOG 595D	Independent Study	
IST 595D	Independent Study	

### Electives (12)

Twelve elective units from either one (1) or two (2) of the following categories: 12

#### Criminal Networks

MATH 272	Discrete Mathematics	
CJUS 571	Advanced Social Network Analysis	
CJUS 453	Gangs	
GEOG 305	Geographic Statistics and Research Methods	
CJUS 554	Terrorism	
CJUS 555	Homeland Security	
CJUS 590A-D	Topics in Criminal Justice	

#### Urban Planning/Law Enforcement

GEOG 307	Transportation Issues and Development	
GEOG 390	Selected Topics in Geography	
GEOG 415	Urban Planning and Land Development	
CJUS 340	Police and Police Systems	
CJUS 455	Forensic Profiling	
CJUS 504	Criminal Procedure	

#### National Security Issues

PSCI 484	National Security Policy	
HIST 556	Foreign Relations of the United States	
PSCI 540	Seminar in Comparative Politics	
PSCI 590	Seminar in International Relations	
GEOG 322	United States and Mexico Border Issues	

#### Forensic Analysis or Corporate Crime

ACCT 211	Introductory Accounting I	
ACCT 212	Introductory Accounting II	
GEOG 420	Geography of Economic Activity	
CJUS 452	Occupational and Corporate Crime	
CJUS 556	Transnational Organized Crime	

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

**Note:** Students transferring from community colleges may substitute a maximum of 12 lower-division units selected from administration of justice, geography, or political science courses toward the electives category.

### 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)

GEOG 100	Introduction to Human Geography	4
GEOG 103	Physical Geography	5
GEOG 201	Map Interpretation	4
GEOG 306	Remote Sensing of the Environment	4
GEOG 308	Advanced Geographic Information Systems	5

GEOG 315	Spatial Analysis	4
GEOG 402	Geographic Information Systems Applications	5
GEOG 406	Digital Image Processing	4
Select 4 units minimum from the following:		4
GEOG 312	Geography of the Developing World	
GEOG 341	Military Geography	
GEOG 304	Field Methods in Geography	
GEOG 305	Geographic Statistics and Research Methods	
GEOG 575A-D	Internship in Geography (if not used previously to satisfy major requirements)	
Total Units		39

**Proficiency in Cyber Security (37)**

GEOG 103	Physical Geography	5
GEOG 306	Remote Sensing of the Environment	4
IST 275	Information Networking and Security	4
IST 215	Cyber Security	4
IST 372	Information Technology	4
IST 415	Security Systems Management	4
IST 511	Cyber Defense	4
IST 525	Computer Forensics	4
Select 4 units minimum from the following:		4
IST 276	Systems Analysis and Design	
IST 282	Business Systems I	
IST 474	Advanced Data Base Management and Information Assurance	
IST 475	Advanced Information Networking and Security	
IST 575	Internship (If not used previously to satisfy major requirements)	
Total Units		37

**Note:** Technical proficiency options have additional requirements if you desire to obtain profession certifications. Consult the relevant department.

## 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

CJUS 101	Introduction to the Criminal Justice System	4
CJUS 102	Criminal Law	4
CJUS 320	Theories of Crime and Delinquency	4
CJUS 330	Correctional Theory and Institutions	4
CJUS 340	Police and Police Systems	4
CJUS 370	Law and the Courts	4
Eight units chosen from upper-division electives in criminal justice.		8
Total Units		32

## 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;

- 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:

- Achieved classified standing;
- Traditional Thesis M.A. Option:  
Completed all required course work except thesis, or  
Professional M.A. Option:  
Completed all required course work except Comprehensive Examination;
- 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;
- For the traditional thesis option: made arrangements for three faculty members, in consultation with the criminal justice graduate coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
- Submitted a formal program of graduate studies to the criminal justice graduate coordinator as approved by the graduate committee. This should be done no later than the end of the second quarter of graduate work;
- Petitioned the graduate committee, during the quarter in which all course work is to be completed, for formal advancement.

The graduate committee will then consider the student's scholastic performance and other circumstances and either grant advancement to candidacy, specify necessary preparatory studies, or recommend other courses of action.

## Requirements for Graduation

- A minimum of 45 units of acceptable graduate level work, with at least 32 quarter units completed in residence at this university;
- 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);
- 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)

CJUS 604	Advanced Techniques of Basic and Applied Research in Criminal Justice	4
CJUS 605	Proseminar in Criminal Justice	4
CJUS 606	Statistical Analysis in Criminal Justice	4
CJUS 607	Applying Criminological Theory to Criminal Justice	4
CJUS 631	Seminar in Corrections	4
or CJUS 632	Seminar in Policing	
CJUS 686	Graduate Review in Criminal Justice	1
Sixteen units of electives (with no more than eight units at the 500-level) to be chosen in consultation with an advisor:		16
CJUS 504	Criminal Procedure	
CJUS 550	Crime and Intelligence Analysis	
CJUS 554	Terrorism	
CJUS 570	Crime in Public Spaces	
CJUS 580	Juvenile Justice System	
CJUS 585	Criminality Across the Life Course	
CJUS 590A-D	Topics in Criminal Justice	
CJUS 608	Crime, Criminals and Victims	
CJUS 629	Minorities in the Criminal Justice System	
CJUS 630	Legal Issues in Criminal Justice	
CJUS 631	Seminar in Corrections (if not taken previously)	
CJUS 632	Seminar in Policing (if not taken previously)	
CJUS 650A-D	Directed Area Studies in Criminal Justice	
Other courses may be allowed with consent of department.		
CJUS 699A	Thesis I	4
CJUS 699B	Thesis II	4
Total Units		45

### Plan II (Professional Option)

CJUS 604	Advanced Techniques of Basic and Applied Research in Criminal Justice	4
CJUS 605	Proseminar in Criminal Justice	4
CJUS 606	Statistical Analysis in Criminal Justice	4
CJUS 607	Applying Criminological Theory to Criminal Justice	4
CJUS 631	Seminar in Corrections	4
or CJUS 632	Seminar in Policing	
CJUS 686	Graduate Review in Criminal Justice	1
Twenty-four units of electives (with no more than 12 units at the 500-level) to be chosen in consultation with an advisor:		24
CJUS 504	Criminal Procedure	
CJUS 550	Crime and Intelligence Analysis	
CJUS 554	Terrorism	
CJUS 570	Crime in Public Spaces	
CJUS 580	Juvenile Justice System	
CJUS 590D	Topics in Criminal Justice (may be repeated as topics change)	
CJUS 608	Crime, Criminals and Victims	
CJUS 629	Minorities in the Criminal Justice System	
CJUS 630	Legal Issues in Criminal Justice	
CJUS 631	Seminar in Corrections (if not taken previously)	



CJUS 632	Seminar in Policing (if not taken previously)
----------	---

CJUS 650A-D	Directed Area Studies in Criminal Justice
-------------	---

Other courses may be allowed with consent of department.	
--	--

CJUS 999	Comprehensive Examination (with a grade of credit "CR")
----------	---

---

Total Units	45
-------------	----

## Minor in Criminal Justice

### Requirements (28 units)

### Requirements for a minor in Criminal Justice

CJUS 101	Introduction to the Criminal Justice System	4
CJUS 102	Criminal Law	4
CJUS 320	Theories of Crime and Delinquency	4
CJUS 330	Correctional Theory and Institutions	4
CJUS 340	Police and Police Systems	4
CJUS 370	Law and the Courts	4
Four units chosen from upper-division electives in Criminal Justice.		4
<hr/>		
Total Units		28

## Department of Economics

### Department of Economics

Social and Behavioral Sciences Building, Room 327D

(909) 537-5511 Department of Economics (<http://economics.csusb.edu>)

### Bachelor of Arts

- Economics
- Economics - Applied Economics
- Economics - Mathematical Economics
- Economics - Political Economy

### Minors

- 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 economies develop and how various groups and classes of people interact with it and are affected by it.

One of the tools economics provides is the ability to analyze the possible costs and benefits of competing alternatives. It provides a framework through which difficult choices can be analyzed—whether an individual should go to college now or later, or whether a firm should invest its money in more machines or offer a bonus to its labor force, or whether a government should spend money on schools or military hardware.

Training in economics provides excellent preparation for careers in industry, government and many professions including law, education, public administration and management.

### 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. 708)
- Economics - Applied Economics (p. 709)
- Economics - Mathematical Economics (p. 709)
- Economics - Political Economy (p. 710)

#### Minors

- Economics (p. 710)
- Philosophy, Policy, and Economics (p. 710)
- Political Economy (p. 711)

### 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 352. Political Economy of Poverty and Discrimination. 4 Units.**

(GE= G2)

An exploration of the causes of poverty and discrimination in the United States. Historical examination of the policies addressing poverty and discrimination. Analysis of alternative policies.

**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 Economics. 4 Units.**

Prerequisites: ECON 200 or consent of instructor

Investigation of key government programs and of the role of the government in the economy. Among the topics possibly considered are: the minimum wage, the tax system, the federal deficit and debt, social welfare programs (e.g. Social Security, Temporary Assistance for Needy Families, Earned Income Tax Credit), government regulation of business, government healthcare insurance programs, and environmental policies (including those associated with global warming).

**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 597. Senior Honors Project. 4 Units.**

Original research in an area of economics, culminating in a major report receiving approval of the economics faculty. Enrollment limited to students whose formal application for admission to the course has been approved by the department chair.

**ECON 600. Proseminar in Economics. 4 Units.**

Survey of the concepts and ideas that economists study, with emphasis on globalization.

**ECON 630. International Economic Issues. 4 Units.**

Contemporary international economic issues of relevance in planning and implementing policy.

**ECON 690. Advanced Topics in Economics. 4 Units.**

Prerequisites: consent of instructor

Advanced study of selected areas of economics. May be repeated for credit as topics change.

**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**

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
Four units chosen from:		4
ECON 250	Statistics for Economists	
MATH 262	Applied Statistics	
ADMN 210	Applied Business Statistics	
Four units chosen from:		4
MATH 110	College Algebra	
MATH 120	Pre-Calculus Mathematics	
MATH 192	Methods of Calculus	
MATH 211	Basic Concepts of Calculus	
<b>Upper-division requirements (52)</b>		
ECON 300	Intermediate Macroeconomics	4
ECON 302	Intermediate Microeconomics	4
ECON 335	Tools of Economic Analysis	4
ECON 500	History of Economic Thought	4
A minimum of eight units chosen from:		8
ECON 322	Managerial Economics	
ECON 372	Business Cycles	
ECON 480	Quantitative Methods in Economics	
ECON 490	Introduction to Econometrics	
A minimum of eight units chosen from:		8
ECON 360	Economics of the Environment	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 460	Labor Economics	
ECON 475	Public Economics	
ECON 545	Economics of Water Resources	
ECON 571	Economics of Sports	
ECON 573	Economics of Crime	
A minimum of eight units chosen from:		8
ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 421	Economic History of the United States	
ECON 443	Origins of Political Economy	
ECON 445	Political Economy	
ECON 450	Global Economy	
ECON 520	Social Economics	
ECON 530	The Good Economy	
ECON 540	Political Economy of Latin America	
Twelve units of additional economics courses. With approval of a departmental advisor, eight units in related fields may be counted toward the course requirement in economics.		12
<b>Total Units</b>		<b>68</b>

**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 - Applied Economics

### Requirements (68 units)

#### Lower-division requirements (24)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
ACCT 211	Introductory Accounting I	4
ACCT 212	Introductory Accounting II	4
ADMN 210	Applied Business Statistics	4

Four units chosen from: 4

MATH 110	College Algebra	
MATH 120	Pre-Calculus Mathematics	
MATH 192	Methods of Calculus	
MATH 211	Basic Concepts of Calculus	

#### Upper-division requirements (44)

ECON 300	Intermediate Macroeconomics	4
ECON 302	Intermediate Microeconomics	4
or ECON 322	Managerial Economics	
ECON 335	Tools of Economic Analysis	4
ECON 500	History of Economic Thought	4
FIN 313	Business Finance	4
ECON 480	Quantitative Methods in Economics	4
or ECON 490	Introduction to Econometrics	

Eight units chosen from: 8

ECON 360	Economics of the Environment	
ECON 372	Business Cycles	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 460	Labor Economics	
ECON 475	Public Economics	
ECON 545	Economics of Water Resources	
ECON 571	Economics of Sports	
ECON 573	Economics of Crime	

Four units chosen from: 4

ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 421	Economic History of the United States	
ECON 443	Origins of Political Economy	
ECON 445	Political Economy	
ECON 450	Global Economy	
ECON 520	Social Economics	
ECON 530	The Good Economy	
ECON 540	Political Economy of Latin America	

Eight units of additional upper-division economics courses 8

Total Units 68

## Bachelor of Arts in Economics - Mathematical Economics

### Requirements (68 units)

#### Lower-division requirements (24)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
Four units chosen from:		4

ECON 250	Statistics for Economists	
MATH 262	Applied Statistics	
ADMN 210	Applied Business Statistics	

MATH 211 Basic Concepts of Calculus 4

MATH 212 Calculus II 4

MATH 251 Multivariable Calculus I 4

#### Upper-division requirements (44)

ECON 300	Intermediate Macroeconomics	4
ECON 302	Intermediate Microeconomics	4
ECON 335	Tools of Economic Analysis	4
ECON 480	Quantitative Methods in Economics	4
ECON 490	Introduction to Econometrics	4
ECON 500	History of Economic Thought	4
MATH 331	Linear Algebra	4

Eight units chosen from: 8

ECON 322	Managerial Economics	
ECON 360	Economics of the Environment	
ECON 372	Business Cycles	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 460	Labor Economics	
ECON 475	Public Economics	
ECON 545	Economics of Water Resources	
ECON 571	Economics of Sports	
ECON 573	Economics of Crime	

Eight units chosen from: 8

ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 421	Economic History of the United States	
ECON 443	Origins of Political Economy	
ECON 445	Political Economy	
ECON 450	Global Economy	
ECON 520	Social Economics	
ECON 530	The Good Economy	
ECON 540	Political Economy of Latin America	

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)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
Four units chosen from:		4
ECON 250	Statistics for Economists	
ADMN 210	Applied Business Statistics	
MATH 262	Applied Statistics	
Four units chosen from:		4
MATH 110	College Algebra	
MATH 120	Pre-Calculus Mathematics	
MATH 192	Methods of Calculus	
MATH 211	Basic Concepts of Calculus	

### Upper-division requirements (52)

ECON 300	Intermediate Macroeconomics	4
ECON 302	Intermediate Microeconomics	4
ECON 445	Political Economy	4
ECON 500	History of Economic Thought	4
A minimum of sixteen units chosen from:		16
ECON 333	Political Economy of Women: Money, Sex, Race, and Power	
ECON 352	Political Economy of Poverty and Discrimination	
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	
ECON 421	Economic History of the United States	
ECON 443	Origins of Political Economy	
ECON 450	Global Economy	
ECON 460	Labor Economics	
ECON 520	Social Economics	
ECON 530	The Good Economy	
ECON 540	Political Economy of Latin America	

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.

ECON 322	Managerial Economics	
ECON 335	Tools of Economic Analysis	
ECON 360	Economics of the Environment	
ECON 372	Business Cycles	
ECON 410	Money and Banking	
ECON 430	International Economics	
ECON 435	Multinational Corporations	
ECON 460	Labor Economics	
ECON 475	Public Economics	
ECON 480	Quantitative Methods in Economics	
ECON 545	Economics of Water Resources	

ECON 571	Economics of Sports	
ECON 573	Economics of Crime	
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)

ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
Upper-division requirements (20)		
ECON 500	History of Economic Thought	4
Sixteen units of additional economics courses.		16
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:		8-12
PHIL 314	History of Modern Philosophy: Ethics and Politics	
PHIL 350	Ethics	
PHIL 353	Topics in Applied Ethics	
PHIL 359	Philosophy and Economics	
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 460	Advanced Issues in Value Theory	

#### Economics (8-12)

Select 8-12 units chosen from:		8-12
ECON 443	Origins of Political Economy	
ECON 445	Political Economy	
ECON 500	History of Economic Thought	
ECON 520	Social Economics	

ECON 530 The Good Economy

**Political Science (8-12)**

Select 8-12 units chosen from: 8-12

PSCI 310 Classical Political Thought

PSCI 311 Foundations of Modern Political Thought

PSCI 313 Modern Political Thought

PSCI 315 Post Modern Political Thought

---

Total Units 24-36

## Minor in Political Economy

Requirements (28 units)

### Requirements for a minor in Political Economy

**Lower-division requirements (4)**

ECON 202 Principles of Macroeconomics 4

**Upper-division requirements (24)**

ECON 445 Political Economy 4

ECON 500 History of Economic Thought 4

A minimum of twelve units chosen from: 12

ECON 333 Political Economy of Women: Money, Sex, Race, and Power

ECON 352 Political Economy of Poverty and Discrimination

ECON 357 Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People

ECON 421 Economic History of the United States

ECON 450 Global Economy

ECON 520 Social Economics

ECON 530 The Good Economy

ECON 540 Political Economy of Latin America

Four units of additional economics courses. 4

---

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

B.A. 1993, 1998, M.A. 1995, 1999, University of Dehli

M.A. 2003, University of Akron

Ph.D. 2007, Kent State University

Michal Kohout, Associate Professor

B.A. 1993, University of Western Ontario

M.A. 1996, Southwest Texas State University

Ph.D. 2004, Clark University

Norman Meek, Professor, Chair

B.A. 1982, University of Kansas

M.A. 1984, Michigan State University

Ph.D. 1990, University of California, Los Angeles

Bo Xu, Associate Professor

B.S. 1998, Beijing Normal University

M.S. 2001, East China Normal University

M.S. 2007, Ph.D. 2008, University of Georgia

Jenny Zorn, Professor, Associate Provost

B.A. 1980, Flagler College

M.A. 1982, Ph.D. 1990, Ohio State University

## Emeriti

Jeffrey D. Hackel, Professor

Theodore R. McDowell, Professor

James Mulvihill, Professor

Richard Rowland, Professor

## Undergraduate Degrees

### Bachelor of Arts

- Environmental Studies (p. 717)
  - Track A
  - Track B
- Geography with options in:
  - Geography (p. 719)
  - Global Studies (p. 719)

### Minors

- Environmental Studies (p. 720)
- Geography (p. 721)
- Geography - Global Studies (p. 721)

### Certificate Programs

- Geographic Information Systems (p. 720)
- Urban Planning (p. 720)

## 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 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)**

BIOL 100	Topics in Biology	5
CHEM 205	Fundamentals of Chemistry I: General Chemistry	5
GEOG 201	Map Interpretation	4
A minimum of fourteen units chosen from:		14
ANTH 100	Introduction to Anthropology: Human Evolution	
CHEM 206	Fundamentals of Chemistry II: Organic Chemistry	
GEOG 103	Physical Geography	
GEOL 101	Introductory Geology	

HSCI 120	Health and Society: An Ecological Approach	
PHYS 100	Physics in the Modern World	
or PHYS 121	Basic Concepts of Physics I	
<b>Upper-division requirements (31)</b>		
BIOL 349	Biology of Ecosystems	5
or GEOG 370	Landscape Analysis	
ECON 360	Economics of the Environment	4
or HSCI 478	Environmental Health Management	
Four units chosen from:		4
GEOG 304	Field Methods in Geography	
GEOG 306	Remote Sensing of the Environment	
GEOG 406	Digital Image Processing	
GEOG 350	Conservation and Natural Resources	4
GEOG 360	Weather and Climate	4
or GEOG 365	Climate Change	
GEOG 480	Geomorphology	4
or GEOL 312	Geology of California	
GEOG 305	Geographic Statistics and Research Methods	4
or MATH 165	Introductory Statistics and Hypothesis Testing	
Note: MATH 165 can only be taken with approval of Environmental Studies coordinator		
GEOG 500	Senior Seminar	2
<b>Electives (20)</b>		
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.)		20
Total Units		79

**Group 1**

ECON 360	Economics of the Environment	4
GEOG 370	Landscape Analysis	4
GEOG 415	Urban Planning and Land Development	4
GEOG 470	Hydrology and Water Resources	4
GEOG 480	Geomorphology	4
GEOL 312	Geology of California	4
HSCI 322	Air Pollution	2
HSCI 352	Principles of Environmental Health	4
HSCI 401	Advanced Environmental Health	5
PSCI 342	The Politics of Environment	4

**Group 2**

GEOG 202	Introduction to Geographic Information Systems and Cartography	5
GEOG 304	Field Methods in Geography	4
GEOG 308	Advanced Geographic Information Systems	5
GEOG 402	Geographic Information Systems Applications	5
GEOG 406	Digital Image Processing	4
GEOL 301	Introduction to Geologic Mapping	4
HSCI 324	Radiological Health and Safety	2
HSCI 478	Environmental Health Management	4

Students are encouraged to use approved independent study courses and approved internships for Group 1 and 2 electives.

**B.A. in Environmental Studies - Track B****Requirements (79 units)**

Total units required for graduation: 180

**Requirements for the B.A. in Environmental Studies - Track B****Lower-division requirements (32)**

BIOL 200	Biology of the Cell	5
BIOL 201	Biology of Organisms	5
BIOL 202	Biology of Populations	5
CHEM 215	General Chemistry I: Atomic Structure and Chemical Bonding	6
CHEM 216	General Chemistry II: Principles of Chemical Reactions	6
Five units chosen from:		5
PHYS 100	Physics in the Modern World	
PHYS 121	Basic Concepts of Physics I	

**Upper-division requirements (31)**

CHEM 345	Modern Quantitative Analysis	5
Four units chosen from:		4
ECON 360	Economics of the Environment	
HSCI 478	Environmental Health Management	
Four units chosen from:		4
GEOG 304	Field Methods in Geography	
GEOG 306	Remote Sensing of the Environment	
GEOG 406	Digital Image Processing	
GEOG 350	Conservation and Natural Resources	4
Four units chosen from:		4
GEOG 360	Weather and Climate	
GEOG 365	Climate Change	
Four units chosen from:		4
GEOG 480	Geomorphology	
GEOL 312	Geology of California	
GEOG 500	Senior Seminar	2
Four units chosen from:		4
GEOG 305	Geographic Statistics and Research Methods	
MATH 165	Introductory Statistics and Hypothesis Testing	
Note: MATH 165 can only be taken with approval of Environmental Studies coordinator		

**Electives (16)**

A minimum of 16 units chosen from one of the following Groups 1 or 2 below.

Total Units 79

**Group 1 (16)**

GEOG 370	Landscape Analysis	4
Five units chosen from:		5
BIOL 450	Ecology	
BIOL 455	Marine Biology and Ecology	
A minimum of seven units chosen from:		7

BIOL 319	Local Flora	
CHEM 221A	Organic Chemistry I Lecture	
CHEM 221B	Organic Chemistry I Lab	
CHEM 222A	Organic Chemistry II Lecture	
CHEM 222B	Organic Chemistry II Lab	
GEOG 103	Physical Geography	
or GEOL 101	Introductory Geology	
HSCI 352	Principles of Environmental Health	
HSCI 401	Advanced Environmental Health	
Total Units		16

**Group 2 (16)**

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
A minimum of eight units chosen from:		8
BIOL 319	Local Flora	
GEOG 370	Landscape Analysis	
BIOL 450	Ecology	
or BIOL 455	Marine Biology and Ecology	
GEOG 103	Physical Geography	
or GEOL 101	Introductory Geology	
GEOL 322	Introduction to Geochemistry	
HSCI 352	Principles of Environmental Health	
HSCI 401	Advanced Environmental Health	
Total Units		16

Students are encouraged to use approved independent study courses and approved internships for Group 1 and 2 electives.

## 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)**

GEOG 100	Introduction to Human Geography	4
GEOG 103	Physical Geography	5
GEOG 201	Map Interpretation	4
GEOG 202	Introduction to Geographic Information Systems and Cartography	5

**Upper-division requirements (50)**

GEOG 305	Geographic Statistics and Research Methods	4
Twelve units chosen from:		12
GEOG 307	Transportation Issues and Development	
GEOG 320	Geography of Social Issues	
GEOG 322	United States and Mexico Border Issues	
GEOG 350	Conservation and Natural Resources	
GEOG 420	Geography of Economic Activity	
GEOG 415	Urban Planning and Land Development	

or GEOG 440	Understanding the City	
Twelve units chosen from:		12
GEOG 304	Field Methods in Geography	
GEOG 360	Weather and Climate	
or GEOG 365	Climate Change	
GEOG 370	Landscape Analysis	
GEOG 470	Hydrology and Water Resources	
GEOG 480	Geomorphology	
Eight units chosen from:		8
GEOG 312	Geography of the Developing World	
GEOG 313	Geography of the Developed World	
or GEOG 323	North America	
Eight units chosen from:		8
GEOG 306	Remote Sensing of the Environment	
GEOG 308	Advanced Geographic Information Systems	
GEOG 315	Spatial Analysis	
GEOG 402	Geographic Information Systems Applications	
GEOG 406	Digital Image Processing	
GEOG 500	Senior Seminar	2
Four units of upper-division course work in geography except GEOG 300 and GEOG 311 which cannot count for the Geography major.		4
Total Units		68

## Bachelor of Arts in Geography - Global Studies Option

**Requirements (65 units)**

Total units required for graduation: 180

### Requirements for the B.A. in Geography - Global Studies Option

**Lower-division requirements (17)**

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:		4
ANTH 341	Globalization and Culture	
ANTH 472	Colonial and Postcolonial Anthropology	
Four units chosen from:		4
ECON 430	International Economics	
ECON 450	Global Economy	
GEOG 420	Geography of Economic Activity	
HSCI 344	International Perspectives on Nutrition	4
or HSCI 359	Global Health	



PSCI 300	Western Political Systems	4
or PSCI 306	Developing Political Systems	
PSCI 400	International Politics	4
or GEOG 320	Geography of Social Issues	
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.		8
<b>Total Units</b>		<b>65</b>

## 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

GEOG 201	Map Interpretation	4
GEOG 202	Introduction to Geographic Information Systems and Cartography	5
GEOG 308	Advanced Geographic Information Systems	5
GEOG 315	Spatial Analysis	4
GEOG 402	Geographic Information Systems Applications	5
A minimum of eight units chosen from:		8-9
GEOG 306	Remote Sensing of the Environment	
GEOG 406	Digital Image Processing	
GEOG 575D-E	Internship in Geography	
<b>Total Units</b>		<b>31-32</b>

## 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

GEOG 202	Introduction to Geographic Information Systems and Cartography	5
GEOG 306	Remote Sensing of the Environment	4
GEOG 307	Transportation Issues and Development	4
GEOG 415	Urban Planning and Land Development	4
GEOG 440	Understanding the City	4
Four units chosen from:		4
ANTH 345	Urban Anthropology	
ECON 360	Economics of the Environment	
GEOG 350	Conservation and Natural Resources	
GEOG 575D	Internship in Geography	
HSCI 478	Environmental Health Management	
SOC 430	Urban Sociology	
<b>Total Units</b>		<b>25</b>

## Minor in Environmental Studies

### Requirements (34 units)

#### Requirements for a minor in Environmental Studies

##### Lower-division requirements (14)

Five units chosen from:		5
BIOL 100	Topics in Biology	
BIOL 202	Biology of Populations	
HSCI 120	Health and Society: An Ecological Approach	

Five units chosen from:		5
GEOG 103	Physical Geography	
GEOL 101	Introductory Geology	
GEOG 201	Map Interpretation	4

##### Upper-division requirements (8)

GEOG 350	Conservation and Natural Resources	4
Four units chosen from:		4
ECON 360	Economics of the Environment	
HSCI 478	Environmental Health Management	

##### 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	
BIOL 450	Ecology	
ECON 360	Economics of the Environment	

GEOG 202	Introduction to Geographic Information Systems and Cartography
GEOG 305	Geographic Statistics and Research Methods
GEOG 360	Weather and Climate
GEOG 365	Climate Change
GEOG 370	Landscape Analysis
GEOG 470	Hydrology and Water Resources
GEOG 312	Geology of California
GEOG 375	Groundwater Hydrology
HSCI 352	Principles of Environmental Health
HSCI 401	Advanced Environmental Health
HSCI 478	Environmental Health Management

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.	8
---	---

Total Units	29
-------------	----

## 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. 482) 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  
B.A. 1995, M.A. 1998, University of Oregon  
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. 728) with tracks in:
  - Track A (Teaching Track)
  - Track B
  - Track C (Public and Oral History Option)

### Minor

- History (p. 731)

## 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 Mexican war, the gold rush, the state constitution, Progressive-era political reforms, and immigration. Meets the subject matter requirements for the Liberal Studies degree, in preparation for teaching grades K-8. This course meets the state code requirement in state and local government.

### HIST 305. Ancient and Medieval Europe. 4 Units.

Institutions, culture and political development of Europe in the ancient and medieval periods from circa the eighth century B.C.E. to 1350.

### 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 335. Modern Ireland. 4 Units.**

Survey of Ireland from 1798 to the present, with specific focus on the political, social, and economic consequences or English colonialism and modern nation building.

**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. United States History, Cold War Era. 4 Units.**

Major changes in the United States between in the Cold War Era, 1945 to 1991.

### **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 431. Modern China II, 1911-1949. 4 Units.**

Political, social, economic, and cultural developments in China from the fall of the Qing Dynasty (1911) through the founding of the People's Republic of China (1949). Formerly HIST 430.

**HIST 432. Modern China III, 1949-Present. 4 Units.**

Political, social, economic, and cultural developments in China from 1949 to the present.

**HIST 433. Modern Chinese History in Fiction and Film. 4 Units.**

Retrospective and contemporary film and fiction are used as a window onto the political and cultural developments of China in the twentieth century.

**HIST 435. World War II in the Pacific. 4 Units.**

Major themes surrounding World War II in the Pacific, its context and impact (1931-1945) Formerly HIST 434.

**HIST 440. Modern Japanese History. 4 Units.**

Political, social, economic, and cultural developments in Japan from the late Tokugawa era and the Meiji Restoration (1868) through the present.

**HIST 450. History of Southern Africa. 4 Units.**

History of the region of Southern Africa, including early African settlement, including early African settlement, colonization, apartheid, independence and contemporary developments.

**HIST 451. The History of Health and Medicine in Africa. 4 Units.**

Health and disease in Africa from the pre-colonial period to present day, the connection between science, medicine, colonialism, the construction of difference, and responses to western bio-medicine.

**HIST 465. Modern Central America. 4 Units.**

Survey of the political, economic, and social history of the five major Central American nations-Nicaragua, El Salvador, Guatemala, Honduras, and Costa Rica-from their independence in the early 19th century to the present.

**HIST 466. Foreign Relations of Latin America. 4 Units.**

Survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations.

**HIST 467. Latin American History Through Film. 4 Units.**

Cultural, social, political and economic issues that have shaped Latin America through the study and analysis of feature films and associated readings.

**HIST 469. Colonial Latin America. 4 Units.**

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period.

**HIST 470. Modern Latin America. 4 Units.**

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America.

**HIST 480. History of Christianity I. 4 Units.**

Historical development of early Christianity from its origins to the fall of Rome.

**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 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 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 616. 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. Formerly HIST 516.

**HIST 618. Advanced Cultural Resource Management. 4 Units.**

Advanced analysis of the fields of Cultural Resource Management in Museum Studies, Anthropology and Public History. Formerly HIST 518.

**HIST 623. 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. Formerly HIST 523.

**HIST 624. 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. Formerly HIST 524.

**HIST 630. California Water History. 4 Units.**

History of the development of water policy in California from pre-colonization times to present.

**HIST 676. 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. Formerly HIST 576.

**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)**

ANTH 140	World Civilizations I, the Rise of Civilization	4
or HIST 140	World Civilizations I, the Rise of Civilization	
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
ECON 200	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	4
GEOG 100	Introduction to Human Geography	4
GEOG 103	Physical Geography	5

**Upper-division History requirements (64)**

HIST 305	Ancient and Medieval Europe	4
HIST 306	Early Modern Europe, the Renaissance to 1815	4
HIST 307	Modern Europe, 1815 to the Present	4
HIST 370	History of California	4
HIST 383	Classical Islamic Civilization	4
or HIST 384	Modern Middle East	
HIST 594	Research Seminar in History	4

Four units chosen from:

4

HIST 428	Medieval China	
HIST 429	Modern China I, 1644-1911	
HIST 431	Modern China II, 1911-1949	
HIST 432	Modern China III, 1949-Present	
HIST 433	Modern Chinese History in Fiction and Film	
HIST 435	World War II in the Pacific	
HIST 440	Modern Japanese History	
Four units chosen from:		4
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 451	The History of Health and Medicine in Africa	
Four units chosen from:		4
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	
Four units of upper-division coursework in history.		4
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 371	California Indian History	
HIST 391	Chicano History	
HIST 541	U.S. Citizenship and the Law	
HIST 565	Immigration and Ethnic American History	
Twelve units of upper-division coursework in History:		12
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	United States History, Cold War Era	
HIST 540	Constitutional History of the United States	
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.)		12
Total Units		101

\* 17 units also count toward meeting General Education requirements:

## B.A. in History - Track B

Requirements (68 units)

Total units required for graduation: 180

## Requirements for the B.A. in History - Track B

ANTH 140	World Civilizations I, the Rise of Civilization	4
or HIST 140	World Civilizations I, the Rise of Civilization	
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 494	Proseminar in History	4
HIST 594	Research Seminar in History	4
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:		40
Total Units		68

### African History

A minimum of four units chosen from:

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	

### Asian History/Middle East

A minimum of four units chosen from:

HIST 383	Classical Islamic Civilization	
HIST 384	Modern Middle East	
HIST 426	Ancient and Early Imperial China	
HIST 428	Medieval China	
HIST 429	Modern China I, 1644-1911	
HIST 431	Modern China II, 1911-1949	
HIST 432	Modern China III, 1949-Present	
HIST 433	Modern Chinese History in Fiction and Film	
HIST 435	World War II in the Pacific	
HIST 440	Modern Japanese History	
HIST 485	Arab-Israeli Conflict	
HIST 486	Modern Iran	
HIST 487	Topics in Modern Middle Eastern History	
HIST 491	Nationalism and Conflict in the Middle East	

### European History

A minimum of four units chosen from:

HIST 305	Ancient and Medieval Europe	
HIST 306	Early Modern Europe, the Renaissance to 1815	
HIST 307	Modern Europe, 1815 to the Present	
HIST 320	History of Ancient Greece	
HIST 321	History of Rome	

HIST 400	Early Medieval Europe
HIST 401	High Medieval Europe
HIST 402	Renaissance and Reformation
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	United States History, Cold War Era
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	
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	

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

HIST 383	Classical Islamic Civilization	
HIST 384	Modern Middle East	

HIST 426	Ancient and Early Imperial China
HIST 428	Medieval China
HIST 429	Modern China I, 1644-1911
HIST 431	Modern China II, 1911-1949
HIST 432	Modern China III, 1949-Present
HIST 433	Modern Chinese History in Fiction and Film
HIST 435	World War II in the Pacific
HIST 440	Modern Japanese History
HIST 485	Arab-Israeli Conflict
HIST 486	Modern Iran
HIST 487	Topics in Modern Middle Eastern History
HIST 491	Nationalism and Conflict in the Middle East
Four units chosen from European History:	4
HIST 305	Ancient and Medieval Europe
HIST 306	Early Modern Europe, the Renaissance to 1815
HIST 307	Modern Europe, 1815 to the Present
HIST 320	History of Ancient Greece
HIST 321	History of Rome
HIST 400	Early Medieval Europe
HIST 401	High Medieval Europe
HIST 402	Renaissance and Reformation
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
Four units chosen from Latin American History:	4
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
Four units chosen from United States History:	4
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	United States History, Cold War Era
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
Twelve units of upper-division history course work (300-599). Eight units from outside of history may be chosen with advisory approval.	12
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:	4
ANTH 312	Historical Archaeology
or HIST 312	Historical Archaeology
HIST 340	African-American History, 1620-1865
HIST 341	African-American History, 1865-Present
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	United States History, Cold War Era
HIST 360	American History Through Film
HIST 391	Chicano History
HIST 395	Topics in History
HIST 396	Topics in History
HIST 422	20th Century Americans
HIST 540	Constitutional History of the United States
HIST 556	Foreign Relations of the United States
HIST 560	History of the American West
HIST 565	Immigration and Ethnic American History

#### European history (4)

Four units chosen from:	4
HIST 305	Ancient and Medieval Europe
HIST 306	Early Modern Europe, the Renaissance to 1815
HIST 307	Modern Europe, 1815 to the Present

HIST 320	History of Ancient Greece
HIST 321	History of Rome
HIST 400	Early Medieval Europe
HIST 401	High Medieval Europe
HIST 402	Renaissance and Reformation
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 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

**Nonwestern history (4)**

Four units chosen from: 4

HIST 383	Classical Islamic Civilization
HIST 384	Modern Middle East
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 390	History of Modern Mexico
HIST 426	Ancient and Early Imperial China
HIST 428	Medieval China
HIST 431	Modern China II, 1911-1949
HIST 432	Modern China III, 1949-Present
HIST 435	World War II in the Pacific
HIST 440	Modern Japanese History
HIST 450	History of Southern Africa
HIST 451	The History of Health and Medicine in Africa
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

**Electives (20)**

Twenty units of history courses, of which 12 units must be upper-division. 20

Total Units 32

## Department of Political Science

### Department of Political Science

Social and Behavioral Sciences Building, Room 112  
(909) 537-5535 Department of Political Science website (<http://polisci.csusb.edu>)

### Bachelor of Arts

Political Science

### Minors

- Philosophy, Policy, and Economics
- Political Science
- Pre-law

### Master of Arts

- National Security Studies

### Master of Science

- National Security Studies Cyber Security Emphasis

### 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. Student must have completed at least 15 quarter hours or ten semester hours of work in political science including at least one course not open to students in the first two years of collegiate work. The student must have at least 90 credits overall. Seniors must have at least a 3.0 average or higher in all political science courses and at least a 3.0 average overall. Juniors must have at least a 3.25 grade point average overall and in all political science courses. Additional information can be obtained from the Department of Political Science.

### National Security Studies

#### National Security Studies Office

Social and Behavioral Sciences Building, Room 112  
(909) 537-5534 National Security Studies website (<http://nss.csusb.edu>)

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 6:00 and 10:00 p.m.

Headquartered within the National Security Studies program is the California State University Intelligence Community Center of Academic Excellence (IC CAE) that develops students for potential careers in the intelligence community, national service, or as local first responders through education in foreign affairs, world languages, and security studies.

### **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 12 quarter units of graduate work 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

M.A. 1992, Ph.D. 1996, Michigan State 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

M.A. 1991, Ph.D. 1994, Michigan State University

## **Emeriti**

Richard T. Ackley, Professor

Carol F. Goss, Professor

Albert K. Karnig, Professor, President Emeritus

Brij B. Khare, Professor

Michael LeMay, Professor

Ralph Salmi, Professor

James D. Thomas, Professor

## **Undergraduate Degree**

### **Bachelor of Arts**

- Political Science (p. 738)

### **Minors**

- Philosophy, Policy, and Economics (p. 710)
- Political Science (p. 739)
- Pre-law (p. 739)

## **Certificate Programs**

- Intelligence Methodology (p. 738)
- International Relations (p. 739)

## **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 603. Cyber Security and Cyber Warfare. 4 Units.**

Examination of cyberspace as a domain of war and conflict used by state and non-state actors.

**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 relations 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.

**PSCI 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.

**PSCI 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.

**PSCI 699. Thesis. 2 Units.**

Prerequisites: completion of coursework and consent of thesis committee

.

**PSCI 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 Political Science

## Requirements (68 units)

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:		8
PSCI 320	The Legislative Process	
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:		8
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:		8
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:		8
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:		8
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:		16
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

## 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

PSCI 484	National Security Policy	4
PSCI 592	Seminar in Government	4
PSCI 621	Strategic Intelligence	4
GEOG 202	Introduction to Geographic Information Systems and Cartography	5
GEOG 308	Advanced Geographic Information Systems	5
or GEOG 402	Geographic Information Systems Applications	
A minimum of four units chosen from:		4
CJUS 550	Crime and Intelligence Analysis	
GEOG 406	Digital Image Processing	
GEOG 610	Military Geography for National Security	
PSCI 590	Seminar in International Relations ((when topics are Intelligence and Ethis or techniques of Intelligence Analysis))	
PSCI 606	Analysis of International Terrorism	
PSCI 620	Understanding Intelligence Failure	
MATH 611	Operations Analysis	
SSCI 695B-D	Directed Graduate Studies (Research or Intern Project for a maximum of 8 units)	
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: 20

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
PSCI 325	American Foreign Policy
PSCI 400	International Politics
PSCI 484	National Security Policy
PSCI 500	International Law
PSCI 510	International Organization
PSCI 540	Seminar in Comparative Politics
PSCI 590	Seminar in International Relations

Twelve units chosen from: 12

ECON 430	International Economics
ECON 435	Multinational Corporations
ECON 450	Global Economy
FIN 433	International Business Finance
HIST 503	Europe Since 1945
HIST 556	Foreign Relations of the United States
MGMT 405	Managing Across Borders
MGMT 406	International Business Law
MGMT 407	Comparative Management Systems of the Americas
MKTG 470	International Marketing Management
SSCI 300	Nonwestern World

Total Units 32

## Requirements for a minor in Political Science

PSCI 203	American Government	4
PSCI 204	International Relations	4
PSCI 314	American Political Thought	4
Twenty units of upper-division political science course work chosen in consultation with an advisor.		20
Total Units		32

## Minor in Pre-Law

### Requirements (28 units)

### Requirements for a minor in Pre-law

PSCI 328	Judicial Process	4
PSCI 410	American Constitutional Law	4
PSCI 411	The Bill of Rights	4
PSCI 535	Seminar in Constitutional Law	4
Twelve units chosen from:		12
CJUS 370	Law and the Courts	
CJUS 580	Juvenile Justice System	
HIST 540	Constitutional History of the United States	
MGMT 330	Legal Environment of Business	
PA 472	Administrative Law	
PSCI 500	International Law	
PHIL 362	Philosophy of Law	
Total Units		28

## Minor in Political Science

### Requirements (32 units)

## Department of Psychology

### 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 - Industrial and Organization Psychology Concentration
- 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:

• PSYC 597	Honors Seminar	4
PSYC 598A	Honors Project I	2
PSYC 598B	Honors Project II	2

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:

HD 597	Honors Seminar	4
HD 598A	Honors Project I	2
HD 598B	Honors Project II	2

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 Badiie, 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

B.A. 1993, M.A. 1996, Ph.D. 2001, University of Nebraska at Omaha

Robert B. Ricco, Professor, Chair  
B.A. 1980, New York University  
Ph.D. 1987, Temple University

David M. Riefer, Professor, Assistant Dean  
B.A. 1975, University of California, Los Angeles  
Ph.D. 1981, University of California, Irvine

Matt L. Riggs, Professor  
B.A. 1979, Bethany College, KS  
M.S. 1986, Ph.D. 1989, Kansas State University

Kenneth S. Shultz, Professor  
B.A. 1984, State University of New York, College at Potsdam  
M.A. 1987, Ph.D. 1992, Wayne State University

Jodie B. Ullman, Professor  
B.A. 1980, M.A. 1989, Ph.D. 1997, University of California, Los Angeles

Sharon L. Ward, Professor  
B.A. 1993, California State University, San Bernardino  
Ph.D. 1998, University of California, Riverside

Joseph Wellman, Assistant Professor  
B.A. 2005, M.S. 2007, M.A. 2010, Ph.D. 2012, University of Maine

Amanda S. Wilcox-Herzog, Professor  
B.A. 1988, University of California, Irvine  
M.Ed. 1992, Chapman University  
M.A. 1995, Ph.D. 1999, Purdue University

Eugene H. Wong, Professor  
B.A. 1986, University of California, Los Angeles  
M.A. 1989, Ph.D. 1991, University of California, Riverside

## Emeriti

Sybil Carrere, Professor, Associate Professor of Psychology

Gloria A. Cowan, Professor

Robert Cramer, Professor

Stuart Ellins, Professor

Diane F. Halpern, Professor

Philip L. Herold, Associate Professor

Charles D. Hoffman, Professor

Nikolai E. Khokhlov, Professor

Kenton L. Monroe, Professor

Frederick A. Newton, Professor

M. Jean Peacock, Professor

Geraldine B. Stahly, Professor

Faith H. Teyber, Professor

Edward C. Teyber, Professor

Joanna Worthley, Professor

## Undergraduate Degrees

### Bachelor of Arts

- Human Development
  - Child Development Track (p. 757)
  - School Age Track (p. 759)
  - Lifespan Track (p. 758)
- Psychology (p. 762)
- Psychology - Industrial and Organizational Psychology Concentration (p. 763)
- Psychology - Biological Psychology (p. 764)

## Graduate Degrees

### Master of Arts

- Child Development (p. 765)
- General Experimental Psychology (p. 767)

### Master of Science

- Psychology (p. 768) with concentrations in:
  - Clinical Counseling
  - Industrial/Organizational

## Minor

- Psychology (p. 770)

## 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 theory in the development of perception, language, memory, problem solving, reasoning, and other cognitive processes from birth through adolescence. Includes allied disciplines such as the brain sciences and applications to the field of education. Formerly HD 651 and PSYC 651.

**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, 271 and 291  
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: senior standing, EELB 310 and HD 315 or equivalent

Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Theories of achievement, motivation and research on student involvement will be addressed as they apply to classrooms where students differ in culture, gender, language, ethnicity, socioeconomic status, and handicapping conditions. Approaches to management of classroom resources and student behavior will be analyzed as students develop their own discipline plans. Five hours of observation/participation in a public elementary school classroom are required.

### **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 300. Positive Psychology. 4 Units.**

Exploration of theories and empirical research related to positive psychology. Topics include values, human strengths, health, positive thinking, happiness, gratitude, and close relationships.

### **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 Parkinsons disease, Alzheimers 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 384. 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 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 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 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. 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.)

**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 received 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  
Theory and research on the psychological aspects of child and spousal/partner abuse. Detection, assessment and treatment of the abuse. Formerly a topic under PSYC 678.

**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.**

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 647. 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. 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 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.

**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.

### PSYC 999A. 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.

### PSYC 999B. 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 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:	4
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:	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

#### Additional Requirements (9)

HD 240	Introduction to Child Development	4
or PSYC 201	Developmental Psychology	
PSYC 210	Psychological Statistics	5

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	5
HD 240	Introduction to Child Development	4
Two units chosen from:	2	
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	4
Choose either A or B:	8	
Group A:		
HD 271	Group Education and Care of Infants and Toddlers	

HD 272	Curriculum and Programs for Infants and Toddlers	
Group B:		
HD 281	Guidance of Young Children	
HD 282	Early Childhood Curriculum and Programs	
HD 280	Early Childhood Development	4
HD 291	Interactions with Young Children: Laboratory	2
HD 292	Curriculum and Program: Laboratory	2
PSYC 100	Introduction to Psychology	4
PSYC 210	Psychological Statistics	5
<b>Upper-division requirements (51)</b>		
ANTH 330	Cross-Cultural Child-Rearing Practices	4
or ANTH 331	Anthropology of Human Development	
HD 310	Applied Research Methods	4
HD 324	Developmental Psychobiology	4
HD 400	Child Assessment	5
HD 480	Advanced Human Development	4
HD 575	Internship	4
or HD 585	Student Teaching in Early Childhood Education	
PSYC 303	Parenting and Family Relations	4
or SOC 340	Sociology of the Family	
PSYC 311	Introduction to Experimental Psychology	6
PSYC 320	Psychology of Middle Childhood	4
or PSYC 328	Psychology of Adolescent Development	
PSYC 350	Development of Exceptional Children	4
or PSYC 391	Psychopathology of Childhood	
Eight units chosen from:		8
PSYC 305	Language Development	
PSYC 358	Cognitive Development	
PSYC 384	Personality and Social Development	
<b>Electives (4)</b>		
Four units chosen from:		4
ANTH 325	Human Biological Variance and the Concept of Race	
ANTH 327	Primate Evolution and Ecology	
HD 205	Diversity in Child Development	
HD 215	Child, Family, and Community	
HD 302	History of Childhood	
HD 304	Theories of Play	
HD 520	Intergenerational Aspects of Human Development	
SOC 339	Socialization	
Total Units		95

## 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: 4

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: 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	

#### Additional Requirements (9)

HD 240	Introduction to Child Development	4
or PSYC 201	Developmental Psychology	
PSYC 210	Psychological Statistics (or its equivalent)	5

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

BIOL 100	Topics in Biology	5
PSYC 100	Introduction to Psychology	4
PSYC 201	Developmental Psychology	4

Four units chosen from: 4

ANTH 325	Human Biological Variance and the Concept of Race	
ANTH 327	Primate Evolution and Ecology	
HD 205	Diversity in Child Development	
HD 215	Child, Family, and Community	
HD 302	History of Childhood	
HD 520	Intergenerational Aspects of Human Development	
SOC 339	Socialization	

ANTH 331	Anthropology of Human Development	4
HD 324	Developmental Psychobiology	4
HD 480	Advanced Human Development	4
HD 575	Internship	4
PSYC 303	Parenting and Family Relations	4
or SOC 340	Sociology of the Family	
PSYC 358	Cognitive Development	4
PSYC 384	Personality and Social Development	4

#### Developmental Periods (12)

A minimum of 12 units from A, B, and C: 12

Group A:		
HD 270	Infant and Toddler Development	
or HD 280	Early Childhood Development	

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
<b>Applications (12)</b>	
A minimum of 12 units chosen from A, B, and C:	
Group A:	
Four units chosen from:	4
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
4	
Group C:	
Four units chosen from:	4
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)
<b>Testing and Assessment (6)</b>	
Two units chosen from:	2
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:	4
HD 400	Child Assessment
HD 460	Adult Assessment
PSYC 377	Tests and Measurements
<b>Statistics/Methodology (15)</b>	
HD 310	Applied Research Methods
4	
PSYC 210	Psychological Statistics
5	
PSYC 311	Introduction to Experimental Psychology
6	
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	
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:	4
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. 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
4	
HON 104C	Language and Meaning: Oral Communication (open only to Honors Program students)
4	

#### 4. Literature (G.E.) (4)

Four units chosen from:	4
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	
<b>5. Development of Language (4)</b>		
ENG 311	The English Language	4
<b>6. Analysis of Literature (4)</b>		
Four units chosen from:		4
ENG 301A	Analysis of Poetry	
ENG 302A	Analysis of Drama	
ENG 303A	Analysis of Prose Fiction	
ENG 304A	Analysis of Nonfiction Prose	
TA 302A	Analysis of Drama	
<b>7. Children's Literature (4)</b>		
ENG 320	Children's 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:		4
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 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:		4
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:		4
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 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:		4
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 Cultures 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

<b>1. Four units in the arts (G.E.) chosen from: (4)</b>		4
ART 200	Studies in Art	
MUS 180	Studies in Music	
TA 260	Introduction to Theatre	
<b>2. Visual Arts Activity (3)</b>		
ART 395	Art in the Classroom	3
or ART 400	Teaching Art in the Elementary Classroom	
<b>3. Music Activity (3)</b>		
MUS 370	Music for Elementary Classroom Teachers	3
<b>4. Theatre Activity (3)</b>		
Three units chosen from:		3
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

<b>1. Ideas of Mathematics (G.E.) (4)</b>		
Four units chosen from:		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	
<b>2. Fundamental Concepts of Mathematics for Educators (12)</b>		
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
<b>3. Life Science (G.E.) (5)</b>		
BIOL 100	Topics in Biology	5
<b>4. Physical Science (G.E.) (10)</b>		
CHEM 100	Chemistry in the Modern World	5
PHYS 100	Physics in the Modern World	5
<b>5. Earth and Space Science (5)</b>		
Five units chosen from:		5
ASTR 311	A Cosmic Perspective of Earth	
GEOG 311	The Dynamic Earth	
GEOL 309	Earth: The Blue Planet	
<b>6. Technology (G.E.) (2)</b>		
CSE 129	Science, Computing and Society	2
Total Units		38

## Group E: Social and Behavioral Sciences Breadth Area

### 1. American Civilization (G.E.) (4)

Four units chosen from:		4
HIST 146	American Civilization	
HIST 200	United States History to 1877	
HIST 201	United States History, 1877 to the Present	

### 2. American Government (G.E.) (4)

PSCI 203	American Government	4
----------	---------------------	---

### 3. World Civilizations I (G.E.) (4)

ANTH 140	World Civilizations I, the Rise of Civilization	4
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	4
----------	--	---

### 5. California History (4)

HIST 270	California History	4
----------	--------------------	---

### 6. Geography (4)

GEOG 300	Geography in the Elementary and Middle School Classroom	4
----------	---	---

### 7. Integrative Capstone in the Social and Behavioral Sciences (G.E.) (4)

Four units chosen from:		4
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:		2
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
<b>3. Movement Skills (4)</b>		
DAN 481 or KINE 352	Creative Dance in the Classroom Movement for Children	4
<b>4. Health (2)</b>		
HSCI 100	Concepts in Health	2
Total Units		10

## 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 Cultures 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: 6

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

### Exceptional Child (41)

PSYC 350	Development of Exceptional Children	4
HD 281	Guidance of Young Children	4
HD 282	Early Childhood Curriculum and Programs	4
HD 291	Interactions with Young Children: Laboratory	2
HD 292	Curriculum and Program: Laboratory	2
HD 304	Theories of Play	4
HD 324	Developmental Psychobiology	4
HD 400	Child Assessment	5
PSYC 303	Parenting and Family Relations	4
or SOC 340	Sociology of the Family	
PSYC 320	Psychology of Middle Childhood	4
PSYC 358	Cognitive Development	4
Total Units		47

\* **Note:** Students must maintain a "C-" or better in this course.

# Bachelor of Arts in Psychology

## Requirements (64-66 units)

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

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: 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	
PSYC 100	Introduction to Psychology (or its equivalent; also satisfies General Education category D4)	4
PSYC 101	Psychology as a Major	1
PSYC 210	Psychological Statistics	5

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: 12

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: 12

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: 4

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	

Sixteen units in upper-division psychology electives. Students intending to apply to doctoral programs in psychology are encouraged to take the following courses: 16

PSYC 357	History and Systems of Psychology	
PSYC 377	Tests and Measurements	
PSYC 410	Advanced Psychological Statistics	
PSYC 595B	Independent Study	
PSYC 595C	Independent Study	
PSYC 595D	Independent Study	

Advanced Culminating Experience

Students must select one of the following options:	4-6
Total Units	64-66

\* **Note:** Students may apply only one of these courses.

### Option I

Six units chosen from:	6	
PSYC 431	Experimental Psychology: Developmental	
PSYC 432	Experimental Psychology: Clinical	
PSYC 433	Experimental Psychology: Biological	
PSYC 434	Experimental Psychology: Social	
PSYC 435	Experimental Psychology: Personality	
PSYC 436	Experimental Psychology: Learning and Motivation	
PSYC 437	Experimental Psychology: Cognition and Perception	
PSYC 438	Experimental Psychology: Industrial and Organizational	
Total Units	6	

### Option II

Four units chosen from:	4	
PSYC 421	Advanced Seminar in Psychology: Developmental	
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 - Industrial and Organizational Psychology Concentration

### Requirements (68-70 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
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:	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	
PSYC 100 Introduction to Psychology (or its equivalent; also satisfies General Education category D4)	4
PSYC 101 Psychology as a Major	1
PSYC 210 Psychological Statistics	5

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 - Industrial and Organizational Psychology Concentration

PSYC 100 Introduction to Psychology	4
PSYC 101 Psychology as a Major	1
PSYC 210 Psychological Statistics	5
PSYC 302 Management and Organizational Behavior	4
or MGMT 302 Management and Organizational Behavior	
PSYC 310 Applied Research Methods	4
PSYC 311 Introduction to Experimental Psychology	6
PSYC 355 Industrial Psychology	4
PSYC 377 Tests and Measurements	4
PSYC 428 Advanced Seminar in Psychology: Industrial and Organizational	4-6
or PSYC 438 Experimental Psychology: Industrial and Organizational	
PSYC 575 Internship in Psychology	4
or PSYC 595D Independent Study	
Eight units chosen from:	8
PSYC 201 Developmental Psychology *	
PSYC 240 Introduction to Child Development *	
PSYC 382 Psychology of Social Behavior	

PSYC 385 Personality	
PSYC 390 Abnormal Psychology	
Twelve units chosen from:	12
PSYC 357 History and Systems of Psychology	
PSYC 360 Cognitive Psychology	
PSYC 362 Learning and Motivation	
PSYC 363 Biological Psychology	
PSYC 364 Perception	
A minimum of eight units chosen from:	8
PSYC 340 Stereotyping, Prejudice and Discrimination	
PSYC 382 Psychology of Social Behavior	
PSYC 410 Advanced Psychological Statistics	
PSYC 540 Work, Retirement and Leisure	
or HD 540 Work, Retirement and Leisure	
PSYC 581A Seminar in Industrial/Organizational Psychology: Current Professional Issues	
PSYC 581B Seminar in Industrial/Organizational Psychology: Organizational Leadership	
PSYC 581E Seminar in Industrial/Organizational Psychology: Ethical Issues in Organizations	
PSYC 581F Seminar in Industrial/Organizational Psychology: Diversity in Organizations	
PSYC 581G Seminar in Industrial/Organizational Psychology: Legal Issues for Organizational Professionals	
Total Units	68-70

\*Note: Students may apply only one of these courses.

## 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:	4
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	
<b>General Education Basic Skills in Mathematics (A3) (14)</b>		
One 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	
PSYC 100	Introduction to Psychology (or its equivalent; also satisfies General Education category D4)	4
PSYC 101	Psychology as a Major	1
PSYC 210	Psychological Statistics	5

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 311	Introduction to Experimental Psychology	6
PSYC 363	Biological Psychology	4
PSYC 442	Behavioral Neuroscience	4
Fields of Psychology. Twelve units chosen from:		12
PSYC 201	Developmental Psychology	
or 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. Four units chosen from:		4
PSYC 357	History and Systems of Psychology	
PSYC 360	Cognitive Psychology	
PSYC 364	Perception	
Foundations of Biopsychology. Eight units chosen from:		8
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 chosen units from:		12
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	
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
PSYC 210	Psychological Statistics (or a course in introductory statistics)	5

### 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

CD 531	Understanding and Guiding Child Behavior	2
CD 532	Best Practice with Young Children	2
CD 612B-E	Directed Readings (2-5 units for a total of 5 units)	5
CD 614	Theories of Child Development	4
CD 624	Advanced Developmental Neuroscience	4
CD 648	Social-Emotional Development	4
CD 651	Advanced Cognitive Development	4
CD 659	Early Childhood Assessment	4
CD 689B-E	Externship in Child Development (2-5 units for a total of 5 units)	5
CD 690	Families and Planning	4
CD 999	Comprehensive Examination	0
PSYC 640	Advanced Methods in Psychological Research	4
Eight units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor		8
<b>Total Units</b>		<b>50</b>

### Project Option

CD 531	Understanding and Guiding Child Behavior	2
CD 532	Best Practice with Young Children	2
CD 611B-E	Advanced Independent Study (2-5 units for a total of 5 units)	5
CD 614	Theories of Child Development	4
CD 624	Advanced Developmental Neuroscience	4
CD 648	Social-Emotional Development	4
CD 651	Advanced Cognitive Development	4
CD 659	Early Childhood Assessment	4
CD 690	Families and Planning	4
CD 695	Graduate Project	5
PSYC 640	Advanced Methods in Psychological Research	4
Eight units of 500- or 600-level coursework from CD, HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.		8
<b>Total Units</b>		<b>50</b>

### Thesis Option

CD 531	Understanding and Guiding Child Behavior	2
CD 532	Best Practice with Young Children	2
CD 611B-E	Advanced Independent Study (2-5 units for a total of 5 units)	5
CD 614	Theories of Child Development	4
CD 624	Advanced Developmental Neuroscience	4
CD 648	Social-Emotional Development	4
CD 651	Advanced Cognitive Development	4
CD 659	Early Childhood Assessment	4
CD 690	Families and Planning	4
CD 699	Thesis	5
PSYC 640	Advanced Methods in Psychological Research	4
PSYC 641	Analysis of Variance	5

PSYC 642	Regression and Nonparametric Statistics	4
Total Units		51

## Master of Arts in General Experimental Psychology

### Requirements (51 units)

The objective of the Master of Arts in General Experimental Psychology is to provide a program of study with courses selected from a variety of basic areas in general experimental psychology. The program provides a broad background suitable for entry into doctoral programs in any area of psychology (e.g., social, cognitive, developmental, neuroscience, or clinical); or for employment requiring a Master of Arts degree in Psychology.

### Admission to the M.A. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in psychology; or with any other undergraduate major;
  - a. Score at least at the 50th percentile on the GRE advanced test in psychology;  
OR
  - b. Satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
3. Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology program only);
4. Completion of the graduate entrance writing requirement;
5. A brief statement describing preparation for graduate study (e.g., research experience, academic accomplishments), the goals of graduate study and professional aspirations, to be submitted to the department;
6. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.);
7. Satisfaction of the prerequisites or their equivalent:
 

PSYC 100	Introduction to Psychology	4
PSYC 210	Psychological Statistics	5
PSYC 311	Introduction to Experimental Psychology	6

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, with consent of the Psychology Department, in selected graduate courses.

## Advancement to Candidacy

At the end of the spring quarter, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each quarter until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 16 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Satisfied the ethical requirements of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. Success will be determined by a passing grade in PSYC 611B (2 units). PSYC 611C (3 units) will be reserved for the completed thesis proposal after advancement. This requirement can be fulfilled in one of three ways:
  - a. Student will be required to become familiar with the literature in a research area which will be related to their thesis research. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/student groups.
  - b. Student will be required to become familiar with several related research literatures if their area of interest is currently undeveloped or if specialized knowledge of particular methodologies requires further investigation for the development of a thesis project.
  - c. Student will be required to become skilled in certain specialized research methods which will pertain to their abilities to gather data for the thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

## Requirements for Graduation

1. A minimum of 51 quarter units of approved graduate-level work, with 38 completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
4. The graduation writing requirement is met upon successful completion of the thesis;
5. Any additional general requirements not cited above and listed 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)

PSYC 611B-E	Advanced Independent Study (2-5 units for a total of 5)	5
PSYC 640	Advanced Methods in Psychological Research	4
PSYC 641	Analysis of Variance	5
PSYC 642	Regression and Nonparametric Statistics	4
PSYC 650	Advanced Cognitive Psychology	4
PSYC 652	Advanced Learning and Motivation	4
PSYC 654	Advanced Life-Span Developmental Psychology	4
PSYC 656	Advanced Biological Psychology	4
PSYC 658	Advanced Personality and Social Psychology	4
PSYC 699	Thesis	5
Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, PSYC 611, PSYC 612 and PSYC 689.		8
Total Units		51

## 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:

PSYC 100 Introduction to Psychology

PSYC 210 Psychological Statistics

or ADMN 210 Applied Business Statistics

PSYC 311 Introduction to Experimental Psychology

The following courses (or equivalent) are recommended:

PSYC 302 Management and Organizational Behavior

or MGMT 302 Management and Organizational Behavior

PSYC 355 Industrial Psychology

or MGMT 455 Human Resources Management

PSYC 377 Tests and Measurements

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:

PSYC 100 Introduction to Psychology

PSYC 210 Psychological Statistics

PSYC 311 Introduction to Experimental Psychology

PSYC 377 Tests and Measurements

PSYC 385 Personality

or PSYC 386 Introduction to Psychotherapy

PSYC 390 Abnormal Psychology

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to winter quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses, with the instructor's approval.

## Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 16 quarter units of graduate course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

## Requirements for Graduation

### Clinical/Counseling 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
  - b. Complete PSYC 699 Thesis.  
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)

PSYC 611B-E	Advanced Independent Study (2-5 units for a total of 5)	5
PSYC 616	Child and Spousal/Partner Abuse	4
PSYC 618	Community and Public Mental Health	4
PSYC 619	Community Disaster, Trauma and Resilience	4
PSYC 633	Professional Ethics and Law	4
PSYC 636	Cross-Cultural Counseling	4
PSYC 638	Substance Abuse: Detection, Assessment and Treatment	4
PSYC 640	Advanced Methods in Psychological Research	4
PSYC 641	Analysis of Variance	4-5
or PSYC 642	Regression and Nonparametric Statistics	
PSYC 654	Advanced Life-Span Developmental Psychology	4
PSYC 665	Psychopathology	4
PSYC 667	Family Processes	4
PSYC 671	Marriage and Family Therapy Skills I	5
PSYC 672	Marriage and Family Therapy Skills II	5
PSYC 673	Marriage and Family Therapy Skills III	5
PSYC 679	Theories of Counseling and Psychotherapy	4
PSYC 687A	Marriage and Family Therapy Practicum I	2
PSYC 687B	Marriage and Family Therapy Practicum II	2
PSYC 687C	Marriage and Family Therapy Practicum III	2
PSYC 697A	Advanced Practicum in Counseling Psychology I	4
PSYC 697B	Advanced Practicum in Counseling Psychology II	4
PSYC 697C	Advanced Practicum in Counseling Psychology III	4
PSYC 699	Thesis	5
Total Units		91-92

**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)

PSYC 612B-E	Directed Readings (2-5 units for a total of 5)	5
PSYC 616	Child and Spousal/Partner Abuse	4
PSYC 618	Community and Public Mental Health	4
PSYC 619	Community Disaster, Trauma and Resilience	4
PSYC 633	Professional Ethics and Law	4
PSYC 636	Cross-Cultural Counseling	4
PSYC 638	Substance Abuse: Detection, Assessment and Treatment	4
PSYC 640	Advanced Methods in Psychological Research	4
PSYC 654	Advanced Life-Span Developmental Psychology	4
PSYC 665	Psychopathology	4
PSYC 667	Family Processes	4
PSYC 671	Marriage and Family Therapy Skills I	5
PSYC 672	Marriage and Family Therapy Skills II	5
PSYC 673	Marriage and Family Therapy Skills III	5
PSYC 679	Theories of Counseling and Psychotherapy	4

PSYC 687A	Marriage and Family Therapy Practicum I	2
PSYC 687B	Marriage and Family Therapy Practicum II	2
PSYC 687C	Marriage and Family Therapy Practicum III	2
PSYC 697A	Advanced Practicum in Counseling Psychology I	4
PSYC 697B	Advanced Practicum in Counseling Psychology II	4
PSYC 697C	Advanced Practicum in Counseling Psychology III	4
Eight units of electives to be chosen from 500- or 600-level courses, excluding PSYC 575, PSYC 611 and PSYC 612.		8
PSYC 999A	Comprehensive Examination	0
Total Units		90

Recommended Elective Courses needed for licensure:

PSYC 617	Clinical Psychopharmacology	4
PSYC 682	Clinical Assessment	4
PSYC 691	Human Sexuality and Treatment	4

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.

## Industrial/Organizational

### Thesis Option (76 units)

PSYC 581A	Seminar in Industrial/Organizational Psychology: Current Professional Issues	2
PSYC 581B	Seminar in Industrial/Organizational Psychology: Organizational Leadership	2
PSYC 581C	Seminar in Industrial/Organizational Psychology: Processes of Work Groups	2
PSYC 581D	Seminar in Industrial/Organizational Psychology: Training and Executive Development	2
PSYC 581E	Seminar in Industrial/Organizational Psychology: Ethical Issues in Organizations	2
PSYC 581F	Seminar in Industrial/Organizational Psychology: Diversity in Organizations	2
PSYC 581G	Seminar in Industrial/Organizational Psychology: Legal Issues for Organizational Professionals	2
PSYC 601	Performance Assessment	4
PSYC 602	Organizational Development	4
PSYC 603	Personnel Selection and Validation	4
PSYC 604	Work Motivation and Organizational Reward Systems	4
PSYC 611B-E	Advanced Independent Study (for a total of 5 units)	5
PSYC 640	Advanced Methods in Psychological Research	4
PSYC 641	Analysis of Variance	5
PSYC 642	Regression and Nonparametric Statistics	4
PSYC 643	Multivariate Methods	4
PSYC 644	Applied Psychological Measurement	4
PSYC 675	Practicum in Applied Psychology	4
PSYC 689B-E	Externship in Applied Psychology (for a total of 5 units)	5
PSYC 699	Thesis	5
Four units chosen from:		4
PSYC 650	Advanced Cognitive Psychology	
PSYC 652	Advanced Learning and Motivation	

PSYC 654	Advanced Life-Span Developmental Psychology	
PSYC 656	Advanced Biological Psychology	
PSYC 658	Advanced Personality and Social Psychology	
A minimum of two units chosen from:		2
ACCT 503	Financial Accounting	
ECON 503	Economic Analysis	
FIN 503	Financial Management Concepts	
HD 540	Work, Retirement and Leisure	
or PSYC 540	Work, Retirement and Leisure	
MGMT 601	Organization Theory and Behavior	
MGMT 641	Managing Human Resources	
MGMT 642	Communication and Interpersonal Processes	
MGMT 644	Industrial Relations	
MGMT 655	Leadership for Modern Organizations	
MGMT 660	Managing Teams in the Workplace	
PSYC 612B-E	Directed Readings	
PSYC 631	Academic Research in Psychology	
PSYC 636	Cross-Cultural Counseling	
PSYC 665	Psychopathology	
PSYC 679	Theories of Counseling and Psychotherapy	
Total Units		76

## Minor in Psychology

### Requirements (32 units)

### Requirements for a minor in Psychology

PSYC 100	Introduction to Psychology	4
Fields of Psychology. Four units chosen from:		4
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. Four units chosen from:		4
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:		4
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	
Sixteen units of upper-division psychology electives are required.		16
Total Units		32

## Department of Sociology

### Department of Sociology

Social and Behavioral Sciences Building, Room 327  
(909) 537-5541 Department of Sociology website (<http://sociology.csbs.csusb.edu>)

### 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  
M.A. 1988, M.S. 1993, Ph.D. 1994, Stanford University

James V. Fenelon, Professor  
B.A. 1978, Loyola Marymount University  
M.A. 1981, M.A. 1983, School of International Training

Ph.D. 1995, Northwestern University

Patricia Little, Assistant Professor  
B.S. 1977, Oregon State University  
B.A. 1986, M.A. 1990, Ph.D. 1994, University of California, Riverside

Dale Lund, Professor, Chair  
B.S. 1973, M.S. 1976, Ph.D. 1979 University of Utah

Marcia Marx, Professor  
B.A. 1984, California State Polytechnic University, Pomona  
M.A. 1987, Ph.D. 1993, University of California, Riverside

Julian Montoro-Rodriguez, Professor  
B.A. 1988, University Complutense, Spain  
M.A. 1992, Ph.D. 1994, Case Western Reserve University

José Muñoz, Assistant Professor  
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

Karen Robinson, Assistant Professor  
B.A. 1998, University of California, Los Angeles  
Ph.D. 2011, University of California, Irvine

Mary Texeira, Professor  
B.A. 1989, M.A. 1992, Ph.D. 1994, University of California, Riverside

Elsa O. Valdez, Professor  
B.A. 1986, M.A. 1988, Ph.D. 1991, University of California, Riverside

King-To Yeung, Assistant Professor  
B.A. 1996, University of Guam  
M.A. 1998, Texas Tech University  
Ph.D. 2007, Rutgers University

### 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. 774)
- Sociology - Social Service Track (p. 775)

#### Minor

- Sociology (p. 776)

### Certificate Programs

- Gerontology (p. 775)
- Social Services (p. 776)

## 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.**

Prerequisites: SOC 100

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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **SOC 340. Sociology of the Family. 4 Units.**

A systematic and comparative analysis of family structure and change: marriage, reproduction, childrearing, marital problems. Prerequisite: SOC 100.

### **SOC 341. Marriage and Family Among Blacks. 4 Units.**

Forces affecting the black family, with emphasis on the roles assigned to individual members. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **SOC 343. Sociology of Family Violence. 4 Units.**

The occurrence, causes and effects of family violence as a social phenomenon. Formerly SOC 320. Prerequisite: SOC 100.

### **SOC 350. Criminology. 4 Units.**

Causes of crime with emphasis on sociological factors. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

### **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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**SOC 434. Community Organization. 4 Units.**

Programs of action, operative and proposed, for the organization of the community and the solution of its problems. Prerequisite: SOC 100.

**SOC 436. Group Dynamics. 4 Units.**

Dynamics of primary group relationships, including psychotherapy groups. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**SOC 445. Latino Health. 4 Units.**

Current research issues, methodologies, and theoretical approaches concerning the health of the Latino community in the U.S.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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.**

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. Prerequisites: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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. Prerequisite: SOC 100.

**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

**Requirements for the B.A. in Sociology**

SOC 100	The Study of Society	4
SOC 301	Qualitative Research	4
SOC 307	Social Research I	5
SOC 309	Social Research II	5
SOC 311	Sociological Theory	4
SOC 590	Seminar in Sociology (or any 500-level or higher SOC course except for SOC 595 Independent Study)	4

**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.

Total Units 62

**Social Inequality**

SOC 336	Black Women and Feminism	4
SOC 341	Marriage and Family Among Blacks	4
SOC 342	The Chicano Family	4
SOC 343	Sociology of Family Violence	4

SOC 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 445	Latino Health	4
SOC 525	Indian Nations and Native America	4

**Social Control**

SOC 343	Sociology of Family Violence	4
SOC 350	Criminology	4
SOC 352	Juvenile Offender	4
SOC 354	Deviant Behavior	4
SOC 356	Sociology of Mental Illness	4
SOC 432	Political Sociology	4
SOC 450	White Collar Crime	4
SOC 484	Social Casework	4

**Community, Institutions and Social Processes**

SOC 330	Social Gerontology	4
SOC 339	Socialization	4
SOC 340	Sociology of the Family	4
SOC 341	Marriage and Family Among Blacks	4
SOC 342	The Chicano Family	4
SOC 355	Medical Sociology	4
SOC 360	Social Psychology	4
SOC 363	Sociology of Mass Communication	4
SOC 380	Sociology of Religion	4
SOC 418	Sociology of Social Welfare	4
SOC 430	Urban Sociology	4
SOC 432	Political Sociology	4
SOC 434	Community Organization	4
SOC 436	Group Dynamics	4
SOC 540	Sociology of Education	4

The sociology major calls for following a sequence through the required core courses of the discipline. After taking the introductory course, students should complete SOC 301, to be followed by the methods courses (SOC 307 and 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)

SOC 100	The Study of Society	4
SOC 301	Qualitative Research	4
SOC 307	Social Research I	5
SOC 309	Social Research II	5
SOC 311	Sociological Theory	4

#### Social Service Policy and Practice (12)

Twelve units chosen from:		12
SOC 418	Sociology of Social Welfare	
SOC 434	Community Organization	
SOC 436	Group Dynamics	
SOC 484	Social Casework	

#### Social Structures and Processes (12)

SOC 339	Socialization	4
or SOC 360	Social Psychology	

Four units chosen from:		4
SOC 340	Sociology of the Family	
SOC 341	Marriage and Family Among Blacks	
SOC 342	The Chicano Family	

Four units chosen from:		4
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	
SOC 445	Latino Health	

#### Applications in Social Services (8)

Eight units chosen from:		8
SOC 330	Social Gerontology	
SOC 343	Sociology of Family Violence	
SOC 352	Juvenile Offender	
SOC 354	Deviant Behavior	
SOC 355	Medical Sociology	
SOC 356	Sociology of Mental Illness	

#### SOC 540 Sociology of Education

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 8

##### Group A:

SOC 575	Internship in Sociology (or one additional sociology elective from those not chosen in a previous category and in consultation with department advisor)
---------	---

SOC 590	Seminar in Sociology (or any 500-level SOC course except SOC 595 Independent Study)
---------	---

##### Group B:

SOC 575	Internship in Sociology (for a total of 8)
---------	--

Total Units 62

## 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)

HSCI 423	Health and Wellness of Older Adults	4
PSYC 329	Psychology of Adulthood and Aging	4
SOC 330	Social Gerontology	4

A minimum of sixteen units of upper-division elective courses, chosen from the following courses with the approval of an academic advisor. 16

Internship or practicum experience is highly recommended, though not required; and it may be substituted for an upper-division elective course in the certificate.

ANTH 331	Anthropology of Human Development
ANTH 332	Cross-Cultural Perspectives on Aging
ANTH 340	Anthropology of Health, Illness and Healing
ANTH 578B-E	Internship in Applied Cultural Anthropology
BIOL 306	Human Heredity and Development
BIOL 314	Biology of Human Sexuality
HSCI 310	Health and Human Sexuality
HSCI 342	Nutrition for Your Health
HSCI 367	Human Disease Mechanisms
HSCI 399A	Community Service Project
HSCI 399B	Community Service Project



HSCI 550	Health Aspects of Death and Dying	
KINE 360	Physical Activity and Aging	
PSYC 540	Work, Retirement and Leisure	
PSYC 575	Internship in Psychology	
SOC 340	Sociology of the Family	
SOC 355	Medical Sociology	
SOC 434	Community Organization	
SOC 575	Internship in Sociology	
SOC 590	Seminar in Sociology	
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

SOC 100	The Study of Society	4
SOC 339	Socialization	4
SOC 418	Sociology of Social Welfare	4
SOC 434	Community Organization	4
SOC 436	Group Dynamics	4
SOC 484	Social Casework	4
SOC 575	Internship in Sociology (for a total of 8)	8
Total Units		32

## 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
-------------	--	----

## 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:

MATH 110	College Algebra	4
PSCI 203	American Government	4
PSCI 484	National Security Policy (prerequisite for the core courses)	4

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)

MATH 110	College Algebra	4
PSCI 203	American Government	4
PSCI 484	National Security Policy	4

## Degree Requirements (46 units)

### Core courses (20)

PSCI 600	Theory and History of Strategy	4
PSCI 601	Strategic Systems and Strategic Thought	4
Four units chosen from:		4

PSCI 592	Seminar in Government (:Research Methods)	
MATH 611	Operations Analysis (Note: Math 611 requires a prerequisite of a statistics course.)	

Four units chosen from:		4
PSCI 602	International Security	
PSCI 609	International Relations Theory	

Four units chosen from:		4
PSCI 624	Politics of National Security	
PSCI 625	American Foreign Policy	

### 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.	8
---	---

### 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.

CJUS 554	Terrorism
CJUS 555	Homeland Security
ECON 630	International Economic Issues
ENG 631	Approaches to Professional Writing
GEOG 610	Military Geography for National Security
HIST 556	Foreign Relations of the United States
MATH 611	Operations Analysis (if not taken as part of the core requirements)
PSCI 540	Seminar in Comparative Politics (when the topic conforms to a regional or functional field concentration)
PSCI 590	Seminar in International Relations (when the topic conforms to a regional or functional field concentration)
PSCI 592	Seminar in Government (when the topic conforms to a regional or functional field concentration)
PSCI 604	Seminar in International Law
PSCI 605	Topics in Strategy:
PSCI 606	Analysis of International Terrorism
PSCI 609	International Relations Theory (if not taken as part of core requirement)
PSCI 611	Regional Security of Eurasia
PSCI 612	African Security
PSCI 613	Middle East Security
PSCI 614	Regional Security of East Asia
PSCI 620	Understanding Intelligence Failure
PSCI 621	Strategic Intelligence
PSCI 622	Arms Control
PSCI 624	Politics of National Security
PSCI 625	American Foreign Policy
SSCI 695B-D	Directed Graduate Studies (2 or 4 units for a maximum of 10 units)

### Culminating Experience (2)

Students must complete one of the following:

PSCI 999	Comprehensive Examination	0
PSCI 699	Thesis	2

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 the Registrar and upon recommendation of the director of national security studies.

# 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.

Applicants who meet the general requirements of the university for admission to graduate study but do not meet the additional requirements listed above may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space permits, in graduate courses in the program. An unclassified postbaccalaureate student should consult with the College of Social and Behavioral Sciences to determine what steps would be necessary to advance to classified status.

## Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the advisor, at least 12 quarter units of graduate course work at this university and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved program which must have the approval of the student's advisor and the coordinator of the program.

## Requirements for Graduation

1. Completion of a minimum of 46 quarter units of acceptable graduate-level work, with at least 33 quarter units completed in residence at this university;
2. A grade of at least "B" in all Proseminars, and a grade point average of at least 3.0 ("B") in all courses taken as part of the program;
3. To provide a breadth of content in this graduate program, a 300- or 400-level course may be used to satisfy a program requirement with the expectation that coursework is increased to satisfy the 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)

- 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

- 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	United States in World War II	4
HIST 359	United States History, Cold War Era	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

PSCI 528	Formulation of Public Policy	4
PSCI 525	Constitutional Interpretation	4
PSCI 535	Seminar in Constitutional Law	4
SOC 330	Social Gerontology	4
SOC 336	Black Women and Feminism	4
SOC 341	Marriage and Family Among Blacks	4
SOC 342	The Chicano Family	4
SOC 425	Asian Americans: Origin and Ethnicity	4
SOC 441	Black Social Stratification	4
SOC 442	Chicano Social Stratification	4
SOC 525	Indian Nations and Native America	4
SSCI 515	Model United Nations	4
SSCI 590	Seminar in the Social Sciences	4

### African Studies

ANTH 302	African Archaeology	4
ANTH 357	African Societies	4
HIST 385	Africa to 1500	4
HIST 386	Africa 1500 to 1870	4
HIST 387	Africa 1870 to Present	4
HIST 388	The Rise, Decline and Legacy of Apartheid South Africa	4
HIST 389	Images of Africa	4
HIST 450	History of Southern Africa	4
HIST 451	The History of Health and Medicine in Africa	4
PSCI 301	African Politics	4
PSCI 590	Seminar in International Relations	4
SSCI 515	Model United Nations	4
SSCI 590	Seminar in the Social Sciences	4

### Asian Studies

ANTH 362	Asian Cultures and Societies	4
ANTH 365	Asian American Cultures	4
ANTH 366	Filipino Cultural Expressions	2
HIST 426	Ancient and Early Imperial China	4
HIST 428	Medieval China	4
HIST 431	Modern China II, 1911-1949	4
HIST 432	Modern China III, 1949-Present	4
HIST 435	World War II in the Pacific	4
HIST 440	Modern Japanese History	4
PSCI 305	East Asian Politics	4
PSCI 540	Seminar in Comparative Politics	4

### European Studies

HIST 305	Ancient and Medieval Europe	4
HIST 306	Early Modern Europe, the Renaissance to 1815	4
HIST 307	Modern Europe, 1815 to the Present	4
HIST 400	Early Medieval Europe	4
HIST 401	High Medieval Europe	4
HIST 402	Renaissance and Reformation	4
HIST 403	The Age of Absolutism and Enlightenment	4
HIST 405	Nazi Germany and the Holocaust	4
HIST 406	European Intellectual History	4

HIST 409	Twentieth Century Europe	4
HIST 503	Europe Since 1945	4
HIST 535	Studies in European National History	4
PSCI 300	Western Political Systems	4
PSCI 304	East European Political Systems	4
PSCI 540	Seminar in Comparative Politics	4
PSCI 590	Seminar in International Relations	4
SSCI 515	Model United Nations	4
SSCI 590	Seminar in the Social Sciences	4

### Latin America

ANTH 306	Aztecs, Maya and their Predecessors	4
ANTH 307	Incas and their Predecessors	4
ANTH 324	Pre-Columbian Art	4
ANTH 354	Cultures of Mexico and Central America	4
ANTH 356	Cultures of South America	4
ECON 540	Political Economy of Latin America	4
GEOG 322	United States and Mexico Border Issues	4
GEOG 621	Seminar in the Geography of Latin America	4
HIST 390	History of Modern Mexico	4
HIST 465	Modern Central America	4
HIST 466	Foreign Relations of Latin America	4
HIST 467	Latin American History Through Film	4
HIST 469	Colonial Latin America	4
HIST 470	Modern Latin America	4
SSCI 304	Contemporary Latin America	4
SSCI 515	Model United Nations	4
SSCI 590	Seminar in the Social Sciences	4
SOC 590	Seminar in Sociology	4

### Middle Eastern Studies

ANTH 303	Prehistory of the Middle East and Europe	4
ANTH 358	Peoples of the Middle East	4
HIST 383	Classical Islamic Civilization	4
HIST 384	Modern Middle East	4
HIST 485	Arab-Israeli Conflict	4
HIST 486	Modern Iran	4
HIST 487	Topics in Modern Middle Eastern History	4
HIST 491	Nationalism and Conflict in the Middle East	4
HIST 492	U.S. Media and the Middle East	4
HIST 493	Iran-U.S. Relations	4
HIST 495	Politics of Oil	4
PSCI 308	Government and Politics of the Middle East	4
PSCI 540	Seminar in Comparative Politics	4
PSCI 540	Seminar in Comparative Politics	4
SSCI 515	Model United Nations	4
SSCI 516	Model Arab League	4
SSCI 590	Seminar in the Social Sciences	4

### Track C (Topical Focus)

- 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).

ANTH 316	Archival Practices
or HIST 316	Archival Practices
ANTH 318	Introduction to Cultural Resource Management
or HIST 318	Introduction to Cultural Resource Management
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 334	Anthropology and Film
ANTH 341	Globalization and Culture
ANTH 343	Magic, Religion and Science
ANTH 366	Filipino Cultural Expressions
ANTH 380	Gender and Language
ANTH 388	Language and Culture
ANTH 472	Colonial and Postcolonial Anthropology
ECON 333	Political Economy of Women: Money, Sex, Race, and Power
ECON 352	Political Economy of Poverty and Discrimination
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People
ECON 360	Economics of the Environment
ECON 430	International Economics
ECON 435	Multinational Corporations
ECON 450	Global Economy
ECON 500	History of Economic Thought
ECON 520	Social Economics
ECON 573	Economics of Crime
ECON 630	International Economic Issues
GEOG 307	Transportation Issues and Development
GEOG 320	Geography of Social Issues
GEOG 312	Geography of the Developing World
GEOG 313	Geography of the Developed World
GEOG 341	Military Geography
GEOG 350	Conservation and Natural Resources
GEOG 360	Weather and Climate
GEOG 365	Climate Change
GEOG 370	Landscape Analysis
GEOG 415	Urban Planning and Land Development
GEOG 420	Geography of Economic Activity
HIST 312	Historical Archaeology
HIST 326	Historic Preservation
HIST 329	Topics in Public History
HIST 330	Topics in Oral History
HIST 360	American History Through Film
HIST 370	History of California

HIST 375	Museum Methods
HIST 377	Historical Documentaries
HIST 379	The History of Madness
HIST 388	The Rise, Decline and Legacy of Apartheid South Africa
HIST 451	The History of Health and Medicine in Africa
HIST 467	Latin American History Through Film
HIST 480	History of Christianity I
HIST 481	History of Christianity II
HIST 556	Foreign Relations of the United States
HIST 495	Politics of Oil
HIST 575	Internship in History
HIST 616	Advanced Archival Practices
HIST 618	Advanced Cultural Resource Management
HIST 623	Advanced Public History
HIST 624	Advanced Oral History
HIST 676	Advanced Exhibit Design
PSCI 300	Western Political Systems
PSCI 306	Developing Political Systems
PSCI 311	Foundations of Modern Political Thought
PSCI 313	Modern Political Thought
PSCI 315	Post Modern Political Thought
PSCI 326	Political Parties and Interest Groups
PSCI 328	Judicial Process
PSCI 330	State and Local Politics
PSCI 342	The Politics of Environment
PSCI 352A-E	Minority Politics:
PSCI 400	International Politics
PSCI 484	National Security Policy
PSCI 500	International Law
PSCI 510	International Organization
PSCI 520	War and Politics
PSCI 525	Constitutional Interpretation
PSCI 530	Studies in Political Theory
PSCI 540	Seminar in Comparative Politics
PSCI 590	Seminar in International Relations
PSCI 592	Seminar in Government
PSCI 606	Analysis of International Terrorism
PSCI 609	International Relations Theory
SOC 340	Sociology of the Family
SOC 343	Sociology of Family Violence
SOC 350	Criminology
SOC 352	Juvenile Offender
SOC 354	Deviant Behavior
SOC 355	Medical Sociology
SOC 356	Sociology of Mental Illness
SOC 358	Punishment and Corrections
SOC 360	Social Psychology
SOC 363	Sociology of Mass Communication
SOC 380	Sociology of Religion
SOC 410	Sociology of Race and Ethnicity
SOC 418	Sociology of Social Welfare

SOC 430	Urban Sociology
SOC 432	Political Sociology
SOC 434	Community Organization
SOC 436	Group Dynamics
SOC 440	Social Class
SOC 444	Sociology of Gender
SOC 450	White Collar Crime
SOC 540	Sociology of Education
SOC 545	Indigenous Peoples
SOC 590	Seminar in Sociology
SSCI 515	Model United Nations
SSCI 516	Model Arab League
SSCI 590	Seminar in the Social Sciences

## Master of Science in National Cyber Security Studies

### Requirements (56-58 units)

The Master of Science in National Cyber Security Studies will prepare students for careers in the new and growing field of cyber security.

### 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:

MATH 110	College Algebra	4
PSCI 203	American Government	4
PSCI 484	National Security Policy (prerequisite for the core courses)	4

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 Science 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 Master of Science in National Cyber 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, Core and Cyber Security field courses.

## Comprehensive Examination

Comprehensive examinations must be taken in the Core and the Cyber Security fields. The comprehensive examination committee for each

candidate will consist of the Core advisor, one advisor from the Cyber Security field and a third faculty member from either 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 Cyber Security fields, as noted above. After completion of a minimum of 30 quarter units, the student will request three faculty to form a preliminary committee, at least two of whom have instructed a course that the student has taken in the program in each of the Core and Cyber Security fields.

## Prerequisite courses (12 units)

MATH 110	College Algebra	4
PSCI 203	American Government	4
PSCI 484	National Security Policy	4

## Degree Requirements (56-58 units)

### Core courses (20)

Four units chosen from: 4

PSCI 592 Seminar in Government (Research Methods)

MATH 611 Operations Analysis (Note: Math 611 requires a prerequisite of a statistics course.)

Four units chosen from: 4

PSCI 590 Seminar in International Relations (Techniques in Intelligence Analysis)

PSCI 590 Seminar in International Relations (Intelligence and Ethics)

Four units chosen from: 4

PSCI 620 Understanding Intelligence Failure

PSCI 621 Strategic Intelligence

Four units chosen from: 4

PSCI 603 Cyber Security and Cyber Warfare

PSCI 606 Analysis of International Terrorism

Four units chosen from: 4

PSCI 600 Theory and History of Strategy

PSCI 602 International Security

### Cyber Security Field (24)

IST 511 Cyber Defense 4

IST 525 Computer Forensics 4

IST 609 Information Systems and Technology Management 4

IST 610 Information Assurance Policy and Management 4

IST 646 Information Systems Planning, Strategy and Policy 4



IST 647	Information Based Management	4
---------	------------------------------	---

**Electives (12)**

Twelve units chosen from among courses not used for the core requirements listed below.	12
---	----

CJUS 550	Crime and Intelligence Analysis	
CJUS 554	Terrorism	
CJUS 555	Homeland Security	
ECON 630	International Economic Issues	
GEOG 610	Military Geography for National Security	
HIST 556	Foreign Relations of the United States	
MATH 611	Operations Analysis (Note: requires a prerequisite of a statistics course)	
PSCI 590	Seminar in International Relations (Techniques in Intelligence Analysis)	
PSCI 590	Seminar in International Relations (Intelligence and Ethics)	
PSCI 592	Seminar in Government (Research Methods in Political Science)	
PSCI 600	Theory and History of Strategy	
PSCI 601	Strategic Systems and Strategic Thought	
PSCI 602	International Security	
PSCI 603	Cyber Security and Cyber Warfare	
PSCI 604	Seminar in International Law	
PSCI 606	Analysis of International Terrorism	
PSCI 609	International Relations Theory (if not taken as part of core requirement)	
PSCI 611	Regional Security of Eurasia	
PSCI 613	Middle East Security	
PSCI 614	Regional Security of East Asia	
PSCI 620	Understanding Intelligence Failure	
PSCI 621	Strategic Intelligence	
PSCI 622	Arms Control	
PSCI 624	Politics of National Security	
PSCI 625	American Foreign Policy	
SSCI 695B	Directed Graduate Studies	
SSCI 695D	Directed Graduate Studies	

**Culminating Experience (0-2)**

Students must complete one of the following:		
PSCI 999	Comprehensive Examination	0-2
or PSCI 699	Thesis	

Fifty-six units of course work and two units of thesis must be completed before the degree will be awarded.

Total Units	56-58
-------------	-------

## 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)

MILS 151	Basic Military Skills I	2
MILS 152	Basic Military Skills II	2
MILS 153	Basic Military Skills III	2
MILS 251	Leadership and Management I	2
MILS 252	Leadership and Management II	2
MILS 253	Leadership and Management III	2

#### Advanced Course of Study (12)

Twelve units chosen from:	12
---------------------------	----

MILS 351	Small Unit Operations I	
MILS 352	Small Unit Operations II	
MILS 353	Advanced Military Leadership and Management	
MILS 451	Military Law	
MILS 452	Contemporary Military Policy	
MILS 453	Senior Leadership Seminar	
MILS 595	Independent Study	

#### Leadership Laboratory (12)

Students must be enrolled in the following each quarter they are enrolled in the ROTC Program:	12
--	----

MILS 100	Leadership Laboratory (repeat for additional credit)	
----------	--	--

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:	4
--	---

CSE 129	Science, Computing and Society (plus two additional units of a CSE course in consultation with program coordinator )	
IST 101	Introduction to Information Technology	
Written Communications Skills. Four units chosen from:		4
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	
Military History:		
HIST 603	Seminar in Modern Military History	4
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:

MILS 260	ROTC Basic Camp	2
----------	-----------------	---

#### Advanced Course of Study (12)

Twelve units chosen from: 12

MILS 351	Small Unit Operations I	
MILS 352	Small Unit Operations II	
MILS 353	Advanced Military Leadership and Management	
MILS 451	Military Law	
MILS 452	Contemporary Military Policy	
MILS 453	Senior Leadership Seminar	

#### Leadership Laboratory (6)

Students must be enrolled in the following each quarter they are enrolled in the ROTC program.

MILS 100	Leadership Laboratory (repeat for additional credit)	
----------	--	--

**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: 4

CSE 129	Science, Computing and Society (plus two additional units of a CSE course in consultation with program coordinator )	
IST 101	Introduction to Information Technology	
Written Communications Skills. Four units chosen from:		4
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	
Military History:		
HIST 603	Seminar in Modern Military History	4
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. 16

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 Cultures 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
HUM 370	African Heritage in the Arts
MUS 352	African American Music
SOC 336	Black Women and Feminism
SOC 341	Marriage and Family Among Blacks
SOC 441	Black Social Stratification
TA 462	African-American Theatre and Drama
TA 465	Ethnic Films and Film Makers (when the topic pertains to African American studies)

## Asian Pacific American Studies

Sixteen units chosen from:

ANTH 365	Asian American Cultures
ES 595A-D	Independent Study (for a total of 4 units)
PHIL 375	Non-Western Philosophy
SOC 425	Asian Americans: Origin and Ethnicity
TA 465	Ethnic Films and Film Makers (when the topic pertains for Asian American/Asian Pacific American)

## Chicano(a)/Latino(a) Studies

Sixteen units chosen from:

ART 329	Chicano Art
COMM 409	Latina/os, Media and Culture
ENG 323	Chicano Literature
ES 595AD	Independent Study (for a total of 4 units)
GEOG 322	United States and Mexico Border Issues
HIST 391	Chicano History
HUM 335	The Origin and Contemporary Role of Latino Culture
HUM 450	Aspects of Chicana/o Culture
SOC 342	The Chicano Family
SOC 442	Chicano Social Stratification
SPAN 435	Chicano Literature in Spanish
TA 465	Ethnic Films and Film Makers (when the topic pertains to Chicano)
TA 468	Chicana/o and U.S. Latina/o Theatre

## Native American Studies

Sixteen units chosen from:

ANTH 305	North American Prehistory
ANTH 306	Aztecs, Maya and their Predecessors
ANTH 307	Incas and their Predecessors
ANTH 351	Indians of North America

ANTH 352	Indians of the Southwest	
ART 323	Native North American Art	
ENG 314	American Indian Literature	
ES 595A-D	Independent Study (for a total of 4 units)	
SOC 525	Indian Nations and Native America	

## 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

ES 102	Chicano(a)/Latino(a) Culture: An Overview	4
ES 300	Research Methods in Ethnic Studies	4
ES 394	Topics in Ethnic Studies	4
Eight units chosen from:		8
ANTH 306	Aztecs, Maya and their Predecessors	
ES 595A-D	Independent Study (for a total of 4 units)	
HIST 391	Chicano History	
PSCI 352C	Minority Politics: Latino Politics	
SOC 342	The Chicano Family	
SOC 442	Chicano Social Stratification	
Eight units chosen from:		8
ART 328	Mexican Art	
ART 329	Chicano Art	
ENG 323	Chicano Literature	
HUM 335	The Origin and Contemporary Role of Latino Culture	
HUM 450	Aspects of Chicana/o Culture	
SPAN 435	Chicano Literature in Spanish	
Total Units		28

## Minor in Islamic and Middle Eastern Studies

### Requirements (32 units)

### Requirements for a minor in Islamic and Middle Eastern Studies

#### Core Courses (16)

ANTH 358	Peoples of the Middle East	4
HIST 383	Classical Islamic Civilization	4
HUM 375	The World of Islam	4

PSCI 308	Government and Politics of the Middle East	4
----------	--	---

#### Electives (16)

Sixteen units chosen from: 16

ANTH 303	Prehistory of the Middle East and Europe	
ARAB 216	Introduction to Arabic Literary Texts	
ARAB 290	Arabic Literature in Translation	
ARAB 370	Arabic Film and Culture	
ARAB 470A-E	Contemporary Issues in Arab Culture: Emerging Architecture	
ARAB 471	Media in the Arab World	
ARAB 480	Special Topics in Classical Islamic Texts	
ARAB 481	Special Topics in Contemporary Arabic Literature	
COMM 565	Advanced Topics in Media Studies (when the topic is Islamic/Middle East)	
ENG 319	Studies in Literary Diversity (when the topic is Contemporary Middle Eastern Literature, Contemporary Middle Eastern Fiction, Non-western Women Writers)	
HIST 330	Topics in Oral History (when the topic is Middle Eastern)	
HIST 384	Modern Middle East	
HIST 480	History of Christianity I	
HIST 485	Arab-Israeli Conflict	
HIST 486	Modern Iran	
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 493	Iran-U.S. Relations	
PSCI 540	Seminar in Comparative Politics (when the topic is Islamic/Middle East)	
An Independent Study course (595) chosen in anthropology, English, history, humanities or political science on a Middle Eastern topic.		

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  
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

Stanley Taylor, Assistant Professor  
B.A. 1996, M.S. 2000, D.P.D.S. 2004, University of Southern California

## Emeriti

Morley Glickin, Professor

Melvin G. Hawkins, Professor

Marshall Jung, Professor

Nancy Mary, Professor

Teresa Morris, Professor

## Undergraduate Degree

### Bachelor of Arts

- Social Work (p. 793)

### Graduate Degree

- Master of Social Work (p. 794)

## 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. Practice theory and models.

**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. Introductory intervention skills.

**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/ agencies 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 student's 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 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 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 and additional lower division requirements;
3. An overall grade point average (GPA) of 2.5 or higher
4. 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:		4
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	4
----------	--------------------	---

### Basic Skills in Mathematics (A3) (4)

One 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	

### Basic Skills in Critical Thinking (A4) (4)

PSYC 105	Critical Thinking Through Problems Analysis	4
or SOC 180	Critical Thinking about Social Problems	

### Natural Sciences Breadth Area (B2) (5)

BIOL 100	Topics in Biology	5
----------	-------------------	---

### Humanities Breadth Area (C3) (4)

SPAN 103	College Spanish III	4
----------	---------------------	---

### Social and Behavioral Sciences Breadth Area (D4) (8)

PSYC 100	Introduction to Psychology	4
----------	----------------------------	---

SOC 100	The Study of Society	4
---------	----------------------	---

### Additional Lower Division Requirements to enter the B.A. in Social Work (8)

SW 200	Introduction to Social Work	4
--------	-----------------------------	---

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	4

## 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	4
or PSYC 391	Psychopathology of Childhood	

Four units chosen from:

PSYC 382	Psychology of Social Behavior	
SOC 339	Socialization	
SOC 360	Social Psychology	
PSCI 380	Introduction to Public Administration	4
or PA 380	Introduction to Public Administration	
SW 300A	Social Welfare Policy I	4
SW 300B	Social Welfare Policy II	4
SW 301	Social Work Research	6
SW 302A	Human Behavior and the Social Environment I	4
SW 302B	Human Behavior and the Social Environment II	4

Four units chosen from:

SW 320	Child Welfare Services	
SW 325	Social Work Interventions in Substance Abuse	
SW 590	Special Topics	
SW 400A	Social Work Practice I	4
SW 400B	Social Work Practice II	4
SW 400C	Social Work Practice III	4
SW 401A	Field Work	4
SW 401B	Field Work	4
SW 401C	Field Work	4

### 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

CJUS 354	Victimology	4
CJUS 370	Law and the Courts	4
CJUS 460	Alcohol, Drugs, and the Criminal Justice System	4
CJUS 462	Domestic Violence and the Criminal Justice System	4
CJUS 465	Hate Crime and Law Policy	4

## Economics

ECON 333	Political Economy of Women: Money, Sex, Race, and Power	4
ECON 352	Political Economy of Poverty and Discrimination	4
ECON 357	Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People	4
ECON 445	Political Economy	4
ECON 520	Social Economics	4

## Human Development

HD 205	Diversity in Child Development	4
HD 324	Developmental Psychobiology	4
HD 372	Psychology of Death and Dying	4

## Political Science

PSCI 330	State and Local Politics	4
PSCI 528	Formulation of Public Policy	4

## Psychology

PSYC 303	Parenting and Family Relations	4
PSYC 320	Psychology of Middle Childhood	4
PSYC 328	Psychology of Adolescent Development	4
PSYC 329	Psychology of Adulthood and Aging	4
PSYC 351	Behavior Modification: Principles and Applications	4
PSYC 386	Introduction to Psychotherapy	4
PSYC 387	Community Psychology	4

## Sociology

SOC 340	Sociology of the Family	4
SOC 343	Sociology of Family Violence	4
SOC 410	Sociology of Race and Ethnicity	4
SOC 440	Social Class	4
SOC 442	Chicano Social Stratification	4

## 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;

- Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
- Completed with a grade point average of 3.0 ("B"), at least 48 quarter units of course work;
- Demonstrated academic and professional competence in field and classroom.

## Requirements for Graduation

- A minimum of 90 quarter units of designated graduate courses as approved on the petition for advancement to candidacy. Seventy-seven of the quarter units must be completed at this university (with the exception of MSW course work from an accredited program);
- A grade point average of at least 3.0 ("B");
- Completion of a culminating research project or a thesis;
- 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;
- Completion of all MSW coursework within a four year period;
- Completion of SW 625A and SW 625B, which will fulfill the graduation writing requirement;
- 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:		
SW 602A	Foundation Micro Practice I	4
SW 602B	Foundation Micro Practice II	4
SW 602C	Foundation Micro Practice III	2
Foundation Macro Practice:		

SW 606A	Foundation Macro Practice I	4
SW 606B	Foundation Macro Practice II	4
SW 606C	Foundation Macro Practice III	2
HBSE:		
SW 604A	Human Behavior in the Social Environment I	4
SW 604B	Human Behavior in the Social Environment II	4
Research:		
SW 612	Social Work Research I	4
SW 613	Social Work Research II	4
Field:		
SW 608A	Field Work	4
SW 608B	Field Work	4
SW 608C	Field Work	4
Four units of electives, approved by advisor if taken outside the school.		
<b>Advanced Year (38)</b>		
Research:		
SW 625A	Research Project I	2
SW 625B	Research Project II	2
Field:		
SW 608D	Field Work	4
SW 608E	Field Work	4
SW 608F	Field Work	4
Advanced Practice Courses:		
Micro Practice:		
SW 645	Social Work Advanced Micro Practice I	4
SW 646	Social Work Advanced Micro Practice II	4
SW 647	Social Work Advanced Micro Practice III	2
Macro Practice:		
SW 655	Social Work Advanced Macro Practice I	4
SW 656	Social Work Advanced Macro Practice II	4
SW 657	Social Work Advanced Macro Practice III	2
Integrative Seminar:		
SW 660	Advanced Practice Integrative Seminar	2
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.

## Undergraduate 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>)

### Bachelor of Arts

Special Major

### Certificate

Health Equity and Health Disparities

### Undergraduate Degrees

### Bachelor of Arts

- Special Major (p. 796)

### Certificate

Health Equity and Health Disparities (p. 797)

Coordinator: Dale Lund

## 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 through 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).

## 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

ANTH 340	Anthropology of Health, Illness and Healing
HSCI 271	Introduction to Public Health
PSYC 318	Health Psychology
SOC 355	Medical Sociology

Select the required number of courses from each of the following four areas of concentration (total 20 units)

Measuring Health Outcomes (4 units required): 4

GEOG 202	Introduction to Geographic Information Systems and Cartography
HSCI 451	Principles of Epidemiology
HSCI 468	Research Methodology in Health Science
PSYC 310	Applied Research Methods
SOC 307	Social Research I

Socio-Economic, Behavioral, and Environmental Factor (8 units required): 8

ANTH 340	Anthropology of Health, Illness and Healing (if not taken in Core Courses)
ANTH 345	Urban Anthropology
COMM 304	Intercultural Communication
COMM 401	Gender, Race and Media
COMM 560	Health Communication
GEOG 320	Geography of Social Issues
HSCI 271	Introduction to Public Health (if not used as a Core course)
HSCI 359	Global Health
HSCI 360	Medical Care Organizations
HSCI 364	Drug and Alcohol Use and Abuse
PSYC 318	Health Psychology (if not used as a Core course)
PSYC 387	Community Psychology
SOC 355	Medical Sociology (if not used as a Core course)

Community Action & Policy (4 units required): 4

ANTH 344	Applied Anthropology and Social Policy
HSCI 471	Health Program Planning and Implementation

PA 305 Organizations in Multicultural and Diverse Societies

PA 472 Administrative Law

PA 516 Public and Non-Profit Project Management

PSCI 320 The Legislative Process

SOC 432 Political Sociology

SOC 434 Community Organization

Specific Populations (4 units required): 4

ANTH 365 Asian American Cultures

COMM 409 Latina/os, Media and Culture

GEOG 322 United States and Mexico Border Issues

SOC 440 Social Class

SOC 410 Sociology of Race and Ethnicity

or SSCI 316 Race and Racism

SSCI 315 Cultural Adaptation: The Quest for Survival

Capstone Experience 2-5

Total Units 30-33

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>)

## 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.

## Master of Arts

Interdisciplinary Studies

## Graduate Degrees

- Master of Arts in Interdisciplinary Studies (p. 799)

# 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.

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).

## 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;

# Index

---

## A

About the Bulletin .....	9
About the University .....	16
Academic Calendar .....	26
Academic Regulations and Standards .....	102
Academic Support and Campus Services .....	71
Accreditation .....	25
Adapted Physical Education Added Authorization Credential .....	503
Administrative Services Preliminary (Internship) Credential .....	434
Administrative Services Preliminary Credential .....	435
Administrative Services Professional Credential .....	435
Admission .....	28
Aerospace Studies (Air Force ROTC) Program .....	672
Autism Spectrum Disorder Added Authorization in Special Education Credential .....	458

## B

B.A. in Administration Accounting Concentration .....	361
B.A. in Administration Entrepreneurial Management Concentration .....	361
B.A. in Administration Finance Concentration .....	362
B.A. in Administration Financial Planning Concentration .....	363
B.A. in Administration Human Resource Management Concentration .....	363
B.A. in Administration Information Systems and Technology Concentration .....	364
B.A. in Administration International Business Concentration .....	365
B.A. in Administration Management Concentration .....	366
B.A. in Administration Marketing Concentration .....	367
B.A. in Administration Public Administration Concentration .....	368
B.A. in Administration Real Estate Concentration .....	369
B.A. in Administration Sports and Entertainment Marketing .....	369
B.A. in Administration Supply Chain and Transportation Management Concentration .....	370
B.S. in Administration Information Systems and Technology Concentration .....	371
Bachelor of Arts in American Studies .....	179
Bachelor of Arts in Anthropology .....	688
Bachelor of Arts in Arabic Language, Literature, and Culture .....	324
Bachelor of Arts in Art - Plan I (Visual Studies) .....	190
Bachelor of Arts in Art - Plan II (Studio Art) .....	192
Bachelor of Arts in Art - Plan III (Art History) .....	193
Bachelor of Arts in Art - Plan IV (Graphic Design) .....	194
Bachelor of Arts in Art - Plan V (Graphic Design and Marketing) .....	195

Bachelor of Arts in Biology .....	548
Bachelor of Arts in Biology - Integrated Teaching Track .....	548
Bachelor of Arts in Biology - Pre-Med Option .....	549
Bachelor of Arts in Chemistry - Biochemistry Option .....	565
Bachelor of Arts in Chemistry - Chemistry Option .....	566
Bachelor of Arts in Chemistry - Integrated Teaching Track .....	566
Bachelor of Arts in Communication .....	212
Bachelor of Arts in Computer Systems .....	661
Bachelor of Arts in Criminal Justice .....	700
Bachelor of Arts in Criminal Justice - Crime Analysis Option .....	701
Bachelor of Arts in Economics .....	708
Bachelor of Arts in Economics - Applied Economics .....	709
Bachelor of Arts in Economics - Mathematical Economics .....	709
Bachelor of Arts in Economics - Political Economy .....	710
Bachelor of Arts in English .....	236
Bachelor of Arts in Environmental Studies .....	717
Bachelor of Arts in French .....	329
Bachelor of Arts in Geography - Geography Option .....	719
Bachelor of Arts in Geography - Global Studies Option .....	719
Bachelor of Arts in Geology .....	580
Bachelor of Arts in Geology - Integrated Teaching Track .....	580
Bachelor of Arts in History .....	728
Bachelor of Arts in Human Development - Child Development Track .....	757
Bachelor of Arts in Human Development - Lifespan Track .....	758
Bachelor of Arts in Human Development - School Age Track .....	759
Bachelor of Arts in Liberal Studies - Arts and Letters Track (Non-credential) .....	342
Bachelor of Arts in Liberal Studies - General Track (Pre-Credential) .....	343
Bachelor of Arts in Liberal Studies - Integrated Track (B.A. and Multiple Subject Credential) .....	347
Bachelor of Arts in Liberal Studies - Spanish Studies Track .....	350
Bachelor of Arts in Mathematics .....	626
Bachelor of Arts in Mathematics - Teaching Track .....	626
Bachelor of Arts in Music .....	260
Bachelor of Arts in Philosophy .....	270
Bachelor of Arts in Physics .....	650
Bachelor of Arts in Political Science .....	738
Bachelor of Arts in Psychology .....	762
Bachelor of Arts in Psychology - Biological Psychology .....	764
Bachelor of Arts in Psychology - Industrial and Organizational Psychology Concentration .....	763
Bachelor of Arts in Social Sciences - Credential Track .....	673
Bachelor of Arts in Social Sciences - Multidisciplinary Track .....	674

Bachelor of Arts in Social Work .....	793	Certificate in California Indian Languages and Cultures .....	334
Bachelor of Arts in Sociology .....	774	Certificate in Career and Technical Education .....	437
Bachelor of Arts in Sociology - Social Service Track .....	775	Certificate in Coaching .....	614
Bachelor of Arts in Spanish .....	330	Certificate in Communication Skills .....	215
Bachelor of Arts in Theatre Arts .....	284	Certificate in Computer Systems and Programming .....	665
Bachelor of Arts with Special Major .....	796	Certificate in Conflict Management .....	215
Bachelor of Music in Performance .....	261	Certificate in Counseling .....	459
Bachelor of Science in Administration Cyber Security Concentration .....	371	Certificate in Criminal Justice .....	702
Bachelor of Science in Bioinformatics .....	550	Certificate in Crosscultural, Language and Academic Development (CLAD) .....	503
Bachelor of Science in Biology .....	551	Certificate in Cyber Security .....	372
Bachelor of Science in Biology - Ecology and Evolution Option .....	551	Certificate in E-Learning .....	438
Bachelor of Science in Biology - Pre-Med Option .....	552	Certificate in Education .....	503
Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation .....	553	Certificate in Education of the Gifted and Talented .....	460
Bachelor of Science in Career and Technical Studies .....	436	Certificate in Educational Technology .....	438
Bachelor of Science in Chemistry - ACS Certified Option .....	568	Certificate in Fitness Management .....	615
Bachelor of Science in Chemistry - Biochemistry Option .....	568	Certificate in French/English Translation .....	335
Bachelor of Science in Computer Engineering .....	662	Certificate in Gender and Sexuality Studies .....	504
Bachelor of Science in Computer Science .....	662	Certificate in Geographic Information Systems .....	720
Bachelor of Science in Geology .....	581	Certificate in Gerontology .....	601
Bachelor of Science in Health Science .....	597	Certificate in Gerontology .....	775
Bachelor of Science in Information Systems and Technology .....	392	Certificate in Health Care Management .....	602
Bachelor of Science in Kinesiology - Allied Health Professions .....	612	Certificate in Health Equity and Health Disparities .....	797
Bachelor of Science in Kinesiology - Exercise Science .....	613	Certificate in Hispanic Literatures .....	335
Bachelor of Science in Kinesiology - Pedagogy .....	613	Certificate in Holistic and Integrative Education .....	505
Bachelor of Science in Mathematics .....	627	Certificate in Information Systems Management .....	373
Bachelor of Science in Nursing .....	641	Certificate in Intelligence Methodology .....	738
Bachelor of Science in Nursing - RN to BSN Bridge Program .....	642	Certificate in International Relations .....	739
Bachelor of Science in Nutrition and Food Sciences .....	598	Certificate in Introductory Actuarial Science .....	632
Bachelor of Science in Physics .....	650	Certificate in Introductory Mathematics .....	632
Bachelor of Science in Physics - Applied Physics .....	651	Certificate in Islamic and Middle Eastern Studies .....	679
Bachelor or Arts in Career and Technical Studies .....	437	Certificate in Japanese Language and Culture .....	336
Bulletin Contents .....	160	Certificate in Latin American Studies .....	690
<b>C</b>		Certificate in Museum Studies .....	690
Certificate for German/English Translators .....	332	Certificate in Native Nations/Indigenous Peoples Studies .....	680
Certificate in Accounting .....	372	Certificate in Puppetry .....	285
Certificate in Applied Cultural Anthropology .....	689	Certificate in Reading and Literacy .....	505
Certificate in Arabic .....	333	Certificate in Recreation Leadership .....	615
Certificate in Archaeology .....	689	Certificate in Rehabilitation Counseling .....	460
Certificate in Asian Studies .....	214	Certificate in School Business Management .....	438
Certificate in Bilingual/Cross-Cultural Studies: Spanish/English .....	334	Certificate in Social Services .....	776
Certificate in Biotechnology .....	556	Certificate in Spanish Applied Linguistics .....	336
Certificate in Business Skills for the Artist .....	195	Certificate in Spanish for Public Services .....	337

Certificate in Supply Chain Management .....	373	Department of Political Science .....	732
Certificate in Teaching English as a Second Language .....	237	Department of Psychology .....	740
Certificate in Teaching Writing .....	237	Department of Public Administration .....	403
Certificate in Theatre for Youth .....	286	Department of Sociology .....	771
Certificate in Urban Planning .....	720	Department of Special Education, Rehabilitation and Counseling .....	448
Certificate in Writing: Creative Writing .....	238	Department of Teacher Education and Foundations .....	482
Certificate in Writing: Professional Writing .....	238	Department of Theatre Arts .....	273
Certificates .....	55	Department of World Languages and Literatures .....	290
Certificates .....	67	Designated Subjects Career and Technical Education Credential .....	439
College of Arts and Letters .....	171	Doctor of Education in Educational Leadership .....	439
College of Business and Public Administration .....	355	<b>E</b>	
College of Education .....	417	Early Childhood Special Education Added Authorization Credential .....	460
College of Natural Sciences .....	532	Education Specialist Clear Credential .....	461
College of Social and Behavioral Sciences .....	666	Extended Learning (CEL) .....	129
Colleges, Schools, and Departments .....	170	<b>F</b>	
Credentials .....	57	Faculty .....	132
Credentials .....	69	Financial Information .....	86
<b>D</b>		<b>G</b>	
Degrees and Programs A-Z .....	166	General Education Program .....	47
Department of Accounting and Finance .....	374	Graduate Degree and Program Requirements .....	60
Department of Anthropology .....	681	Graduate Degrees .....	66
Department of Art .....	180	Graduate Degrees and Programs .....	60
Department of Biology .....	536	Graduate Degrees and Programs under Development .....	70
Department of Chemistry and Biochemistry .....	558	Graduate Studies .....	799
Department of Communication Studies .....	201	<b>H</b>	
Department of Criminal Justice .....	693	Healthcare Spanish Certificate .....	337
Department of Economics .....	705	Home .....	8
Department of Educational Leadership and Technology .....	424	<b>I</b>	
Department of English .....	222	Interdisciplinary Studies .....	796
Department of Geography and Environmental Studies .....	712	Internship Education Specialist Credential: .....	461
Department of Geological Sciences .....	572	Internship Education Specialist Credential: .....	463
Department of Health Science and Human Ecology .....	583	Internship Education Specialist Credential: .....	465
Department of History .....	722	<b>L</b>	
Department of Information and Decision Sciences .....	385	Liberal Studies Program .....	342
Department of Kinesiology .....	603	<b>M</b>	
Department of Management .....	392	Master of Arts in Applied Archaeology .....	691
Department of Marketing .....	398	Master of Arts in Art - Art Education .....	195
Department of Mathematics .....	617	Master of Arts in Art - Studio Art .....	196
Department of Music .....	246	Master of Arts in Child Development .....	765
Department of Nursing .....	634	Master of Arts in Communication Studies .....	216
Department of Philosophy .....	266	Master of Arts in Criminal Justice .....	702
Department of Physics .....	646	Master of Arts in Education - Bilingual/Cross-Cultural Option .....	506

Master of Arts in Education - Career and Technical Education Option ...	441	Master of Science in Special Education .....	471
Master of Arts in Education - Curriculum and Instruction Option .....	507	Master of Social Work .....	794
Master of Arts in Education - Holistic and Integrative Education Option ..	509	Military Science (Army ROTC) Program .....	784
Master of Arts in Education - Instructional Technology Option .....	443	Minor in Accounting .....	413
Master of Arts in Education - Kinesiology Option .....	510	Minor in Anthropology .....	692
Master of Arts in Education - Reading and Literacy Option .....	511	Minor in Applied Mathematics .....	631
Master of Arts in Education - Special Education Option .....	466	Minor in Applied Physics .....	651
Master of Arts in Education - Teacher Leadership Option .....	445	Minor in Arabic .....	339
Master of Arts in Education - Teaching English to Speakers of Other Languages (TESOL) Option .....	513	Minor in Art History .....	199
Master of Arts in Education -Correctional & Alternative Education Option .....	515	Minor in Asian Studies .....	218
Master of Arts in Education -Mathematics and Science Education Option .....	517	Minor in Biology .....	556
Master of Arts in Educational Administration .....	446	Minor in Business Administration .....	413
Master of Arts in English Composition .....	239	Minor in Business Information Mapping .....	413
Master of Arts in General Experimental Psychology .....	767	Minor in Career and Technical Education .....	447
Master of Arts in Interdisciplinary Studies .....	799	Minor in Chemistry .....	571
Master of Arts in Mathematics .....	629	Minor in Communication .....	219
Master of Arts in National Security Studies .....	776	Minor in Computer Science .....	665
Master of Arts in Rehabilitation Counseling .....	469	Minor in Criminal Justice .....	704
Master of Arts in Social Sciences and Globalization .....	778	Minor in Economics .....	710
Master of Arts in Spanish .....	338	Minor in Education .....	520
Master of Arts in Teaching-Mathematics .....	630	Minor in English .....	244
Master of Arts in Theatre Arts .....	286	Minor in Entrepreneurship .....	413
Master of Business Administration .....	409	Minor in Environmental Studies .....	720
Master of Business Administration - Executives Option .....	412	Minor in Ethnic Studies .....	785
Master of Business Administration - Professionals Option .....	412	Minor in Ethnic Studies - Chicano(a)/Latino(a) Studies .....	787
Master of Fine Arts in Creative Writing .....	242	Minor in Film Studies .....	220
Master of Fine Arts in Studio Art .....	198	Minor in Finance .....	413
Master of Public Administration .....	407	Minor in French .....	340
Master of Public Health .....	599	Minor in Gender and Sexuality Studies .....	521
Master of Science in Accountancy .....	382	Minor in Geography .....	721
Master of Science in Accountancy (3:2 Program Option) .....	383	Minor in Geography - Global Studies .....	721
Master of Science in Biology .....	554	Minor in Geology .....	582
Master of Science in Computer Science .....	663	Minor in German .....	340
Master of Science in Counseling and Guidance .....	470	Minor in Graphic Design - Print .....	199
Master of Science in Earth and Environmental Studies .....	569	Minor in Graphic Design - Web .....	199
Master of Science in Health Services Administration .....	600	Minor in Health Science .....	601
Master of Science in National Cyber Security Studies .....	782	Minor in History .....	731
Master of Science in Nursing .....	644	Minor in Human Resources Management .....	414
Master of Science in Psychology .....	768	Minor in Information Systems and Technology .....	414
Master of Science in Science, Technology, Engineering and Mathematics Education Option .....	518	Minor in Intercultural Communication .....	220
		Minor in International Business .....	414
		Minor in Islamic and Middle Eastern Studies .....	787

Minor in Japanese .....	341	Professional Clear Level II Education Specialist Credential: .....	478
Minor in Jazz Studies .....	264	Professional Clear Level II Education Specialist Credential: .....	478
Minor in Kinesiology .....	615	Professional Level II Education Specialist Credential: .....	479
Minor in Latin American Studies .....	353	Programs .....	57
Minor in Law and Philosophy .....	271	Pupil Personnel Services Credential: School Counseling .....	479
Minor in Management .....	414	Pupil Personnel Services Credential: School Psychology .....	480
Minor in Marketing .....	415	<b>R</b>	
Minor in Mathematics .....	631	Reading and Literacy Leadership Specialist Credential .....	527
Minor in Music .....	264	<b>S</b>	
Minor in Nutrition and Food Sciences .....	601	School of Computer Science and Engineering .....	652
Minor in Philosophical Logic .....	271	School of Social Work .....	787
Minor in Philosophy .....	272	Single Subject - Intern Track Credential .....	528
Minor in Philosophy, Policy, and Economics .....	272	Single Subject - Student Teaching Track Credential .....	530
Minor in Philosophy, Policy, and Economics .....	710	Student Life .....	79
Minor in Physics .....	651	Supervision and Coordination of Designated Subjects Program .....	447
Minor in Political Economy .....	711	<b>T</b>	
Minor in Political Science .....	739	The CSU System .....	10
Minor in Pre-Law .....	739	<b>U</b>	
Minor in Psychology .....	770	Undergraduate Degree and Program Requirements .....	43
Minor in Public Administration .....	415	Undergraduate Degrees .....	51
Minor in Public Relations .....	220	Undergraduate Degrees and Programs .....	41
Minor in Real Estate .....	415	Undergraduate Degrees and Programs under Development .....	59
Minor in Recording Arts .....	264	Undergraduate Studies .....	41
Minor in Recreation .....	616	University Honors .....	46
Minor in Script Writing .....	221		
Minor in Sociology .....	776		
Minor in Spanish .....	341		
Minor in Sports and Entertainment Marketing .....	415		
Minor in Studio Art .....	199		
Minor in Supply Chain Management .....	415		
Minor in Theatre Arts .....	287		
Minors .....	53		
Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential .....	521		
Multiple Subject Credential .....	523		
Multiple Subject Credential and Multiple Subject Credential .....	525		
<b>P</b>			
Palm Desert Campus (PDC) .....	21		
Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization .....	473		
Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization .....	474		
Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization .....	476		