# 2009 - 2010 Academic Calendar

Please note: This is not intended to be construed as an employee work calendar.

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**FALL 2009 SEMESTER**
- August 24: First Day of Fall Semester
- August 24-26: Departmental Advising
- August 28: Convocation
- August 31: First Day of Classes
- September 7: Labor Day (campus closed)
- October 12: Columbus Day (campus open)
- November 11: Veteran's Day (campus closed)
- November 25: Fall Break (Campus open; classes not in session)
- November 26 and 27: Thanksgiving Day (campus closed)
- December 11: Last Day of Classes
- December 14-19: Final Examinations
- December 24: Last Day of Fall Semester
- December 25-January 22: Winter Recess

**SPRING 2010 SEMESTER**
- January 22: First day of Spring Semester
- January 22: Departmental Advising
- January 25: First Day of Classes
- February 15: Presidents Day (Campus open)
- March 29 - April 2: Spring Reces (classes not in session)
- March 31: Cesar Chavez Day (campus closed)
- May 14: Last Day of Classes
- May 17-22: Final Examinations
- May 25, 27, 28: Commencements
- May 28: Last Day of Spring Semester
- May 31: Memorial Day (Campus closed)

**WINTER 2010 SESSION**
- January 4: First Day of Classes
- January 18: Martin Luther King, Jr. Holiday (campus closed)
- January 22: Last Day of Classes

**SUMMER 2010 SESSION**
- June 1-July 9: Session I
- June 21-July 31: Session II
- July 5: Independence Day Observed (Campus closed)
- July 12-August 20, Session III
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**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

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THE CALIFORNIA STATE UNIVERSITY

The individual California State Colleges were brought together as a system by the Donohue Higher Education Act of 1960. In 1972, the system became the California State University and Colleges, and in 1992 the system became the California State University. Today the campuses of the CSU include comprehensive and polytechnic universities and, since July 1965, the California Maritime Academy, a specialized campus.

The oldest campus—San Jose State University—was founded in 1857 and became the first institution of public higher education in California. The newest—CSU Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees, whose members are appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with implementation at the campus level by the Chancellor and the Board of Trustees through the Chancellor.

Academic excellence has been achieved by the California State University through a distinguished faculty whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses are multipurpose institutions that offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All campuses require for graduation a basic program of "General Education Requirements" regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,800 bachelor's and master's degree programs in some 357 subject areas. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time, late afternoon, and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California. In 2005, the CSU was authorized to independently offer educational doctorate (Ed.D.) programs, and a total of 10 CSU campuses currently have Ed.D. programs.

Enrollments in fall 2003 totaled 450,000 students, who were taught by some 24,000 faculty. The system awards about half of the bachelor's degrees and a third of the master's degrees granted in California. Nearly 2.5 million students have graduated from CSU campuses since 1961.

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Chief Financial Officer............................Dr. Benjamin F. Quillian
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Long Beach, California 90802-4210
A world of information is just a click away.

Check out the website for the entire California State University: www.csumentor.edu. You will find helpful hints, frequently asked questions, campus tours, and general information about all 23 campuses. The phone number listed for each campus is for the Office of Admission.

1  California State University, Bakersfield - Q
   9001 Stockdale Highway, Bakersfield, CA 93311-1099
   (661) 654-3036  •  www.csusb.edu

2  California State University, Channel Islands - S
   One University Drive, Camarillo, CA 93012
   (805) 437-8400  •  www.csuci.edu

3  California State University, Chico - S
   400 W. First Street, Chico, CA 95929
   (530) 824-6221  •  www.csuchico.edu

4  California State University, Dominguez Hills - S
   1000 E. Victoria Street, Carson, CA 90747
   (310) 243-3646  •  www.csudh.edu

5  California State University, East Bay - Q
   5200 Carlmont Boulevard, Hayward, CA 94544-4193
   (510) 885-2284  •  www.csueastbay.edu

6  California State University, Fresno - S
   5150 North Maple Avenue, Fresno, CA 93740-0577
   (559) 278-2281  •  www.csufresno.edu

7  California State University, Fullerton - S
   800 N. State College Blvd., Fullerton, CA 92831-4060
   (714) 278-2500  •  www.fullerton.edu

8  Humboldt State University - S
   1 Harp Street, Arcata, CA 95521-0957
   (707) 826-4102  •  (800) 859-9556  •  www.humboldt.edu

9  California State University, Long Beach - S
   1250 Bellflower Blvd., Long Beach, CA 90840-0106
   (562) 985-4771  •  www.csulb.edu

10 California State University, Los Angeles - Q
    5150 State University Drive, Los Angeles, CA 90032-8530
    (310) 338-3500  •  www.cusla.edu

11 California Maritime Academy - S
    200 Maritime Academy Drive, Vallejo, CA 94590
    (707) 654-1105, (800) 561-1945  •  www.csma.edu

12 California State University, Monterey Bay - S
    100 Campus Center Drive, Seaside, CA 93955-8001
    (831) 582-3788  •  www.csumb.edu

13 California State University, Northridge - S
    1811 North Campus Drive, Northridge, CA 91330-8207
    (818) 677-3750  •  www.csun.edu

14 California State Polytechnic University, Pomona - Q
    3801 West Temple Avenue, Pomona, CA 91768-4005
    (909) 869-9739  •  www.cspu.edu

15 California State University, Sacramento - S
    6000 J Street, Sacramento, CA 95819-6112
    (916) 278-3901  •  www.csus.edu

16 California State University, San Bernardino - Q
    5500 University Parkway, San Bernardino, CA 92405-2997
    (909) 537-5188  •  www.csusb.edu

17 San Diego State University - S
    5500 Campanile Drive, San Diego, CA 92182-7455
    (619) 594-6566  •  www.sdsu.edu

18 San Francisco State University - S
    1600 Holloway Avenue, San Francisco, CA 94132-1604
    (415) 358-1135  •  www.sfsu.edu

19 San José State University - S
    One Washington Square, San José, CA 95192-0993
    (408) 924-7500  •  www.sjsu.edu

20 California Polytechnic State University, San Luis Obispo - Q
    San Luis Obispo, CA 93407
    (805) 756-2511  •  www.calpoly.edu

21 California State University, San Marcos - S
    333 S. Twin Oaks Valley Road
    San Marcos, CA 92096-0001
    (760) 753-8048  •  www.csumc.edu

22 Sonoma State University - S
    400 East Cotati Avenue, Rohnert Park, CA 94928
    (707) 664-2788  •  www.sonoma.edu

23 California State University, Stanislaus - S
    One University Circle, Turlock, CA 95382
    (209) 667-6070  •  www.csustan.edu

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Welcome to the Beach

Welcome to California State University, Long Beach. In 2009 we celebrate our 60th anniversary as one of the nation's most vibrant and successful public universities.

CSULB is characterized by exceptional academic programs, dedicated faculty, and outstanding support services. Here you will find an exciting, rigorous learning environment that promotes global engagement and prepares you for the challenges and opportunities of tomorrow. We offer study abroad options in over 30 countries, a variety of community service learning programs, more than 300 student organizations, 30 intramural sports, and 18 NCAA Division 1 athletic teams. I encourage you to take advantage of all that CSULB has to offer.

Take pride in knowing you are attending a university that is nationally recognized as one of the top public comprehensive universities in the United States, one of the top 10 universities for awarding bachelor's degrees to minority students, and one that has fewer than 40 percent of its students graduating in debt.

There has never been a better time to be part of the CSULB community. Welcome and GO BEACH!

F. King Alexander
President
Among the Nation's Best

Los Angeles-Orange County State College opened its doors on September 28, 1948, to an entering group of 169 juniors and seniors. The schedule of classes listed 25 courses taught by 13 faculty members in support of five undergraduate majors. The campus consisted of two converted apartment buildings at 5381 and 5401 Anaheim Road in Long Beach. Within two years the City of Long Beach purchased a permanent site for the fledgling institution and donated it to the state, construction began on the first permanent buildings, and the renamed Long Beach State College moved to its present location. Two decades later the rapidly growing institution had earned designation as a university and became the largest single campus in the California State University system. Today, as CSULB celebrates its 60th anniversary, it is nationally recognized as a leading public comprehensive university.

University Distinctions

▲ One of the top 50 best value public colleges in the nation in 2009 by The Princeton Review.
▲ Seventh in the nation in conferring bachelor’s degrees to students of color and fourth in the nation for awarding mathematics and statistics graduate degrees to minority students, according to a 2008 report in Diverse Issues in Higher Education.
▲ Second in the nation among master’s degree granting institutions in producing Fulbright Awards for U.S. students in 2008-09, according to The Chronicle of Higher Education.
▲ Third in the West and eighth in the nation for having the lowest percentage of students graduating with debt according to U.S. News and World Report.
▲ First in the number of graduates among master’s universities who went on to earn research doctoral degrees in science and engineering between 1997 and 2006, according to a recent federal study.
▲ The Department of Athletics was recognized by the NCAA as one of the 2007-2008 winners in the Overall Excellence in Diversity category and the Bickerstaff Center has been recognized by the National Academic Advising Association for providing exemplary services to student athletes.

Mission
California State University, Long Beach is a diverse, student-centered, globally-engaged public university committed to providing highly-valued undergraduate and graduate educational opportunities through superior teaching, research, creative activity and service for the people of California and the world.

Vision
California State University, Long Beach envisions changing lives by expanding educational opportunities, championing creativity, and preparing leaders for a changing world.

Values
▲ Educational Opportunity
▲ Excellence
▲ Diversity
▲ Integrity
▲ Service

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Outstanding Faculty

The faculty of California State University, Long Beach are committed to excellence in both teaching and research. Students have an opportunity for regular contact with their professors as well as involvement in original research and creative activities under faculty supervision. As a result, CSULB serves more than 300 California high school valedictorians and National Merit finalists among its current undergraduate population.

About the Campus

California State University, Long Beach is located three miles from the ocean and stretches across 323 beautifully landscaped acres. CSULB is home to 84 buildings including:

- The state-of-the-art Molecular Life Sciences Center with 43 laboratories, 19 teaching labs, 24 directed-studies labs used by faculty and staff and 42 faculty/student offices.
- The largest, best-equipped instructional dance facility in the nation.
- The University Library, which maintains an extensive collection of information resources for study, research, enrichment, and recreation and houses the Spidell Technology Center, the largest student computing facility on campus.

CSULB’s beauty is marked by 3,200 Helen Borchert flowering peach trees that were donated by the citizens of Long Beach and an extensive sculpture collection, which was created in 1965 when the International Sculpture Symposium contributed nine monumental pieces and designs to the University. In 1972 additional community funds in the form of a trust provided for the completion of the Carlson Memorial Tower, designed by French sculptor Andre Bloc.

The campus sculpture collection has continued to grow, with the addition of works by artists such as Guy Dill, Michael Davis, Robert Irwin, Bryan Hunt, and Woods Davy. These acquisitions were made possible through private donations and grants from the National Endowment for the Arts to the University Art Museum.

With approximately 37,000 students, California State University, Long Beach has the largest single-campus enrollment in the CSU system. About 2,400 faculty and 1,800 professional staff members work at the University, which is organized into eight colleges and 63 academic departments and programs.
Life at the Beach

California State University, Long Beach offers a broad range of programs and activities to help students reach their academic goals and enhance their personal, intellectual and social development. From study abroad opportunities, campus clubs and athletic events to art and cultural performances, there is something for everyone at CSULB.

The Arts – Plays, music, and dance are performed in the University’s seven theater facilities virtually every night of the week. The University Art Museum and the student and faculty galleries in the Art and Design departments afford access to exciting innovations in the visual arts.

Athletics – Eighteen men’s and women’s sports compete in our excellent, competitive NCAA Division I athletic program. The women’s volleyball team has appeared in eight Final Fours in the last 20 years, winning three national championships and finishing second in 2001. The University also includes club or intramural competition in approximately 30 different sports.

Community Service – CSULB offers many opportunities for students to make a difference in the community including volunteer programs and courses that integrate service learning.

Campus Organizations and Greek Life – The Associated Students, Inc. and the Office of Student Life and Development sponsor about 300 campus organizations, including cultural associations and religious, political, and social action clubs. In addition, more than 30 fraternities and sororities provide students with the opportunity to join national and local organizations with founding values based on community service, scholarship, campus involvement, leadership, and friendship.

Honor Societies – CSULB is home to numerous honor societies, including Phi Beta Kappa, the oldest and most prestigious honor society for students of the liberal arts and sciences, Phi Kappa Phi, the largest honor society recognizing superior scholarship in all academic disciplines, and Golden Key International Honour Society.

International Education – CSULB offers many opportunities for global engagement. The University is home to more than 1,200 students from all over the world, allowing for rich international connections on campus. Events like the President’s Forum on International Human Rights offer a global perspective on critical world issues. And CSULB offers students the chance to study in more than 30 countries through short and long-term study abroad programs.

University Student Union – Located in the center of campus, the University Student Union (USU) offers weekly entertainment and numerous recreation activities. A “home away from home,” USU amenities include bowling lanes, billiards, a television lounge, outdoor swimming pool, food court, computer center, and facilities for meetings, conferences, luncheons, and films.
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## Course Prefixes and Definitions

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ADMISSION TO CSULB

Choosing CSULB

CSULB’s core academic purpose is to graduate students with highly valued degrees. Our faculty and staff are dedicated to fostering student success both in and out of the classroom. We encourage prospective students to find out more about our campus to see if CSULB is the right choice for them.

The Office of University Outreach and School Relations is the primary student recruitment and guest relations office for the university. It disseminates information on the CSU and CSULB Admissions and financial aid policies and procedures; on CSULB’s academic programs; and on student services to prospective students and counselors from high schools and community colleges in the CSULB service area and surrounding communities.

A major focus of University Outreach and School Relations is the implementation of outreach and recruitment programs and services to reach a diverse pool of talented high school and transfer students for whom CSULB is their “University of Choice.” The Office, under the direction of the President, is also responsible for recruitment of President’s Scholars (California valedictorians and National Merit Finalists and Semi-Finalists).

University Outreach and School Relations offers guided campus tours by appointment. Those interested in visiting the campus should call (562) 985-5355. Specialized campus visits for K-12 students, parents, counselors and other interested groups may also be arranged.

In addition, the office administers pre-admissions and application workshops for prospective freshmen and transfer students; the Young Scholars Program for qualified high school students; the Early Assessment Program (EAP); admission services for adult re-entry students; and educational awareness and academic enrichment services for elementary and middle school students.

The Office of University Outreach and School Relations is located in Brotman Hall, Room 209. For more information, visit the UOSR website at www.csulb.edu/outreach.

Admissions Procedures and Policies

Requirements for admission to California State University, Long Beach are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at www.csumentor.eduplanning.

Electronic versions of the CSU undergraduate and graduate applications are accessible on the World Wide Web at http://www.csumentor.edu. The CSUMentor system allows students to browse through genral information about the CSU’s twenty-three campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid. Information on CSULB requirements and deadlines can be found at www.csulb.edu.

Applying online via www.csumentor.edu is expected unless electronic submission is impossible, when online applications have been submitted. Application in “hard copy” form may be obtained online via www.csumentor.edu as a portable data format (PDF). Paper applications may be mailed to the campus admission office.

Importance of Filing Complete, Accurate, and Authentic Application Documents

CSU, Long Beach advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, of Title 5, California Code of Regulations).

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study in day or evening classes must file a complete undergraduate application. The $55 nonrefundable application fee should be in the form of a check or money order payable to “The California State University” or by credit card when 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 and/or closed campus may be re-routed to another campus at no cost, but only if the applicant is CSU eligible and the campus is still open to applicants.

Readmission

Students who break attendance by not enrolling in classes each semester, and who have not filed for educational leave, must reapply for admission. Transcripts of work completed elsewhere during the absence must also be submitted. Students who left under academic disqualification must submit a “Reinstatement Petition” and an “Application for Reinstatement” with their completed application prior to August 1 for the Fall semester or December 1 for the Spring semester.

Impacted Programs

The CSU designates programs as impacted when more applications from CSU regularly eligible students are received in the initial filing period (October and November for fall terms, August for spring terms) than can be accommodated. Some programs are impacted at every campus where they are offered; others are impacted only at some campuses. Candidates for admission must meet supplementary criteria if applying to an impacted program. The CSU will announce during the fall filing period those programs that are impacted and the supplementary criteria that will apply. Detailed information is available at http://www.calstate.edu/impaction/info.shtml and via www.csumentor.edu. That announcement will also be published in official CSU publications distributed to high school and college counselors, and made available online.
at www.calstate.edu. Information about the supplementary criteria is also provided to program applicants.

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

**Supplementary Admission Criteria**

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshmen applicants based on the CSU eligibility index or rank ordering of transfer applicants based on the overall transfer grade point average, 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 and no later than December of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants are made available by the campuses to applicants who seek admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at http://www.calstate.edu/admissioninfo.shtml.

**Application Filing Periods**

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**Filing Period Duration**

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. Students applying after the initial filing period should consult the campus admissions office for current information. Similar information is conveniently available at http://www.csunmentor.edu/filing_status/Default.asp.

**Application Acknowledgment**

On-time applicants may expect to receive an acknowledgment from their first-choice campus within two to four weeks after filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants must CSU admission requirements and campus requirements for admission to an impacted program. An offer of admission is not transferable to another term or to another campus.

**Undergraduate Requirement Deadlines**

Prior to matriculation, students must complete, in a timely manner, admission requirements — including subject requirements, unit minimums, grade-point averages, final transcript and testing requirement. Refer to the Enrollment Services web site (www.csulb.edu/enrollment) for current requirements.

**Intrasystem and Intersystem Enrollment Programs**

Upper-division 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 admission to the desired program 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 should consult their home campus academic advisors to determine how such courses may apply to their specific 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 Office of Enrollment Services.

CSU Concurrent Enrollment – matriculated students in good standing may enroll in a space available at both their home CSU campus and a host CSU campus during the same 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.

CSU Visitor Enrollment – matriculated students in good standing enrolled at one CSU campus may enroll on a space available basis 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.

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.

**Concurrent Enrollment Within the CSU**

All CSULB students wishing to enroll concurrently at CSULB and one of the other 23 California State University campuses must request permission to do so from the Office of Enrollment Services. Concurrent enrollment within the California State University system is limited to students who have completed a minimum of 12 units at CSULB, have a minimum 2.0 grade-point average, are in good academic standing and have paid fees at CSULB for 12 units or more regardless of the total number of units earned at both campuses. No additional fees may be collected after the last day to add classes. Concurrent Enrollment is subject to space availability and registration priority policies at the host campus.

No graduate student may register concurrently at this and any other collegiate institution without advance permission. Permission may be given for concurrent enrollment at CSULB and other institutions if recommended by the department graduate advisor and approved by the Dean of the appropriate college. Forms for concurrent enrollment may be obtained from the college office. When such permission is granted, the academic load at CSULB must be reduced accordingly.
Visitor Enrollment Within the CSU

Students enrolled in any CSU campus may apply to transfer temporarily to another CSU campus in Visitor status, if they have (1) completed 12 units at the home campus, (2) have earned at least a 2.0 cumulative GPA at the home campus, (3) are in good academic standing at the home campus, and (4) are eligible to register under continuing status at the home campus. Approval for visitor enrollment is valid for one term only and is subject to the host campus policies including application deadlines, space availability, and registration priority. Details and Visitor Enrollment Applications are available at the Office of Enrollment Services. Students from other CSU campuses seeking visitor status at CSULB must also contact their home registration office for additional information.

Other Applicants

Applicants not admissible at this time under any of the preceding provisions are advised to enroll in another institution such as a community college, to prepare for admissibility at a future date.

Open University (Adjunct Enrollment) — Through Open University, students who are NOT matriculated in the University may take regular University classes for academic credit on a "space available" basis with permission of the department chairperson and the course instructor. Open University enrollment does NOT constitute admission to CSULB. Students may apply up to 24 units of Open University credit in Special Sessions toward a baccalaureate degree. At the option of the appropriate college and department, up to six units may be applied to a graduate degree. This limit may be increased to 9 units in some instances. For specifics, check with the department chair. For more information call University College and Extension Services at (562) 985-5661.

University College and Extension Services — University College and Extension Services (UCES) programs are designed to meet the personal and professional development learning needs of the community. Through its credit and non-credit programs, seminars and special programs, teleconferences, and customized workplace training, UCES brings the resources of CSULB to individuals and groups in formats convenient to their life/work situations, including courses delivered online. Unless they are offered in fulfillment of a degree program, Special Sessions courses do not require admission to CSULB. UCES also administers the Winter Session program, in addition to a variety of credit courses throughout the academic year. For a free catalog of current offerings, call (562) 985-5661 or stop by the UCES office, located at Foundation Education Center (FNO 104), 6300 State University Drive.

Summer Session and Winter Session Students

Summer and Winter Session enrollment is open to all CSULB students, prospective students, students from other colleges and universities, and interested individuals from the community. No application or admissions process is required for Summer and Winter registration.

Registration in Spring as an Open University student does not insure the privilege of enrolling in the Fall or Spring semester. To register for Winter Session courses, students should contact University College and Extension Services at (562) 985-5661.

To register for Summer Sessions, contact the Office of Enrollment Services, see http://www.csulb.edu/summo.

Freshman Applicants

Preparation and Eligibility

California State University, Long Beach continues to be the University of Choice for a talented and diverse group of California's best and brightest students. Beginning with Fall 2002, CSULB has been receiving more first-time freshman applicants than can be accommodated. To maintain the academic quality of CSULB academic programs and services, supplemental admissions criteria, are applied to first-time freshman applicants. First-time freshmen must:

- Apply on time, preferably on-line. Apply between October 1 and November 30.
- Take the SAT or ACT preferably during October but no later than December and request scores be sent to CSULB.
- Complete the CSU required 15 unit course pattern prior to graduation.
- Perform well — earn the best grades possible (including the senior year).
- Pursue a back-up plan should they not be offered admission to CSULB.

Students will qualify for regular admission when the university verifies that they have a CSULB qualifiable minimum eligibility index and will have completed the comprehensive pattern of college preparatory "a-g" subjects. Applicants to an impacted program must also meet supplementary criteria.

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. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements with bonus points for approved honors courses (excluding physical education and military science).

Up to eight semesters of honors courses taken in the last two years of high school, including up to two approved courses taken in the tenth grade, can be accepted. Each unit of "A" in an honors course will receive a total of 3 points; with 4 points for a "B," and 3 points for a "C." A CSU Eligibility Index (EI) can be calculated by multiplying a grade-point average by 800 and adding a 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 (add 2 points to the ACT score received if taken prior to October, 1989). Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2100 using the SAT 1 or 694 using the ACT to be considered for admission.

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For admission to terms during the 2009-2010 college year, the university has no plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index.

Persons who neither graduated from a California high school nor are residents of California for tuition purposes, need a minimum index of 3502 (SAT) or 842 ACT; (2 points are added to the ACT score if it was taken prior to October, 1980). 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. 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. Impacted CSU campuses require SAT or ACT scores of all applicants for freshman admission.

California State University, Long Beach requires all applicants for freshman admission to submit test scores from the SAT I or ACT, regardless of their high school grade-point average. No freshman applicants will be admitted who have not submitted the required test scores.

Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

Subject Requirements

The California State University requires that first-time freshman applicants complete, with grades of "C" or higher, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

Social Science — 2 years to include 1 year of U.S. History and/or Government

English — 4 years

Mathematics — 3 years to include algebra, geometry, and intermediate algebra

Science — 2 years with laboratory to include 1 year of biological science and 1 year physical science

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

Visual and Performing Arts — 1 year-long course in which the second semester builds on the first from a single VPA area to include art, dance, drama/theater, or music

Electives — 1 year selected from the areas above.

Foreign Language Waiver

The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to or higher than that expected of students who complete two years of foreign language study. Students should consult their school counselor or any CSU campus admission or relations with their school office for further information.

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 the CSU disabled student services program. Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that course substitutions may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the Director of Disabled Student Services at (562) 985-5401.

Honors Courses

Grades, in up to eight semester courses designated as honors courses in approved subjects and taken in the last two years of high school, receive additional points in grade-point average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; C, 3 points; D, 1 point; and none for F grades.

High School Students — Young Scholars Program

Students still enrolled in high school who have preparation equivalent to that required of eligible California high school graduates will be considered for enrollment in certain special programs if recommended by the principal and by the appropriate CSULB department chair. Such admission is only for a given specific program and does not constitute a right to continued enrollment. More information is available from the Office of University Outreach and School Relations.

Provisional Admission

California State University, Long Beach may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned for the senior year. The campus will monitor the senior year of study to ensure that admitted students complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all course work has been satisfactorily completed. 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 is found not to be eligible after the final transcript has been evaluated.

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

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Lower-Division Transfer Applicants

Students who have completed college units after graduation from high school are considered transfer students. Students who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) by the established deadlines are considered lower-division transfer students. CSULB does not currently accept applicants for most majors at the lower-division level.

Upper-Division Transfer Applicants

Students who have completed 60 or more transferable semester college units by the established deadlines are considered upper-division transfer students. (See Undergraduate Requirement Deadlines above.) Since CSULB continues to be a high-demand campus and expects to receive more applications than can be accommodated, competitive admissions have been implemented for the transfer class in order to maintain the academic quality of campus programs and services. All upper-division transfer applicants must apply to a specific major and meet the following minimum CSU standards by established deadlines:

1. Have completed a minimum of 60 transferable semester units with a GPA of at least 2.0 (C or better) in all transferable units attempted (non-residents must have a 2.4 GPA or better), and
2. Be in good standing at the last college or university attended, and
3. Have completed the General Education requirements in communication in the English language and critical thinking and the requirement in mathematics/quantitative reasoning or the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Applicants to non-impacted majors who meet the minimum criteria as outlined above will be considered in the competitive round. Admission offers will be based on applicants overall transfer grade point average and space availability. Applicants to non-impacted majors who are transferring directly from Long Beach City College and have completed at least 30 units at LBCC are eligible for the Long Beach Promise and will be held only to the minimum CSU criteria listed above.

In addition to the CSU minimum requirements outlined above, students seeking admission to impacted programs must satisfy additional, supplemental criteria. Students applying to impacted majors are encouraged to designate an alternate major in which they are seriously interested and committed to pursuing. If not admitted to an impacted program, students may be considered for admission to the alternate major or offered redirection to another CSU campus that is accepting applications. For more details, please check the campus website at www.csulb.edu/enrollment.

International Student Applicants

The International Admissions component of the Center for International Education assists academically eligible international students to apply for admission to the University, and advises them of CSULB’s financial, immigration and English language requirements.

Throughout the students’ attendance, the International Admissions office is involved in their registration, evaluation of transfer credit, changes of majors, and graduation checks. Students are also counseled regarding their field of study requirements, which vary at both the undergraduate and graduate levels.

International Admission Requirements

The CSU must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold U.S. temporary visas as students, as exchange visitors, or as members of other non-immigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of foreign students. Verification of English proficiency (see the section on TOEFL Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file by April 1st for the first term of the fall and, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those majors or programs with limited openings.

CSULB encourages eligible international students to apply for undergraduate and graduate level studies. International students are identified as those who hold non-immigrant (student or exchange) visas. Application requests and questions should be directed to International Admissions (int.admission@csulb.edu), located in the Center for International Education (BH 201).

International students need to complete a different application process than U.S. students. The following documents are required:

1. International application form;
2. $56.00 application processing fee;
3. Affidavit of support from financial sponsor;
4. Bank statement/letter from financial sponsor;
5. Proof of acceptable English proficiency (usually met by the Test of English as a Foreign Language);
6. Official academic documents and certified English translations;
7. ACT or SAT (required for student athletes and graduates of U.S. high schools);
8. GMAT (required for graduate business majors only);
9. Letters of recommendation (graduate level applicants).

Graduate applicants must check with their prospective departments for earlier deadlines. Once all the documents are submitted to the International Admissions Office, eligibility for admission will be determined based on English proficiency and academic history, as well as other considerations. Graduate applications will be forwarded to the graduate departments for review by the graduate coordinators. Once admitted, international students will receive pre-arrival, arrival, and orientation information, and the appropriate immigration forms and instructions on how to legally enter and/or remain in the U.S.
The Department of Homeland Security (DHS) requires that international students be aware of and follow DHS regulations to remain legally in the U.S. for the duration of their academic status. International students on "F" and "J" visas must be enrolled as full-time students. Courses taken through the University College and Extension Services at CSULB or courses taken concurrently at other colleges nearby may only count toward full-time status when approved in advance of course registration by the Center for International Education. Questions about DHS policies may be directed to the Center for International Education.

The Examination in English as a Second Language (EESL) is a placement test required of admitted graduate students for whom English is a second language. Failure to take the EESL test will result in registration hold placed on the student’s record. Students may also be required to enroll in one or more English as a Second Language course(s) based on performance on the test. Please contact International Student Services for more information about EESL requirements and exemptions.

TOEFL Requirement

All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must present a score of a minimum of 500 on the Test of English as a Foreign Language (TOEFL). (Applicants taking the Computer-Based Test of English as a Foreign Language must present a score of 173 or above and those taking the Internet-based [IBT] test must score 61), unless the applicant:

1. has proof of at least three years attendance at a secondary level educational institution in a country where English was the principal language of instruction.
2. CSULB interprets "where English was the principal language of instruction" to mean that a school is located in a country where English is the native language (the official language or the language of instruction) and the student receives instruction in all subjects at all levels of education in English, or
3. completed at least 60 transferable units from accredited U.S. community colleges and/or universities and earned a grade of A, B, or C in English 100 or its equivalent, or
4. successfully completed CSULB's American Language Institute's intensive English Language Program.*

Undergraduate applicants who are U.S. Citizens or Permanent Residents of the U.S. and who are subject to the above TOEFL requirement may submit results from the English Language Proficiency Test (ELPT) in lieu of TOEFL. A score of 954 on the ELPT is required of such applicants.

EXCEPTION: Applicants applying for Film and Electronic Arts, which requires a 550 TOEFL score, and Journalism, which requires a 600 TOEFL score, will not be waived from the TOEFL requirement.

For this exemption to remain valid, once having met the exemption, the student must not have left the U.S. for more than two years to reside or study in a country where English is not the predominant language of education and day-to-day societal functions.

Insurance Requirement

Effective August 1, 1995, as a condition of receiving an I-20 or DS-2019 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment in the California State University. Such insurance must be in amounts as specified by the United States Department of State and NAFSA: Association of International Educators. The campus President or designee will determine which insurance policies meet these criteria. Further information may be obtained from the Center for International Education, Breitenbush Hall 201, (562) 985-4106.

Special Consideration

A very limited number of applicants who do not meet regular admission requirements may be considered by the University through an alternate screening process. As part of this review, admission may be offered based on institutional interests, special talents, or special circumstances. The authority to grant special admission is delegated to the Associate Vice President for Enrollment Services based on the recommendations of the appropriate campus committees.

Admission as a Candidate for a Second Baccalaureate Degree

CSULB accepts applicants for a second B.A./B.S. in science, math, engineering, and the Accelerated Nursing/Entry Level MSN program. Candidates for a second baccalaureate degree should apply using the graduate application.

Graduate and Post-Baccalaureate Application Procedures

All graduate and post-baccalaureate applicants (e.g., EdD, joint PhD and EdD applicants, master's degree applicants, those seeking educational credentials, and holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at www.csun.edu. Applicants seeking a second bachelor's degree should submit the graduate application for admission unless specifically requested to do otherwise. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the $55 nonrefundable application fee. Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of www.csun.edu are expected unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available on the World Wide Web at http://www.csun.edu. Application forms may also be obtained from the Graduate Studies Office or the Admissions Office of any California State University campus.

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Graduate and Post-Baccalaureate Admission Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective. Students who meet both the minimum requirements established by the CSU system and the specific professional, preprofessional, academic, and other standards, including qualifying examinations, prescribed by the academic program will be admitted as Classified Post-Baccalaureate or Credential candidates. Applicants may be admitted as Conditionally Classified if, in the opinion of appropriate campus authorities, deficiencies may be remedied by additional preparation. In unusual circumstances, a campus may make exceptions to these criteria.

To meet the minimum requirements for admission to graduate and post-baccalaureate studies at CSULB, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; and (3) have attained an acceptable grade-point average in any of the following ways: (a) hold an advanced degree; (b) hold a baccalaureate degree with a cumulative GPA of at least 2.5 (A = 4.0); (c) hold a baccalaureate degree with a GPA of at least 2.5 in the last 60 semester (90 quarter) units attempted (excluding lower-division and extension course work taken after the degree).

Students in the process of completing a baccalaureate degree may be admitted on a provisional basis, subject to proof of degree completion by the established deadline, if their cumulative GPA is at least 2.7 or if the GPA in their last 60 semester or 90 quarter units are calculated at 2.5 or higher.

For information on the specific requirements for admission to a given program, see the Catalog section for that program. These other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website www.calstate.edu and the CSU admissions portal www.csumentor.edu are good sources of the most up-to-date information.

Graduate and Post-Baccalaureate TOEFL Requirement

All graduate and post-baccalaureate 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 students must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) (applicants taking the Computer-Based Test of English as a Foreign Language must present a score of 213 or above), unless the applicant:

1. Submits proof of having obtained a bachelor's degree from an accredited post-secondary institution where English was the principal language of instruction. CSULB interprets "where English is the principal language of instruction" to mean that a school is located in a country where English is the native language (the daily medium of communication of the majority of residents is English), and the applicant received academic instruction in all subjects (except foreign language courses) at all levels of education in English, or
2. Notification from CSULB's American Language Institute that the applicant has successfully completed levels 5 and 6 of the American Language Institute Program.

EXCEPTION: Applicants applying for Public Policy and Administration, which requires a 600 TOEFL, will not be waived from the TOEFL requirement. Also, for this exemption to remain valid for other students, once having met the exemption, the student must not have left the U.S.A. for more than two years to reside or study in a country where English is not the predominant language of business, education and day-to-day societal functions.

Application to Credential Programs

Students planning to enroll in credential programs must also file an application for admission to the University. Information on application to credential programs is available from the appropriate department or program coordinator.

Note: Some programs have established application periods each year which are separate from the University application periods and process.

Auditors

Persons who have not been accepted by the University for the semester they wish to attend may request permission to audit courses through University College and Extension Services.

Students who have been accepted by the University may audit courses. See the regulation under "Grades and Administrative Symbols." The deadline to declare an "audit" grade option is the end of the third week of instruction. Follow the instructions in the Schedule of Classes for requesting a course as an "audit" grading option. At the end of the semester the instructor will assign an "audit" grade to the official grade sheet which will be forwarded to the Office of Enrollment Services for recording. Courses taken for audit may be repeated in subsequent terms for credit.

Courses successfully audited are listed on the student's academic record but carry no credit or grade points.

Returning and Transfer Students

Returning students must reapply to the university under the same conditions and deadlines as all other applicants.

Students who have not maintained continuous attendance status shall be subject to the General Education requirements in effect at the time of their reentry to the university, with the following exceptions.

Previous CSULB students who were under earlier General Education requirements and who before breaking continuous attendance needed no more than three additional courses to complete the entire General Education requirement shall be allowed to complete the General Education requirement in effect at the time of the previous attendance. However, all students must complete at least 9 units of upper division General Education courses, of which a minimum of 6 units must beCapstone courses.

Previous CSULB students who were under the earlier General Education requirements and who before breaking continuous attendance completed one or more upper division GE courses shall be required to complete additional
Capstone courses as needed to complete the total of 9 upper-division units. At least two of the courses in the overall program must be Capstone courses.

Transfer students who enter CSULB with full GE certification from a California Community College must complete both the Human Diversity in the U.S. and the Global Issues requirements if these requirements were not met through transfer, but these students need not complete any other GE courses except the Capstone, which can be met through transfer from a community college. Transfer students who enter CSULB without full GE certification from a California Community College must complete the CSULB General Education requirements.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the campus Admissions Office regarding specific policies governing hardship admission. (See Admissions Procedures and Policies at the beginning of this Section.)

Adult Students

As an alternative to regular admission criteria, an applicant twenty-five years of age or older may be considered for undergraduate admission as an adult student who meets all the following conditions:
1. Possesses a high school diploma (or has established equivalency through either the General Educational Development or California High School Proficiency Examination).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a "C" 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.

Senior Citizen Education Program

The Senior Citizen Education Program enables eligible California residents 60 years of age or older to enroll as regular students at a cost of $3.00 per semester. The program, which was founded at CSULB, has been in operation since 1975. Individuals are attending courses in a variety of subject areas and class levels from freshman through graduate standing. The Registration Office, students will be sent registration information advising them of the procedures for fee payment and the dates that they may register. Courses are available to program participants approximately three weeks before the beginning of each semester on a "space available" basis. Due to high enrollment and expected program space, some courses may not be available for participation by Senior Citizens. Participants in the Senior Citizen Education Program are required to maintain good academic standing and are subject to all university policies, procedures, late fee payments, and deadlines.

Testing Requirements

The office of Testing and Evaluation Services provides information regarding admissions, placement, and certification examinations. The office is located in Brotman Hall B126. For information, phone (562) 985-4007, FAX (562) 985-2415, or visit the Testing Office website at www.csulb.edu/testing.

Test programs currently offered include the SAT and Achievement Tests, ACT, EPT/ELM, WPE, PRAXIS, and the Nelson-Denny Reading Test. Information packs immediately outside the office offer registration bulletins for the above-mentioned exams as well as the MCAT, LSAT, CSET, CBEST, GRE, RICA, and TOEFL exams. The Testing Office also provides services to faculty, staff, and administrators regarding research design, questionnaire construction and data analysis.

Freshman applicants must submit SAT I and/or ACT scores directly to CSULB. Students should take these tests no later than December of the prior year. Registration forms and the dates for the SAT and/or ACT are available from high school or college counselors or from a CSU campus testing office. Students may also write or call:

<table>
<thead>
<tr>
<th>The College Board (SAT)</th>
<th>ACT Registration Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Unit, Box 6200</td>
<td>P.O. Box 414</td>
</tr>
<tr>
<td>Princeton, NJ 08541-6200</td>
<td>Iowa City, Iowa 52240</td>
</tr>
<tr>
<td>(609) 771-7888</td>
<td>(319) 337-1270</td>
</tr>
<tr>
<td><a href="http://www.collegeboard.org">www.collegeboard.org</a></td>
<td><a href="http://www.act.org">www.act.org</a></td>
</tr>
</tbody>
</table>

Complete information regarding these tests may be found at www.csulb.edu/testing.

Systemwide Placement Test Requirements

The California State University requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they may be a condition of 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. In order to matriculate students admitted to CSULB, they are required to take the placement tests by the published deadlines. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to Testing and Evaluation Services, Brotman Hall (BH) 216 or by calling (562) 985-2007.

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English Placement Test (EPT)

The EPT is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

• A score of "Exempt" on the augmented English CST, i.e., the CSU Early Assessment Program (EAP), taken in grade 11 as part of the California Standards Test.
• A score of 550 or above on the verbal section of the College Board SAT taken April 1995 or later.
• A score of 24 or above on the enhanced ACT English Test taken October 1989 or later.
• A score of 600 or above on the re-centered and adjusted College Board SAT I Writing Test taken May 1998 or later.
• A score of 660 on the writing portion of the SAT Reasoning Test.
• A score of 3, 4, or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Advanced Placement program.
• Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided this course was completed with a grade of "C" or better.

To file for one of the above exemptions, students may obtain an Exemption Form from www.csulb.edu/testing (select EPT from the menu) or call Testing and Evaluation Services (562) 985-4007. Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirement. The materials may be obtained from Testing and Evaluation Services.

Entry-Level Mathematics (ELM) Examination Placement

The ELM examination is designed to assess the skill levels of entering CSU students in the areas of mathematics typically covered in three years of rigorous college preparatory courses in high school (Algebra I, Algebra II, and Geometry). The CSU ELM must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

• A score of "Exempt" on the augmented mathematics California Standards Test, i.e., the CSU Early Assessment Program (EAP), taken in grade 11.
• A score of "conditionally exempt" on the augmented CST, i.e., the CSU Early Assessment Program (EAP) plus successful completion of a Senior-Year Mathematics Experience (SYMIE).
• A score of 550 or above on the mathematics section of the College Board SAT or on the College Board SAT Subject Tests - Mathematics Tests Level I, IIC (Calculator), II, or IIC (Calculator).
• A score of 23 or above on the ACT Mathematics Test.
• A score of 3 or above on the College Board Advanced Placement Calculus examination (AB or BC) or Statistics examination.
• Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement, provided the course was completed with a grade of "C" or better.

To file for one of the above exemptions, students may obtain an Exemption Form from www.csulb.edu/testing (select ELM from the menu) or call Testing and Evaluation Services (562) 985-4007. Information bulletins and registration materials for the ELM will be mailed to all students subject to the requirements. Required exams will be indicated in the Letter of Admission. The materials may also be obtained from Testing and Evaluation Services.

Advanced Placement Credit

California State University, Long Beach grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement (AP) Program of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit for each AP course. Refer to the Advanced Placement Examination Credit table in the Academic Information section of this Catalog.

More specific information is available from the Office of Enrollment Service at (562) 985-5471 or a student's major department.

International Baccalaureate Credit

Students with scores of 5 or higher in International Baccalaureate Higher Level courses will be awarded baccalaureate credit of 4 to 10 units, depending on course equivalency. Applicants to CSULB who wish to obtain lower-division course credit for completed International Baccalaureate Higher Level examinations must submit an official IBO transcript. Course equivalency for Higher Level examinations completed with a grade of 5 or higher is listed in the International Baccalaureate Examination Credit table in the Academic Information section of this Catalog.

For questions or information, please call the Office of Enrollment Service at (562) 985-5471 or consult this department.

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (PL 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 Academic Affairs, (562) 985-4128.
Immunization Requirements

Students enrolled in a California school for the seventh grade or higher on or after July 1, 1999 will have satisfied the requirements for Hepatitis B and for Measles/Rubella. Entering CSULB students who have not satisfied these requirements must comply with the following requirements. These are not admission requirements, but students who do not satisfy them will not be permitted to enroll in the California State University. Failure to comply will result in a "hold" on future registration.

- Measles and Rubella Immunization: All new and readmitted students born after January 1, 1985 must provide proof of full immunization against measles and rubella prior to enrollment.
- Hepatitis B Immunization: All first time enrollees 18 years of age or younger at the start of their first term at CSULB 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.
- Meningococcal Disease Information: Each incoming freshman who will be residing in on-campus housing will be required to return a form to housing indicating that they have received information about meningococcal disease and the availability of the vaccine.

References: CSU Executive Order No. 803 Immunization Requirements / California Assembly Bill 1107.

Measles/Rubella & Hepatitis B clearance is obtained by presenting to Student Health Services 1) a medical immunization record showing dates of shots given, or 2) a record of blood tests showing immunity, or 3) receiving immunization(s), or 4) making a request for medical or personal religious exemption. Students may receive the immunizations from their healthcare provider, HMO, or Public Health Department at low, or no cost. Immunizations may also be obtained at Student Health Services with no charge for Measles and Rubella and at Student Health Services cost for each Hepatitis B injection (series of 3). Acceptable proof may be by records from high school, private health care providers, and local health departments. For more information call (562) 985-4771, or visit the website www.csulb.edu/hs. Other useful vaccine information is available through the United States Centers for Disease Control National Immunization Program www.cdc.gov/nip/publications/ VIS/default.htm.

Student Selection and Denial

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.

Estimated Expenses

Students should be prepared to meet expenses for fees within 30 days of registration. Books should be purchased when classes begin. Other expenses are ongoing and must be anticipated monthly and included in the total cost of attendance. Expenses generally go up an average three to four percent per year. Actual costs depend upon where the student lives and if there are dependent children. Financial aid programs are designed to help students meet standard University-related expenses during the academic year. The following budgets will assist students in planning costs for average expenses: (Costs include University fees, books and supplies, room and board, personal miscellaneous and transportation based on 2007-2008 CSULB budgets.)

Student living at home with parents (nine month term).......................... $11,254
Student living in a residence hall (nine month term).......................... $15,118
Single student living off-campus (apartment, house, nine month term, assumes shared housing)...................... $17,170

Housing

University Residence Halls

The campus residence hall complexes consist of 20 halls and accommodate 2512 residents, including an International House complex, which houses 86 students and Residential Learning College located approximately one mile from campus which houses 550 students. All halls are coeducational and the majority of rooms are intended for double occupancy.

Residents may apply to reside in halls utilizing suite designs or more traditional halls which have double rooms on either side of a long corridor. Halls are available with Regular Quiet Hours or Very Quiet Hours and residents may select various meal plans per week. A limited number of single rooms are available.

Applications for the academic year are generally accepted in March. Housing spaces will be assigned in application order. An initial payment must be paid to retain the priority order of which the student's application was submitted. Any licenses received with payment after the stated deadline will be processed on a first-paid, first-served basis. To apply or for more information, please visit www.housing.csulb.edu.

Off-Campus Housing

An off-campus housing website is available to provide the maximum amount of information on vacant rental properties in the surrounding community while minimizing the time required to do a search. The website features comprehensive rental information including photographs, virtual tours and driving instructions. Searching the database may be refined as needed – for example, by neighborhood or by price range – and is free to students, faculty, and staff. Students also may use the site to list vacant rental property or look for a roommate to share accommodations. The website is provided as a service to CSULB by My Ideal Home Network and may be viewed at www.housing.csulb.edu/offcampus.
FEES AND FINANCIAL AID

Fees

Schedule of Fees 2008-2009

Legal residents of California are not charged tuition. The following reflects applicable systemwide fees and nonresident tuition for the semester system in which CSULB operates.

(Fees are subject to change without notice.)

Students who wish to drop units AND to simultaneously or subsequently add the same number of units to accomplish this exchange may do so without financial penalty in State University Fees, provided this exchange in units meets all other signature requirements. This activity may not occur later than 14 days from the first day of instruction.

All Students

Application Fee (nonrefundable), payable by check or money order at time application is made: $55.00. Those fees are subject to change. Check the current Schedule of Classes for fees each semester.

Undergraduate

State University Fee (per semester)

6.1 units or more..............................................................$1524.00
0 units to 6.0 units.........................................................$885.00

Other Mandatory Activity Fees (per semester)

Facilities Fee.................................................................$3.00
Instructionally Related Activities Fee (IRA).........................$25.00
Associated Students Inc. Fee.............................................$44.00
University Student Union Fee..........................................$50.00
Student ID Card.............................................................$5.00
Student Health Services Fee............................................$45.00

Total Resident Fees Per Semester

0.1 to 6.0 units..................................................................$1057.00
Total Resident Fees Per Semester

6.1 or more units ................................................................$1696.00

Credentialed Program Participants

State University Fee (per semester)

6.1 units or more.............................................................$1770.00
0 units to 6.0 units...........................................................$1026.00

Graduate

State University Fee (per semester)

6.1 units or more.............................................................$1878.00
0 units to 6.0 units...........................................................$1089.00

Other Mandatory Activity Fees (per semester)

Facilities Fee.................................................................$3.00
Instructionally Related Activities Fee (IRA).........................$25.00
Associated Students Inc. Fee.............................................$44.00
University Student Union Fee..........................................$50.00
Student ID Card.............................................................$5.00
Student Health Services Fee............................................$45.00

Total Resident Fees Per Semester

0.1 to 6.0 units..................................................................$1261.00
Total Resident Fees Per Semester

6.1 or more units ................................................................$2050.00

Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Doctoral Programs

State University Fee (per semester)

All students......................................................................$3963.00

Nonresident Students (U.S. and Foreign) Tuition

Non-Resident Tuition is charged to all U.S. non-California residents and Foreign students. Tuition is $339.00 per unit, in addition to applicable State University and Other Mandatory Fees. (Tuition is subject to change by State Legislative action without notice.)

The total nonresident tuition paid per term will be determined by the number of units taken. The maximum nonresident tuition per academic year (as of 2006-07) is $10,170.00 (Fall and Spring terms). Summer term is not part of the regular academic year.

No fees of any kind will be required or collected from those individuals who qualify for such exemption under the provisions of the Alan Pinkett Scholarship Act, AB540, or other applicable legislation.

Optional Fees (per semester)

The following represents rates for the Fall 2008 and Spring 2009 semesters and are subject to change.

Motorcycle and Moped Parking (per semester)....................$30.00
Automobile Parking (per semester)......................................$123.00
Replacement Parking Permit.............................................$23.00
Full Price

Other Fees and Charges (non-refundable)

Late Registration..............................................................$25.00
Application and Reapplication Fee....................................$55.00
Diploma/Commencement Fee............................................$40.00
Missed Deadline Fee........................................................$10.00
Dishonored Check and Echeck Charge.............................$20.00
(If the Dishonored Check was for payment of registration fees, the Late Registration Fee may also apply)

Disputed Credit Card Charge............................................$10.00

Complete transcript of record..........................................$4.00
Replacement of Student ID Card.......................................$5.00
Late Payment Fee............................................................$10.00

REMINDER: Fees are Subject to Change Without Advance Notice. You are responsible for the immediate payment of any approved fee increase. The CSU Trustees are considering an increase in fees.

Parking Fee

Parking at CSULB is limited. Parking permits are required 24 hours a day, Monday through Friday, and the vehicle code is enforced at all times. Please contact the Parking Office (562) 985-4146 for additional information.

To request a partial or full refund, attach all parking documents, permits stickers, decals and gate cards to the refund application and return the Student Finance Office, Brotman Hall 103. Refer to the Schedule of Classes for refund information. If parking documents are not available or have not been received, students MUST contact the

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Parking Administration Office located on Merriam Way adjacent to the parking structure. If any of these parking documents are affixed to the vehicle, their removal by a campus security officer or under the officer’s direction, shall constitute appropriate return. Attach all parking documents, permits stickers, decals and gate cards to the refund application and return to Student Account Services, BH 148. There shall be no refund if such amount is less than $5. There shall be no refund for:
1. Coin operated parking meters.
2. Daily permits for coin operated parking gates.
3. Special events.
4. Fees paid by monthly payroll deductions.

Auditors
Students enrolled as auditors, not for credit, are exempt from payment of the application fee, but must pay fees appropriate to the number of units taken.

Payments
Total fees include the State University Fee, Non-Resident Tuition, other campus mandatory fees as well as course fees. Payment of fees is required 30 calendar days after registration, or approximately 12 days prior to the first day of instruction, whichever is earlier. For payment deadlines, refer to the Schedule of Classes. Payment must be received by the due date or if the student’s registration request may be cancelled; postmarks are not accepted. Students who have not completed their registration before 12 days prior to the first day of instruction, must make payment within 24 hours of their registration.

Students are encouraged to make immediate payment to confirm their enrollment requests as classes fill quickly due to CSULB’s high enrollment. They may also make a payment before registering (i.e. a deposit), if they choose.

Payment can be satisfied by cash, check, Echeck, credit card, Financial Aid deferrals, actual Financial Aid awards, approved payment plans, other approved fee deferments, approved private scholarships, approved tuition waivers, or confirmed third party sponsors. Payments can be made in the following ways:

• Check
  – In person at the Cashiers Windows, Brotman Hall 148
  – Mailed to the Cashiers, Brotman Hall 148, CSULB, 1250 Bellflower Blvd., Long Beach, CA 90840-0103

• Cash
  – In person only at the Cashiers Window, Brotman Hall 148

• ECheck (self service over the web at http://my.csulb.edu)

• Credit Card
  Payment of student fees can be made by credit card
  (Discover, American Express, or MASTERCARD - VISA not accepted - Only at:
  - Self Service/SmartPay – over the web at http://my.csulb.edu (Smart Pay charges a 2.9% convenience fee)
  - Self Service over the web at http://my.csulb.edu
  Payment of fees CANNOT be made if disputed credit card charges exist on your account.

Contact Student Account Services for further information.

Short Term Loans
A limited number of short term loans to assist in paying for registration fees, books, or authorized emergencies are available to qualified students on a first come, first served basis. Information about this program is available at Brotman Hall 148, Cashiers Windows. Recorded information is available by calling (562) 985-4167.

Installment Payment Plan
The Installment Payment Plan is available to all eligible students except financial aid recipients who have sufficient funds to cover the State University Fee. A $33 non-refundable charge is assessed to defer the administrative costs of the program. A 9% service charge is assessed to the deferred balance for non-resident tuition and International Visa students. An Installment Plan Contract must be obtained from Brotman Hall 148, Cashiers Windows before submitting payment.

Refund of Mandatory Fees, Including Nonresidence Tuition
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 fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-supported programs at the California State University (courses offered through extended education) are governed by a separate policy established by the university.

In order to receive a full refund of mandatory fees, including nonresidence tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for cancelling registration 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 semesters, quarters, and 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 tuition and mandatory fees were assessed or collected in error;
• The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
• The university makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
• The student was activated for compulsory military service.

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Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from the Student Account Services Office.

Refunds of Registration and Tuition Fees

Details regarding Registration and Tuition Fees Refunds may be found in the Schedule of Classes. As this information may differ from one semester to another, students are advised to refer to the Schedule of Classes for the particular semester. Students must complete the class drop or withdrawal process prior to becoming eligible for a refund. The amount to be refunded is determined by the effective withdrawal or drop date. In addition, any other outstanding financial obligations that the student may have incurred will be deducted from any credits due to the student before a refund is processed. Refund deadlines are reflected in the Schedule of Classes. A $10.00 processing fee will be withheld from the refunds.

Details regarding refunds due to Medical Withdrawals can be found in the Schedule of Classes.

Further details regarding fees that may be refunded and the circumstances under which they may be refunded may be obtained by consulting the California Code of Regulations, Title V, in the following sections:
- Registration and Tuition Fees — Section 41602
- Parking Fees — Section 42201
- Housing Fees — Section 42010
- The following fees are non-refundable: Late Fees, Application Fees, Disputed Credit Card Fees, Dishonored Check Fees, Student I.D. Card Replacement Fees, Late Payment Fees.

Special Circumstances Refunds

There are two levels of financial appeals. They are as follows:
1. Request for Refunds After Published Deadlines:
   - Students who withdraw or drop in units after the deadlines detailed in the Schedule of Classes have passed, may appeal for a Special Circumstances Refund based on the following:
     A. Campus Variation
     B. Compulsory Military Service
     C. Death of Student
     D. Fees Collected in Error
   - Further information regarding Special Circumstances Refunds by calling the Student Account Services Office at (562) 985-4167.
   - If a student wishes to petition the decision made at the first appeal level, a written request must be submitted to the F.A.I.R. Committee (BH 155) for review.

   This Committee has been approved by the President as the final financial appeal level. It consists of representatives from various University Offices. F.A.I.R. will only review appeals for the current academic year.

Determination of Residence for Nonresident Tuition Purposes

University requirements for establishing residency are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residence Requirements. These laws governing residence for tuition purposes at the California State University 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 California State University's website at www.calstate.edu/SC/ resources.shtml. Those regulations were promulgated to determine whether a student is a resident or nonresident of California, but neither to determine whether a student should pay University fees on an in-state or out-of-state basis.

Each campus’s Admissions Office is responsible for determining the residence status of all new and returning students based on the Application for Admission, Residency Questionnaire, Classification 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 residence for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the resident determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with the intent to remain in California indefinitely may establish California residence for tuition purposes. A minor normally derives residence from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but 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 memberships in California professional or social organizations, and maintaining a permanent mailing address and home of record in California.

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.

Noncitizens establish residence 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 residence requirements are contained in California Education Code sections 68070-68084 and California Code of Regulations, Title
5. Subchapter 5, Article 4, sections 4900-4906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three years of high school in California and graduated or attained the equivalent. Whether an exception applies to a particular student cannot be determined before the submission of an application for admission and, as necessary, additional support 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.

The campus Office of Enrollment Services is responsible for determining the residence status of all new and returning students for nonresident tuition purposes. Responses to the Application for Admission, Residency Questionnaire, and Reclassification Request Form, and, as necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence for tuition purposes at the California State University is found in California Education Code, sections 68000-68090, 68120-68134, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on the Internet by accessing the California State University’s website at www.csueastern.edu/GC/resources.shtml.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residence intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy of an apartment on a lease basis, where one’s permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator’s license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within 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 (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. An alien may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. An unmarried minor alien derives his or her residence from the parent with whom the minor maintains or last maintained his or her place of abode.

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 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. The residence determination dates are: Fall – September 20; Spring – January 25; Summer – June 1.

There are exceptions from nonresident tuition including:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues until the student has resided in the state the minimum time necessary to become a resident;

2. Minors who have been present in California with the intent of acquiring residence for more than a year before the residence determination date, and entirely self-supporting for that period of time. The exception continues until the student has resided in the state the minimum time necessary to become a resident;

3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult or adults, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year. The exception continues until the student has resided in the state the minimum time necessary to become a resident;

4. Dependent children and spouse of persons in active military service stationed in California on the residence determination date. Graduate students are eligible for this exception for one academic year of continuous enrollment, the length of time necessary to establish California residency. There is no time limitation on this exception unless the military person transfers out of California or retires from military service. If either of these events happen, the student’s eligibility for this exception continues until he or she resides in the state the minimum time necessary to become a resident;

5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. The exception is available to the graduate student military member for more than one academic year of continuous enrollment, the length of time necessary to establish California residency. The undergraduate student military member is eligible for this exception for as long as he or she is stationed in California as an active member of the military;

6. Military personnel in active service in California for more than one year immediately prior to being discharged from the military. Eligibility for this exception runs from the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.

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Dependent children of a parent who has been a California resident for the most recent year. This exception continues until the student has resided in the state for the minimum time required to become a resident.

Graduates of any school located in California that is accredited by the United States Bureau of Indian Affairs, including but not limited to, the Sherman Indian High School. The exception continues for as long as continuing attendance is maintained by the student at an institution.

Certain credentialed, full-time employees of California school districts.

Full-time State University employees and their children and spouses; State employees assigned to work outside the State and their children and spouses. This exception continues until the student has resided in the state for the minimum time necessary to become a California resident.

Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the line of duty.

Certain amateur student athletes in training at the United States Olympic Training Center in Chula Vista, California. This exception continues until the student has resided in the state for the minimum time necessary to become a resident.

Federal civil service employees and their natural or adopted dependent children if the employee has moved to California as a result of a federal job relocation. This exception continues until the student has resided in the state for the minimum time necessary to become a resident.

State government legislative or executive fellowship program enrollees. The student ceases to be eligible for this exception when he or she is no longer enrolled in the qualifying fellowship.

Persons who have attended a California high school for at least three years and have graduated from a California high school or equivalent. (Please Note: Those who hold non-immigrant visas (i.e., F, J, B, H, etc.) are not eligible for this exception. Those seeking this exception must fill out the Student Affidavit for Exemption of Nonresident Tuition form, which is available at www.csulb.edu/enrollment. Once this exception is approved, it is not necessary to reapply each semester. This is the only exception for which this is true.

Students classified as non-residents may appeal a final campus decision within 120 days of notification by the Office of General Counsel, 401 Golden Shore, 4th Floor, Long Beach, California 90802-4210. The Office of General Counsel can either hear 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, and nonresident students qualifying for exceptions whose basis for qualifying changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant resident determination date.

Changes in residency for tuition purposes are not automatic. Students wishing to apply for resident reclassification must submit a Residency Reclassification Request Form and supporting documentation. The filing period for a spring term is from October 1 through November 1; the filing period for a fall or summer term is from March 1 through April 1. A late filing fee must accompany requests filed after the last day of the filing period. Under no circumstances will a reclassification request be accepted for a term that has ended.

Exceptions from nonresident tuition are valid for one semester only. Students must reapply for an exemption each semester. Forms are located at the Office of Enrollment Services, BH 101.

Financial Obligations and Holds

University offices, including but not limited to the Library, may request that a student reimburse the University for an item that was not returned, returned late or damaged; or they may impose other charges. The requesting office may ask the Student Account Services Office to post this charge to the student's account. Once posted, it becomes an obligation to the student. Student Account Services will be able to provide general information concerning obligations. The student will be directed to the appropriate department in which to inquire about the obligation. Until all obligations are paid, or a written release from the originating office is received by the Student Account Services Office, a financial hold will be placed on academic records and the student is restricted from receiving University services, including but not limited to registration, grades, and transcripts. If the obligation continues to appear on the University reports, the student's name will be submitted to the Franchise Tax Board. In this case, the student or former student, permanently loses the privilege of submitting checks as payment for fees or services. (Acceptable methods of payment are cash, cashier's check or money order.) The State then has the authority to withhold amounts owed to the University from any tax refund to which the student may be entitled.


For information regarding the amount due – Student Account Services, BH 148 or call Student Account Services at (562) 985-4167.
Dishonored Checks / EChecks

Students paying fees by personal check or eCheck are hereby given notice that if the unpaid check is returned dishonored to the UNIVERSITY FOR ANY REASON, a $20.00 fee is charged to the student's account. The University has no control whether the bank sends checks through a second time for clearing. The check should be honored upon first presentation to the bank.

In compliance with California Code of Regulations, Title V, Section 42381, students with dishonored checks may be disenrolled from classes and may be required to reapply for admission to the University. Also, future services including, but not limited to, transcripts, grades, and future registration may be withheld.

Dishonored checks are monitored in the student's record. Any student with a record of two (2) dishonored checks or EChecks will lose check writing privileges with the University and future payments by personal check will not be accepted.

Disputed Credit Card Charge

Students are strongly encouraged to contact the Student Account Services (BH 148) or call Student Account Services at (662) 985-4167, before disputing a credit card charge through the bank. Upon receipt of a disputed credit card charge, the amount of the credit card charge plus a $10.00 fee becomes the STUDENT'S financial obligation to the University. Payment of Registration fees with a credit card charge which has later been disputed may result in disenrollment and in withholding of future University services including, but not limited to, transcripts, grades, and future registration (California Code of Regulations, Title V, Section 42381). Students who are disenrolled may be required to reapply for admission to the University.

Fees and Debts Owed to the Institution

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, use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise, or any combination of the above from any person owing a debt until the debt is paid (see Title 5, California Code of Regulations, Sections 42390 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course. Fees are pro-rated based on the date of drop or withdrawal. Refer to the current Schedule of Classes for more information.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the Student Account Services Office. The Student Account Services Office, or another office on campus to which the Student Account Services 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.

Financial Assistance Information

There are a variety of financial aid programs to assist students and families with meeting expenses. The following information concerning student financial assistance may be obtained from Financial Aid, BH 101, (662) 985-8403:

1. A description of the federal, state, institutional, and private student financial assistance programs available to students who enroll at CSULB;
2. For each aid program, a description of procedures and forms by which students apply for assistance, eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
3. A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and the criteria for continued student eligibility under each program;
4. The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
7. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
8. The responsibility of CSULB for providing and collecting exit counseling information for all student borrowers under the federal student loan programs; and
9. The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service.

Information concerning the cost of attending California State University, Long Beach is available from the Office of Financial Aid, BH 101, (662) 985-8403, and includes fees and tuition (where applicable), the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of California State University, Long Beach for the return of unearned tuition and fees or other refundable portions of institutional charges is available from the Controller, BH 385.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulations is available from the Office of Financial Aid, BH 101, (662) 985-8403.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSULB dedicates to its men's and women's teams may be obtained from Cindy Masner, Sports Athletics and Recreation, 562-985-8527.

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Information concerning teacher preparation programs at CSULB, including the pass rate on teacher certification examinations, may be obtained from either Elementary/Special Education Admission Advising, ED 154, (562) 985-9250, Elementary Education: www.csulb.edu/depts/elementary, Special Education: www.csulb.edu/depts/colleges/special-education, or Single Subject Office, ED 1 53, (562) 985-7633, www.csulb.edu/depts/singlesub.

The Office of Financial Aid at CSULB provides both financial and advisory assistance to enable students to pursue a quality education despite increasing costs. It administers funds made available by the federal and state governments, CSU and by private sources that are awarded to students who demonstrate a need to cover educational expenses.

Due to limited funding, deadlines are critical. Students financial aid files must be complete before financial need can be determined. Students must file a Free Application for Federal Student Aid (FAFSA) between January 1 and March 2 for priority status.

Financial Aid Application

To apply for financial aid from CSULB, students must file the Free Application for Federal Student Aid (FAFSA). The FAFSA is a multi-purpose form that is also required to apply for California Grants from the California Student Aid Commission (CSAC) and for Pell Grant funds from the federal government. The FAFSA must be mailed to a nationally designated processor. The FAFSA should be completed online at www.fafsa.ed.gov. Students unable to complete the FAFSA on the Web may call 800-FED-AID and request a paper application or may download a copy at http://fisa.ed.gov/fafsa/fafsa_options.html. To ensure CSULB receives the FAFSA data, list CSULB and the Title IV School Code 001130 on the college release section. New applicants for Cal Grants (including entering freshmen) must submit a GPA Verification Form in addition to the FAFSA by the March 2 deadline. GPA Verification Forms are available from high school counselors or any any California College Financial Aid Office.

Detailed information about CSULB financial aid programs is available in the Office of Financial Aid, BH 101, (562) 985-8403. The submission of various supportive documents may be required. Those may include the following: (1) verification of all taxable and nontaxable income reported on the FAFSA; and (2) other clarifying information requested by the Office of Financial Aid. Upon receipt of all documentation, the applicant’s file is examined to determine eligibility for financial aid. A student is automatically considered for all programs for which he/she qualifies at the University by submitting the FAFSA, and appropriate supporting documents. All loan, grant and work-study programs are available for the academic year.

Students expecting to receive a financial aid refund are required to provide bank account information to CSULB in order to facilitate electronic refunds to students (eRefund).

Financial Aid Eligibility

To determine financial aid eligibility, a standard needs analysis system is used. This system allows the Office of Financial Aid to analyze family financial strength and ability to contribute toward the cost of attending CSULB.

Subtracted from the student’s educational expenses to arrive at financial need are: the parental contribution, the applicant’s (and spouse’s) contribution from employment, savings, a portion of assets and other resources. As long as program funds permit, a “package” consisting of various types of funds (grants, loans, work-study) is awarded to meet full need.

Although enrollment is assumed to be full-time, part-time students are eligible to receive aid if they carry a minimum of six undergraduate units, or 5 graduate level units.

Notification of Awards

Upon determination of eligibility, new students are sent notice of a financial aid offer. Students are also notified if determined to be ineligible.

It is the goal of CSULB to package aid that fully meets the need of all qualified aid applicants. However, in the event that funds are insufficient, priority will be given to students whose financial aid files meet the first priority deadlines and who demonstrate the highest need.

Academic Responsibilities

Aid recipients must:

1. be in good academic standing;
2. make satisfactory academic progress toward a degree by earning credit for units attempted each semester; and
3. remain within the maximum time frame for the degree program in which the student is enrolled.

Aid eligibility is governed by the number of units attempted and successfully completed with a passing grade ("D" or better). Students who do not satisfactorily complete enough of their attempted units may be placed on financial aid probation or disqualified from receiving aid.

Most aid recipients enroll in a full-time program of study carrying 12 undergraduate units or 9 graduate level units (500-level courses or higher) per semester. To be considered an eligible financial aid applicant, students cannot have attempted more academic units than an established unit limit. At CSULB, the established unit limit is 150% of the published length of an academic program measured in units. The unit limit includes all attempted units. This includes units attempted as a recipient of financial aid as well as units attempted while not receiving aid. It also includes transfer units for those students who have attended colleges elsewhere, and any units of remedial coursework.

For complete information on CSULB’s satisfactory progress policy, go to their web site at www.csulb.edu/ depts/enrollment/financial_aid/sap_policy.html.

Financial Responsibilities

If you are determined ineligible for financial aid, you are responsible for the payment of any University obligations you may have, including fees.

Students who are receiving financial aid funds and completely withdraw from all of their classes, may have to repay all or part of the award they received. Students should check with the financial aid office to find out if they will owe a repayment, before withdrawing from all of their classes.
Campus Financial Aid Programs

Federal Perkins Loans
The Federal Perkins Loan is a federal program providing long-term, low interest loans to both graduate and undergraduate students. Repayment of loan principal and interest begins nine months after you cease to be enrolled at half-time.

Federal Supplemental Educational Opportunity Grant (SEOG)
The SEOG is a federally funded grant program for undergraduate students with exceptional financial need.

Federal Work-Study (FWS)
The work-study program is a federally funded employment program to expand part-time job opportunities for students with financial need. Students are placed in jobs according to their skills, career and academic goals and must see the Office of Financial Aid for job referral. Positions are available on campus or with organizations off campus.

Educational Opportunity Program Grants
EOP grants are provided by the State of California for undergraduate students admitted to one of the California State University campuses under the Educational Opportunity Program. Eligibility is determined by the same need criteria as federal financial aid programs. Students also receive special academic counseling and tutorial assistance when needed. Further information may be obtained by contacting the Educational Opportunity Program Office on campus.

State University Grant
The State University Grant is funded by the State of California to assist students whose ability to attend postsecondary institutions is jeopardized by increases in student fees. Students must be residents of California, demonstrate financial need, and be assessed State University Fees to be eligible for this award.

Graduate Research Fellowships
The Graduate Research Fellowship is funded by the California State University to graduate students who have experienced educational or economic disadvantages or hardships. Applicants must be California residents, demonstrate financial need and be accepted into or continuing in a full-time graduate program. Limited awards are made through a competitive process.

University Scholarships
The Office of Financial Aid administers a limited number of small scholarships funded by CSULB. Other scholarships are funded by private donors, businesses, corporations, agencies, religious groups, and fraternal and civic organizations. Most scholarships are not based solely on financial need. They may be awarded on the basis of academic achievement, leadership, merit, motivation, and talent. Some scholarships are administered directly by the academic department for specific academic majors. Students may consult with their academic department or the Office of Financial Aid regarding scholarships available.

President's Scholars Program — Four Years
High school valedictorians may be eligible. Includes registration fees, housing, and book allowance — up to approximately $35,000 for four years.

National Merit Scholarship Finalists and semi-finalists may also be eligible. Includes registration fees, housing, food, and book allowance — up to approximately $43,000 for four years.

Applications are available from your high school counselor. For more information contact Valerie Bourgeois in the CSULB Office of University Outreach and School Relations at (562) 985-6356.

Outside Student Aid Programs
The following programs are administered by other agencies and coordinated by the Office of Financial Aid:

Cal Grant A
Cal Grant A is awarded by the California Student Aid Commission to entering and continuing undergraduate students who are California residents. Cal Grant A awards are based on academic achievement and financial need. Grants are used to offset State University Fees.

Cal Grant B
Cal Grant B is awarded by the California Student Aid Commission to entering undergraduate students who have not completed more than one semester of college. Applicants must be California residents, and must demonstrate substantial financial need. Grants vary depending on educational costs. Fees, in addition to the basic award, are normally provided in the second, third, and fourth years. The grant is renewable for four years.

Federal Pell Grant Program
The Pell Grant Program is a federal aid program designed to provide financial assistance to undergraduate students who demonstrate financial need under the guidelines of the program. Teacher credential students in an eligible program may also qualify. Once a student is determined eligible for the Pell Grant, the amount of the award is based on the cost of education at the school attended and enrollment on a half-time, three-quarter-time, or full-time basis. Eligibility is limited to U.S. citizens and eligible non-citizens.

Federal Stafford Loan
The Stafford Loan Program enables eligible students to obtain loans through banks, credit unions, and other lending institutions outside of the University. During the time the student is enrolled at least half-time, the federal government pays the interest on the cumulative amount borrowed if the loan is based on financial need (subsidized). An unsubsidized Federal Stafford Loan is not based on financial need. Once funds are disbursed, the student is responsible for interest due on the loan while in school. The Parent PLUS Loan is available to parents of dependent undergraduate students. The parent's credit history is a determining factor for participation in this program.

Information, brochures, advising, and application forms are available from BH 101, or phone (562) 985-8403.

Federal regulations allow any student to apply for the Federal Stafford Loan providing the student: 1) is enrolled
and in good standing or has been accepted for enrollment at an eligible school; 2) is enrolled at least as a half-time student; 3) is a citizen of the United States or an eligible non-citizen. Local lender policy is available from the Office of Financial Aid; 4) is registered with Selective Service (if required); 5) is working toward a degree or certificate; 6) is making satisfactory academic progress; and 7) does not owe a refund on a federal grant and is not in default on a federal education loan.

Fee Waivers

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

Section 66120 - 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 Allen Pattee Scholarships);

Section 66253.3 - Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who 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; and

Section 66412 - 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 66432.7 for the Cal Grant A Program or other 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 Admissions/Registrar's Office for further information and an eligibility determination.

Bureau of Indian Affairs (BIA) Grants

Students who are at least one-fourth American Indian, Eskimo, or Aleut may apply for a BIA grant. The amount of the grant depends upon financial need and availability of funds. Students must complete an application for financial aid and then contact their tribe or tribal agency for an application.

Federal/State Regulations

The information contained in this publication accurately reflects regulations and policies at the time of printing. Be aware that Federal and State regulations governing financial aid processing and eligibility are subject to change at any time.

Other Types of Financial Assistance

Cooperative Education (Co-Op)

The Cooperative Education Office places students in career or academic related positions with corporations, businesses, agencies and institutions. Students are paid at normal entry-level wages. Minimum periods of employment for full-time Cooperative Education placements are one semester. For part-time placements, a minimum of 20 hours is required. Summer internships are also available. Contact the Experiential Learning Center, BH 250.

Student Part-Time Employment

Listings are available and assistance is offered in the Career Development Center to students interested in part-time employment. On-campus and off-campus positions are available.

Teaching Assistantships and Graduate Assistantships

Many CSULB departments have Teaching Associate (TA) and/or Graduate Assistant (GA) positions available for qualified graduate students. Students should check in department offices or on the campus website for more information.

Center for Scholarship Information

The Center for Scholarship Information, under the Dean of Students Office, is the campus resource for scholarships at CSULB providing students with access to a database of on- and off-campus scholarship opportunities. Scholarships can be an additional financial resource for students and may be awarded to qualified students based upon academic achievement, leadership, financial need or a specific area of study and/or ability. At the Center, students receive guidance on the entire scholarship process including support on applications, personal statements and essays.

For more information contact the Coordinator of University Scholarships at (562) 985-2549.

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<td>Academic Advising Center</td>
<td>Horn Center Room 103</td>
<td><a href="http://www.csulb.edu/advising">www.csulb.edu/advising</a></td>
<td>(562) 985-4837</td>
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<td>Academic Records</td>
<td>BH-101</td>
<td><a href="http://www.csulb.edu/depts/enrollment">www.csulb.edu/depts/enrollment</a></td>
<td>(562) 985-5471</td>
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<td>Academic Senate</td>
<td>AS-112</td>
<td><a href="http://www.csulb.edu/senate">www.csulb.edu/senate</a></td>
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<td>FO4-274</td>
<td><a href="http://www.csulb.edu/african">www.csulb.edu/african</a></td>
<td>(562) 985-4502</td>
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<td>Alcohol, Tobacco &amp; Other Drugs Program (ATOD)</td>
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<td>(562) 985-2520</td>
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<td>Alumni Office</td>
<td>USU-112</td>
<td><a href="http://www.csulb.edu/alumni/alumni/index.html">www.csulb.edu/alumni/alumni/index.html</a></td>
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<td>American Indian Student Services</td>
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<td>Arts (Public Performances and Exhibitions)</td>
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<td><a href="http://ota.csulb.edu">http://ota.csulb.edu</a></td>
<td>(562) 985-4364</td>
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<td>Asian Pacific Student Resource Center</td>
<td>FO4-277</td>
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<td>Associated Students, Inc.</td>
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<td>Athletic Events and Tickets</td>
<td>Pyramid Box Office</td>
<td><a href="http://www.longbeachstate.com">www.longbeachstate.com</a></td>
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<td>BeachBoard E-learning Environment</td>
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<td>Child Development Center, Isabel Patterson</td>
<td>5700 Atherton Drive, Long Beach, CA 90815</td>
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<td>Foundation Office</td>
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<td>Fraternities/Sororities</td>
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<td>Interfaith Center</td>
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<td>International Internet Admissions</td>
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<td>KKJZ-FM 88 Public Radio</td>
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<td>Multicultural Center</td>
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<td>Ombuds Office</td>
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<td>Parking Office</td>
<td>see website</td>
<td><a href="http://caf.csub.edu/offices/pplfm/parking">http://caf.csub.edu/offices/pplfm/parking</a></td>
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<td>Partners for Success (Faculty Mentoring Students Program)</td>
<td>USU-209</td>
<td><a href="http://www.csub.edu/usupartners">www.csub.edu/usupartners</a></td>
<td>(562) 965-7562</td>
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<td>President's Scholars Center</td>
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<td>(562) 965-8236</td>
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<td><a href="http://www.csub.edu/soar">www.csub.edu/soar</a></td>
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<td>(562) 965-5115</td>
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<td>Women's Resource Center</td>
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<td>(562) 965-4329</td>
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Orientation and Advising

See the section on Academic Information and Regulations for information on registration procedures. Detailed information on procedures and deadlines is given in the Schedule of Classes.

Undergraduate students new to the University will receive information about Student Orientation, Advising, and Registration (SOAR), described below. Now undergraduate students register for classes at the time they attend SOAR.

Student Orientation, Advising, and Registration (SOAR)

Overview of SOAR

Student Orientation, Advising, and Registration (SOAR) is the University-sponsored new student advising and orientation program that newly-admitted freshman and transfer students are required to attend. SOAR offers them an opportunity to get to know the campus, learn about opportunities to enhance their college experience and successfully navigate through their first semester at CSULB. SOAR offers opportunities to enhance their college experience and successfully navigate through their first semester at CSULB. SOAR offers admitted students the chance to attend workshops that introduces University policies, procedures and requirements.

They also present information on general education and major requirements, and assist SOAR students with the selection of classes and registration process. Registered SOAR students receive a one-day parking permit, lunch, CSULB Student Planner, and CSULB e-mail account, in addition to CSULB publications, announcements and vouchers. SOAR workshops take place in January for spring admits and throughout the summer months for fall admits. Information about SOAR is mailed to newly-admitted students as part of the CSULB Welcome Kit and may also be obtained by visiting the SOAR Web site at www.csulb.edu/saor.

Students may register for SOAR via MyCSULB once they are admitted and have submitted their CSULB Enrollment Deposit. There is a fee associated with this new student orientation program. SOAR, which is housed under Student Transition and Retention Services, is located in Foundation Building, Suite 160. More information, contact SOAR at (562) 985-5515, saor@csulb.edu, or www.csulb.edu/saor.

SOAR Transfer Workshops

Each of the University's seven colleges work collaboratively with SOAR to sponsor college-specific transfer workshops (information about College & Majors can be found on the SOAR Web site). Most transfer students will participate in a college-specific workshop where they will meet with faculty advisors from their declared major department and receive assistance with class selection. During SOAR, transfer students also receive information on department-sponsored support resources, scholarships, internships/field work, and off-campus requirements.

SOAR Freshman Workshops

Freshmen can attend a One-Day Workshop or a Two-Day, Overnight Program. One-Day Workshops jump right into the essential components of SOAR - a campus tour, academic assessment, and assistance with class selection and registration. Two-day, overnight programs, which are offered only during the summer, enable freshmen to experience the residence halls and establish new friendships with other incoming freshmen. During the first day of this workshop, educational and social activities introduce freshmen to college lifetimers and the CSULB campus. The second day is dedicated to academic advising, class selection, and assistance with the registration process.

New CSULB freshmen enroll into classes determined by required entrance exams including the SAT and ACT, in addition to results of the Advanced Placement (AP) and Early Assessment Program (EAP) tests. Unless exempt based on standardized tests (EAP, SAT, ACT, IB and/or AP) or completed college credit, freshmen are REQUIRED to complete the English Placement Test (EPT) and/or Entry-Level Math (ELM) exams prior to attending SOAR. With the assistance of SOAR advisors, freshmen construct a well-balanced schedule that fulfills CSULB requirements such as Foundation, Math and/or English Review (if applicable), major, and elective classes. Advisors also take into account off-campus responsibilities, including employment, co-curricular activities, commuting, and other family obligations. At the end of each freshman workshop, students meet with a professional advisor to review the final schedule and answer any questions about making a successful start at CSULB.

Student Transition and Retention Services (STARS)

A range of programs, services and opportunities are offered to new and continuing students through Student Transition and Retention Services (STARS). STARS oversees Student Orientation, Advising and Registration (SOAR), which is the university-required, new student orientation program. It is also responsible for continuing orientation, retention programming and leadership development opportunities such as Life Guard Stations, Student Services Festival, Majors Fair, and Operation: Return to The Beach.

STARS is located in Foundation Building, Suite 160 and can be contacted at (562) 985-5515, saor@csulb.edu, or www.csulb.edu/saor.

Parent Orientation Program (POP)

The Parent Orientation Program (POP) is designed to inform parents about baccalaureate requirements, the University library, safety, financial aid, housing, and other important University issues so they may better assist their children to be successful at CSULB. Sessions occur in conjunction with SOAR each summer. POP is presented by the Academic Advising Center. For more information, call (562) 985-5458.
Advisement Centers on Campus

CSULB is committed to student success. University undergraduate academic advising services and academic departments are responsible for providing academic direction for new and continuing students. In addition, academic departments provide academic advising for graduate students.

Undergraduate advisors, both in advising service offices and in academic departments, assist students to develop educational plans that are compatible with students' interests, academic preparation, and educational and career goals. While advising offices mainly provide information and advise about general education, academic departments advise students about their major requirements and other important academic issues.

Lists of faculty advisors, their locations and phone numbers appear each semester in the Schedule of Classes. Faculty advisors also provide academic advisement and information about minors, certificates, internships, and masters programs. Students are advised to check with advisors for current and relevant information.

The following listings are of advising services that provide general advising for students. Some are for students in special programs. All are eager to assist students.

University Center for Undergraduate Advising

The University Center for Undergraduate Advising (formerly the Academic Advising Center) is located in the Horn Center, Room 103. For hours and appointments, call (562) 985-4837. Visit www.csulb.edu/uac for information.

The Center provides services to the general University undergraduate student population including both traditional and non-traditional students.

The Center provides one-on-one advisement year round for incoming, continuing and transfer students, workshops for transfer, adult reentry and graduating senior students; academic information for prospective CSULB students; total academic program planning for entering and continuing students; unofficial Degree Audits for continuing students; General Education advising for continuing and returning students; information, advisement and special evaluation services to adult reentry students; mandatory freshman workshops for second- and third-semester class registration; assistance and information with and for the academic appeals process; academic probation/ disqualification intervention services to high-risk students (in the “Strategies for Academic Success” program and in one-on-one sessions); and special advisement services to undeclared and pre-majors.

Learning Alliance

The Learning Alliance is located in LA 202. For information contact the Learning Alliance at (562) 985-7604, visit www.csulb.edu/colleges/cla/alliance, or e-mail Alliance@csulb.edu.

The CSULB Learning Alliance is an academic program for students who seek an active, personalized college experience. It is designed to help first-time freshmen make a positive academic and social transition to CSULB. This academic learning community offers students a chance to take classes together, learn from challenging instructors and establish closer ties to CSULB through campus involvement. Students qualify for the program based upon English test scores (SAT, ACT, AP, and/or EPT) and their desire to become part of a community that enables them to make well-informed choices about majors and career/life goals. Each fall, the Learning Alliance accepts approximately 200 first-time freshmen to the program, which is open to all majors both declared and undeclared. During their first year, students enroll in two connected general education classes in the fall and spring where faculty members work together to integrate course subject matter. During each semester of the sophomore year, students maintain their involvement with the program through Community Involvement as well as an option for a leadership course. As a result of their in-class connections, students have opportunities to make new friends and form study groups.

Alliance juniors and seniors continue their association with the program by accessing resources that prepare them for graduation and life after college.

Specific benefits for Learning Alliance students include personalized academic advisement, guaranteed general education courses, support from professional staff members, courses with student-centered professors, opportunities for campus involvement, and access to the Alliance student lounge and computer lab.

Applications are accepted on a first-come, first-served basis.

Educational Equity Services

Educational Equity Services is located in Liberal Arts (LA) 1-119. The telephone number is (562) 985-5637. Students are seen by appointment. Educational Equity Services has two advising components:

Educational Opportunity Program (EOP)

The Educational Opportunity Program (EOP) is a state funded program that has developed special services to help students overcome the obstacles that may prevent them from furthering their education and reaching their potential. Students who are interested in being considered for EOP must declare their intentions on the University application at the time they apply to the University. Visit www.csulb.edu/eop for information.

The Student Support Services Program (SSSP)

The Student Support Services Program (SSSP) is a federally funded program designed to assist students in achieving their maximum potential in higher education. Students are referred to SSSP by faculty, staff, and students of CSULB. Interested students apply directly to the program for participation. In addition to an academic need, one of the following must apply for a student to be eligible for SSSP services: low income and first generation college students; physically disabled and/or learning disabled; low income only; first generation only.

Students should check with SSSP regarding their eligibility for program participation.

Services provided to program participants include financial aid assistance; orientation to college—helping students adjust to the college environment; academic advising—guidance with graduation requirements, major and course selection; individual counseling; peer advising; tutorial and supplemental instruction assistance covering a wide range of courses; career counseling; probation intervention; Writing Proficiency Examination workshops; and graduate placement information.

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Global Learning Options for a Broader Education (GLOBE)

The GLOBE Program is located in Brozman Hall, Room 201. Call (562) 985-5585 for information or visit www.csulb.edu/visitorinfo/aac/globe.

The GLOBE Program is an academic program for first-time freshmen who are interested in international issues and who wish to have at least one study abroad experience during their undergraduate career at CSULB. This small learning community enrolls approximately fifty new freshmen students each fall and offers an integrated curriculum of foundation and content area courses focused on global themes. The curriculum includes written communication, oral communication, critical thinking, literature, the arts, and social sciences. Students are recruited at SOAR each summer based on interest. Students receive paired courses for the first year, academic advising throughout their undergraduate career, assistance in selecting a major, and study abroad advising.

College of Health and Human Services Academic Advising and Resource Center (AARC)

Located in the Human Services and Design (H&SD) building, suite 117, the CHHS Academic Advising and Resource Center (AARC) provides comprehensive advising for all CHHS discipline majors. For information and appointments students are encouraged to call 562-985-2651 and/or visit www.csulb.edu/colleges/chihs, or e-mail chhsaarc@csulb.edu. Students who are currently enrolled, returning to the university, or considering enrolling at CSULB are welcome to make individual appointments and/or attend small group workshops. AARC advisors are able to provide the following services: comprehensive academic planning; schedule planning; transfer assistance; degree substitutions and waivers; assistance with academic probation, disqualification, and academic appeals; degree audits; and graduation checks. CHHS disciplines covered at the center include: Athletic Training, Child Development and Family Studies, Communicative Disorders, Consumer Affairs, Exercise Science, Family and Consumer Sciences, Fashion Merchandising and Design, Fitness, Food Science, Health Care Administration, Health Science, Hospitality Foodservice and Hotel Management, Kinesiology, Kinesiotherapy, Nursing, Nutrition and Dietetics, Occupational Studies, Radiation Therapy, Recreation and Leisure Studies, Social Work, Sport Psychology and Coaching.

College of Engineering Recruitment and Retention Center

The College of Engineering Recruitment and Retention Center is located in the Engineering Computer Science (ECS) building, Room 136. An additional office for advising is located in the Vivian Engineering Center (VEC), Room 136. For information, see the Web site: www.csulb.edu/coe/aac or call (562) 985-1800 or e-mail coe-admit@csulb.edu.

Mission Statement

To inform, engage, and encourage students to be self-directed in their educational planning process and overall academic success.

The Center serves as the first point of contact for prospective and/or returning Engineering students by providing academic guidance beginning with the application process to full matriculation. The Center’s primary charge is to assist prospective students of Engineering into CSULB through admissions advising, orientation, and career explorations. Although its major effort is directed toward the engagement of first-time freshman and transfer students, it also offers counseling services to students who are on or approaching academic probation. It continues to be active in the recruitment of students into the College through a collaborative participation with many campus offices and departments, California Community Colleges, and local secondary schools. The Center also handles admission inquiries and pre-screening graduate and post-baccalaureate applications prior to the review phase at the department level.

E-FIRST (Engineering Freshman Intervention and Retention Success through Tracking)

First-year freshmen students are assisted in their transition from high school to the academic rigor of an Engineering degree via the learning community model. Mandatory individualized advising, academic plan and career goal setting, as well as guidance on a number of personal decision making and trouble-shooting issues of immediate concern are provided. Students are required to enroll in a number of Engineering foundation courses designed to promote success during the first year. These include: Engineering specific UNIV 100, ENGR 101, ENGR 102, and a discipline-specific course (selected from: ChE 100, CECEM 101, CEGS 105, EE 200, ET 101, MAE 101A, MAE 101B).

Engineering Early Identification and Monitored Probation Program

A comprehensive multi-component program aimed at identifying and providing early intervention to students who are on or approaching academic probation. In addition to helping students determine causes behind academic failure, intensive and intrusive counseling, combined with general advising, help students reach their academic potential.

Project Women 40

Project Women 40 aims to increase the number of women in Engineering to 40%. Through a variety of approaches, this program extends three major goals: 1) outreach to female students at the K-12 level, 2) recruitment of female students at the community college, and 3) retention of female students currently enrolled in Engineering major programs. Each currently enrolled student will be paired with a female student mentor from the local chapter of SWE (Society of Women Engineers) and introduced to a faculty mentor in their respective discipline.

MESA Engineering Program (MEP)

The MEP office is located in Engineering 2, Room 300. For information, call MEP at (562) 985-8014.

The MESA (Mathematics, Engineering, Science, Achievement) Engineering Program (MEP) provides academic advisement for general education to low-income
and educationally disadvantaged students in all of the engineering disciplines: Aerospace, Chemical, Civil, Computer Engineering and Computer Science, Electrical, Engineering Technology, and Mechanical Engineering. The MEP staff works with engineering department advisors to provide current information on engineering course requirements.

Academic advisement is available in the MEP center by appointment and on a walk-in basis.

**Student Access to Sciences and Mathematics Center (SAS)**

The Jensen SAS Center is located in Faculty Office Building 5, Room 109 (FOS-109). For information check the Web site www.susconut.org or call (562) 985-4682.

The Jensen Student Access to Sciences and Mathematics Center (SAS) encourages and supports undergraduate and graduate students as they prepare for careers in the sciences and/or mathematics. There are many programs that combine to make up SAS. Two programs in particular which relate to academic advising are Science Safari to Success and EONS (Enrollment Orientation to the Natural Sciences and Mathematics). Science Safari and EONS are orientation programs for all incoming freshmen and transfer students. These programs welcome students to the College of Natural Sciences and Mathematics by providing resources, academic advising, an overview of career opportunities and degree programs, research opportunities, peer mentoring, and access to appropriate courses for students majoring in the sciences and/or mathematics.

**Bickerstaff Academic Center for Student-Athlete Services**

Bickerstaff Academic Center is located in the Physical Education Building, PE-1, Room 67. Students may call (562) 985-4777 for more information.

Bickerstaff Academic Center (BAC) provides support services for the NCAA Division 1 student-athletes. The BAC staff provide total advisement on academic program planning to meet CSULB graduation requirements and NCAA eligibility requirements, appropriate course suggestions to meet general education and major requirements, and assistance in the identification and clarification of educational and vocational goals. BAC actively monitors student-athlete academic progress and provides referrals to various campus support services to enhance their academic performance.

BAC coordinates three support programs. The Student-Athlete Success Program (SASP), a new academic support program in BAC, is committed to providing 400 student-athletes with tools and resources needed to succeed in the competitive academic environment. Support services include college readiness assessment, college survival study skills seminars, walk-in individual and group tutorials, supervised study hall, individual learning strategists assistance, support service referrals, and a computer access lab.

HEADS UP! is a program in which student-athlete peer mentors assist first-year student-athletes in adjusting to the demands of both intercollegiate athletics and university academics. It also provides the opportunity for freshmen and new transfer student-athletes to participate in transitional support programs designed to capitalize on the student-athletes’ athletic skills, while learning to transfer those skills to the classroom. HEADS UP! promotes involvement in university life and personal academic and athletic competence. Faculty/Student Athlete Connection Program (FACP) pairs student-athletes with distinguished faculty mentors. These faculty mentors can assist student-athletes in a variety of areas including academic assistance, major advisement, and career networking.

**University Honors Program**

The University Honors Program is located in Library and Academic Technology Services, Room 309. Students should visit www.csulb.edu/uhp for more information or call the Director, Professor Tim Caron, or David Jackson at (562) 985-4706 to request a brochure and an application.

The University Honors Program requires no extra coursework and includes small discussion classes with students who share similar interests and abilities; personalized academic advisement and guidance each semester; opportunities for a distinguished undergraduate record as one of fewer than 400 honors students on campus; professors’ profiles of each student’s individual performance placed in a file for job and graduate school applications; and the opportunity to do an undergraduate thesis project in the area of the student’s major. It is possible to graduate in four years and to be recognized at graduation as having fulfilled all the requirements of the Honors Program.

Students with SAT scores of 1600 or above and a high school GPA of 3.3 or above, or with a college GPA of 3.2 or above who still need 21 units of General Education are eligible. Interested students are urged to apply for an interview with the Director of the program.

**Student Academic Support Services**

CSULB believes that ALL students are capable of achieving academic success and thus provides a broad range of educational and student support services to assist them in their academic endeavors. Faculty and professional staff from all areas of the university work together to assist students in reaching their academic potential. The following programs complement and support classroom instruction.

**Career Development Center**

The Career Development Center is located in Brozman Hall, Room 250. For information, call (562) 985-4151, log onto http://careers.csulb.edu, or stop by the office.

The Career Development Center provides resources and strategies for choosing a college major, developing career plans, finding internships and full-time jobs and making successful career transitions. Career decision-making facilitates a student’s definition of his/her personal career goals and objectives based on an understanding of one’s self and the world of work. The Center provides students with the most current career data and information delivery systems.

**Career Planning, Selecting a Major, and Job Search**

Career counselors assist students in exploring career and academic major options and in developing effective job seeking skills through one-on-one counseling and workshops. Counselors also provide assistance with résumé writing, interviewing techniques, job search techniques and other...
facets of the job search process including such topics as networking, accepting or rejecting a job offer, and negotiating a salary.

Once a student has carefully assessed his/her interests, skills, and values, the next step is to discover what professions might best suit them—that is, what major might lead to their desired career path. Career exploration does not entail making one, untenable decision, but it is instead a process that will open up several possible pathways. The Career Development Center provides individual counseling sessions designed to assist students along every step of the career planning process. Additionally, the Career Resource Library contains information about hundreds of career-related topics including choosing a major, internships, résumé writing, job market trends, international jobs, interviewing, job search, employers, and graduate school.

The Career Development Center receives thousands of job listings each year for positions relating to majors in the Colleges of Business, Education, Engineering, Liberal Arts, Natural Sciences and Mathematics, and the Arts. BeachLINK provides users with the ability to search and apply for full-time and part-time jobs, internships and on-campus interview opportunities 24 hours a day, 7 days a week.

The Center also offers the On-Campus Interview Program for graduating seniors and graduate students. Through the OCI program, employers visit the campus each year to conduct interviews. The employment opportunities in this program are generally in the areas of accounting, banking, computer science, engineering, finance, government, general management training, insurance, retail management, sales, and marketing.

Career fairs provide excellent opportunities for students to meet representatives from the companies in their industries of choice and establish a network of contacts. Career Counselors help students research the employers beforehand and provide tips so they are prepared to engage recruiters effectively.

**Internship Program**

A College degree will give you a foundation of knowledge for tomorrow’s work environment, but how do you successfully apply that knowledge? An Internship not only provides the opportunity for practical application of knowledge, but also allows you to develop self-awareness of your strengths, weaknesses, maturity, professionalism, values and ethics.

Internships provide a bridge between classroom learning and practical, real-world experience. An internship is a period of guided work in an employment field, often related to your major, career interest, or chosen career goals. An internship is a partnership between students, employers, and educators. Internships may take place in varied settings, including large corporations, small businesses, community service agencies, and others.

The Career Development Center serves as a resource for students seeking general internship information and advising and maintains an updated listing of internships that have been approved for academic credit. You may access these listings on BeachLink, CSULB’s on-line job and internship posting board, via the Career Development Center Web site at http://careers.csulb.edu. Internships are available in the local area, across the country, and in various international locales.

The Career Development Center Internship Program requires all participating students to enroll in an internship course for academic credit. These internships courses can be a valuable addition to your academic course work, by combining your internship placement with academic guidance on your experiences guided by experienced faculty. The following internship courses are available to students for elective credit (please be sure to check with your college or department for specific enrollment requirements):

- College of Business Administration: CBA 492
- College of Education: EDP 492 (open to all majors)
- College of Arts: FEA 492

In addition to the Career Development Center Internship Program, many academic departments offer internship courses. Students are encouraged to contact their undergraduate advisor and/or internship advisor from the department for more information.

The Internship Program Office is located in Baranoff Hall 250, Call (562) 985-8463 or e-mail intmca@csulb.edu for further information.

**Careers and Disabilities**

Careers and Disabilities is a Career Development Center program designed to help students with disabilities meet the challenges of career planning and job placement. A student with a visual, hearing or speech impairment, a learning disability or limited mobility can learn strategies in this program that will help build bridges to meaningful employment. For information about Careers and Disabilities, call (562) 985-8468.

**Center for Community Engagement**

The Center for Community Engagement (CCE) is located in the Academic Services Building (East Library). For information call (562) 985-7131, log onto www.csulb.edu/cce or stop by the office.

The CCE plays a critical role in helping CSULB achieve its Mission and Envisioned Future to be an outstanding teaching-intensive, research-driven university that emphasizes student engagement, scholarly and creative achievement, civic participation, and global perspectives. The CCE facilitates connections between the university and the community with community-based internships, service-learning, community-based research, and engagement initiatives to enrich campus-community experiences and strengthen community capacity. The mission of the CCE is to engage the university and community in creating a just and civil society where every member functions as an agent of social change. The CCE achieves this by serving as a facilitative partner and resource for faculty & staff, students, and community members in strengthening community capacity, building social and political capital, enriching the educational experience of students, and facilitating shared community-based research through the coordination of civic engagement, effective service learning, and community collaborations.
The CCE implements its mission through partnerships with three Alliances focusing on education, community, and students. These partnerships revolve around three key areas: Community Services Learning, Community-Based Research, and Engagement Initiatives.

Disadvantaged Student Services

Disadvantaged Student Services (DSS) is located in Brotman Hall 270. Call (562) 985-5401 or visit www.csulb.edu/dss for information.

DSS provides appropriate services and accommodations for students with disabilities, including registration assistance, note-taking, sign-language interpreting, reading, test proctoring, academic advising and scholarship information.

The High Tech Center (HTC) provides computer support services for students with disabilities and maintains a consultant relationship with faculty and staff. The HTC staff can provide one-on-one training and small group demonstration sessions for students, faculty and staff members to develop their knowledge about and skills in the use of adaptive technology and access devices. For students who have a print disability, the HTC staff will assist the student in acquiring accessible instructional materials in a format the student can use — for example, Braille, electronic text, or large print. Students who are required to take compulsory exams such as the writing proficiency exam, ELM/CPT, GRE, MSAT, LSAT, etcetera, and need accommodations for the exam, can arrange their accommodations at the HTC in LA 5-173. The Stephen Benson Learning Disability Program provides support services for students with learning disabilities. Graduate counselors within the program provide disability related support services for the academic and personal needs of students identified with learning disabilities. Staff, trained in the assessment for learning disabilities, are available to provide prospective students testing and evaluation for specific learning disabilities. The WorkAbility IV Program, in conjunction with the Career Development Center, provides career planning, placement and job search assistance. Call (562) 985-8038 for more information.

Clients of the Department of Rehabilitation may call DSS to verify the receipt of authorization for tuition and parking payment at this office. DSS also assists with parking for the disabled.

It is recommended that students with disabilities attempt to modify their schedules, as necessary, to lessen the impact of a disability. Students with disabilities, however, may request to enroll in a unit load commensurate with their ability. Reduced unit load is defined as less than 12 units for undergraduates and less than 8 units for graduates. Such requests must be made to DSS prior to each semester affected. If approved, the student will be entitled to all benefits, services and activities governed by the University accorded to full-time students. Eligibility for benefits, services and activities outside the University's control will be governed by each separate external agency based upon actual unit load.

Educational Equity Services

The Office of Educational Equity Services (EES) assists in the admission and retention of first generation college students and academically and economically disadvantaged students some of whom might not otherwise be enrolled in the University. Programs currently under EES include the College Assistance Migrant Program (CAMP), and the federally sponsored TRIO programs, Educational Opportunity Center, Educational Information Services/Talent Search, Student Support Services Program, McNair Scholars Program and Upward Bound.

College Assistance Migrant Program (CAMP)

The CAMP office is located at Liberal Arts 3 Room 202 and is open from 8:00 a.m. to 6:00 p.m., Monday through Thursday and 8:00 a.m. to 12:00 p.m. on Fridays. The telephone number is (562) 985-2006 or FAX (562) 985-2003.

The College Assistance Migrant Program (CAMP) is designed to serve students who themselves or whose immediate family are migrant or seasonal farm workers. Work may include production, transportation or packaging of crops, dairy products, poultry, livestock, cultivation or harvesting of trees (nurseries), or fish farming. The goal of CAMP is to provide outreach and recruitment services to eligible students by assisting them in completing their admissions and financial aid applications. Also offered are parent workshops on motivating their children to enroll in and graduate from college.

The ultimate aim of CAMP is to provide migrant students with the necessary support services to help them transition easily during the first year in college. The project provides a student centered array of academic and personal support services geared toward enhancing each student's learning opportunities and quality of life. Also provided are tutoring, academic skill building instruction; peer and faculty/staff mentoring; assistance with registration; a grant if eligible; exposure to cultural events; and academic programs not usually available to migrant youth.

Educational Opportunity Center

The Educational Opportunity Center is located at the Career Transition Center, 3447 Atlantic Avenue 2nd Floor, Long Beach California 90807 (cross streets Atlantic Avenue and East Wardlow Road). Office hours are 8:00 a.m. to 6:00 p.m. Monday through Thursday and 8:00 a.m. to 12:00 p.m. on Friday. The telephone number is (562) 570-3710 and fax (562) 570-3713.

The Educational Opportunity Center (EOC) is a federally funded program designed to identify and assist low income, first-generation adult participants who want to enter, re-enter or continue in a program of postsecondary education. Adults enrolled or interested in enrolling in a high school diploma or GED program are encouraged to seek services.

The mission of the EOC is to assist program participants reach their educational and career goals by providing quality information, advisement and services. EOC provides free services to individuals who meet the program criteria.

Participants are required to be at least 19 years old; a U.S. citizen, national or permanent resident; reside in one of the target communities: Artesia, Compton, Hawaiian Gardens, Long Beach, Lynwood, Norwalk, Paramount, Willowbrook and Wilmington; attend school or receive services from a site in the target area, and have a need for one or more of the program services.
The EOC provides academic advisement, career advisement, financial aid information, postsecondary advisement, assistance in completing college admissions, testing and financial aid applications. The program also conducts college advisement and financial aid workshops.

**Educational Talent Search**

Educational Talent Search is a federally funded program housed at California State University, Long Beach. Its purpose is to identify, select, and assist low-income, first-generation individuals between the ages of 12 to 17 to continue in and graduate from secondary school and enroll in a postsecondary educational program. Services offered include postsecondary admission and application assistance, financial aid information and application assistance, academic advising, career exploration and planning, cultural and college field trips.

**McNAIR Scholars Program**

The McNAIR Scholars Program provides academic support services, research opportunities and involvement in scholarly activities for 25 low-income, first-generation college students to increase their likelihood of enrollment and success in doctoral programs. The program consists of the Summer Research Internship, which concentrates on a research project to be conducted by the McNAIR Scholar with the guidance of his/her faculty mentor, and the Academic Year Scholarly Experience to provide continuation of the summer research project; academic support and assistance in seeking admission to graduate programs; and assistance in obtaining graduate financial aid. The Scholars’ papers are collected in a publication, the CSULB McNAIR Journal.

**Summer Bridge Program**

The Summer Bridge Program provides an intensive six-week residential summer experience for selected first-time freshmen EOP students entering for the fall semester. The program provides English and mathematics instruction, tutoring, orientation to the campus, study skills workshops and enrichment activities to prepare students for the challenges of college. Participants are required to reside in campus housing for the full six weeks and must successfully complete the program to enroll at the university.

**Upward Bound Program**

The Upward Bound Program is a federally funded college preparatory program designed to assist first generation, low-income high school students who have the potential to pursue postsecondary education. The goal is to assist participants in their efforts to complete high school successfully and obtain a college education.

The program provides summer and weekend academic instruction, tutoring, academic, personal and career counseling, cultural activities and college application and admissions assistance.

**Learning Assistance Center**

Located in the Horn Center, Room 104, the Learning Assistance Center is an all-university academic support service that helps students identify and develop effective learning approaches for their courses. The LAC offers the following services:

- The Learning Skills program offers individual appointments and workshops to help students strengthen a range of study skills and learning strategies including Reading Textbooks Critically, Listening and Note-taking Skills, Time Management, Test-Taking Strategies, Memory Techniques, Learning Styles, Preparing Research/Term Papers, and Preparing for Final Exams. Those preparing for such standardized tests as the GMAT, GRE, and LSAT may combine software or other study tools with individual learning strategy sessions. At faculty request, Learning Skill topics can be tailored to individual courses and presented in class. Workshops are also scheduled by student organizations and other groups.

- The Supplemental Instruction (SI) program offers SI groups to support instruction in courses known to be difficult and SI classes in which students enroll simultaneously in a GE course and the SI class. SI classes and groups address both the comprehension and mastery of course content and the development of study skills that students need to be successful. Sessions are led by advanced students who know the discipline well and have demonstrated the associated skills. Active participants typically perform much better (one letter grade higher) in the target course than peers who attempt it independently.

- The Tutorial Services Program supports a wide range of subjects and specific courses through scheduled drop-in, online, and individual appointment tutoring. Each semester’s tutoring schedule is posted online. Students in academic support programs such as EOP, SSSP, and DSS should contact program advisors regarding tutoring resources.

- The ESL Support Services program is designed for students whose primary language is not English. The International Students’ Conversation Lab provides extensive opportunities to develop English fluency, work on academic language or course assignments and to discuss cultural experiences. Students who need to increase their English language skills to fulfill the Graduation Writing Assessment Requirement (GWAR) may obtain weekly ESL Specialist appointments when referred by the GWAR/WPE Advisor. These services are free to all students.

- To schedule appointments, inquire about walk-in hours, or seek additional information contact the LAC at (562) 985-5350 or www.csulb.lac.

**Prebaccalaureate Advising Support Services**

Prebaccalaureate Advising Support Services (PASS) is located in Academic Services, Room 118. The telephone number is (562) 985-7895. Prebaccalaureate Advising Support Services (PASS) provides advising as well as support to students in course placement and in developing the composition and mathematics skills needed to prepare them for the required Freshman-level composition and mathematics courses. PASS does this by providing a combination of services.

Placement: To receive information about placement into appropriate-level courses and to maintain compliance with Executive Order 065, PASS monitors course placement by advising students into the following review/developmental courses: ASAM 1, AFRS 1, CHLS 1, ENGL 1, ALP/ALI 145, ALP/ALI 150, MAPB 1, and/or MAPB 7 or 11. If placed into these courses, students must complete the prebaccalaureate requirement within 2 semesters.
Tracking: PASS monitors students' progress through the sequence of prebaccalaureate writing skills and mathematics courses required for entrance into Freshmen-level composition and/or mathematics courses. The goal is to be sure that students are making progress and completing the prebaccalaureate classes as stated in Executive Order 665.

Intervention: If students have difficulty in any course while enrolled in the review/developmental courses, PASS counselors can help students by recommending referrals as necessary such as tutoring, diagnostic testing, and learning skills strategies.

Partners for Success — Faculty Mentoring Students Program

The Partners for Success Office is located in the University Student Union (USU-294). The telephone number is (562) 985-7652. Interested students may apply at www.csulb.edu/partners.

For a variety of reasons, many first-generation students — students with parents who do not possess a bachelor's degree — find it challenging to complete their college education. In an effort to retain and graduate these students, a program co-sponsored by Academic Affairs and the Division of Student Services is offered to pair students with faculty members who serve in the capacity of mentors. A mentor, in this case, is an experienced professor who acts as a friendly advisor, helping students become comfortable and successful in the university environment.

Student Transition and Retention Services (STARS)

A range of programs, services, and opportunities to assist new and continuing students are offered through Student Transition and Retention Services (STARS). STARS oversees Student Orientation, Advising and Registration (SOAR), which is the university-required, new student orientation workshop. It is also responsible for continuing orientation, retention programming, and leadership development opportunities such as Life Guard Stations, Student Services Festival, Majors Fair, and Operation: Return to the Beach.

STARS is located in Foundation Building, Suite 100 and can be contacted at (562) 985-5515, starr@csulb.edu, or www.csulb.edu/starr.

Study Abroad Programs

The Study Abroad Office is located in the Center for International Education in Brotman Hall, Room 201.

The Study Abroad office assists CSULB students and faculty to select and prepare for an educational experience in another country. The office administers exchange programs throughout the world, coordinates the London semester program, provides advising services, maintains overseas opportunities resource library, and sponsors special programs such as pre-departure workshops, information seminars, and speakers from off-campus.

Study abroad options include short-term programs (summer and winter), semester programs, and year-long programs. International internships, volunteer, and work experiences are also available. Students may be eligible for financial aid, loans, or scholarships to assist them with their study abroad experience.

International Student Services

International Student Services is located in the Center for International Education in Brotman Hall, Room 201.

International Student Services serves some 1,300 non-immigrant students, representing over 90 countries, by assisting them with their academic, personal, and cultural growth and development during their years at CSULB. This is accomplished through professional counseling and advising; assistance with Department of Homeland Security (DHS) regulations, paperwork processing, and documentation; student orientation activities; and assistance with registration. The ISS staff also serves as the University liaison with consulates, embassies, businesses, foundations, and community organizations concerning international students at CSULB.

In addition, the ISS staff works with international students, faculty, and members of the community to encourage and support international programs. International students are encouraged to participate in University and community programs. During the academic year, the ISS staff works with the International Student Association to plan and organize cross-cultural events such as the Annual International Dinner and Culture Show and other major events. These groups add a special dimension to student life on campus by hosting various cultural events and providing leadership training opportunities for their members.

CSU International Programs (IP) System-wide

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, CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 15,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 20 countries, International Programs also offers a wide selection of study locales and learning environments.

The affiliated institutions are:

- Australia: Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, University of Western Sydney, Victoria University
- Canada: The universities of Province of Quebec including: Bishop's University, Concordia University, McGill University, Université de Montréal, Université Laval, Université du Québec system
- Chile: Pontificia Universidad Católica de Chile (Santiago), University of Concepción, Peking University (Beijing)
- Denmark: Denmark's International Study Program (international education affiliate of University of Copenhagen)
France

Institut des Études Françaises pour Étudiants Etrangers, L'Académie d'Aix-Marseille (Aix-en-Provence)

Université de Poitiers III, IV, V, VI, VII, VIII, IX, XI, XII, XIII

Institut de Oriental Languages and Civilizations and Etrange Université Évry

University of Oregon

Ghana

University of Ghana, Legon

Israel

The Hebrew University of Jerusalem

Italy

CSU Study Center (Florence)

Università degli Studi di Firenze

La Accademia di Belle Arti Firenze

Japan

Waseda University (Tokyo)

Korea

Yonsei University (Seoul)

Mexico

Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

New Zealand

Massey University (Palmerston North)

South Africa

University of KwaZulu Natal

Spain

Universidad Complutense de Madrid

Sweden

Uppsala University

Taiwan

National Taiwan University (Taipei)

United Kingdom

National Tsing Hua University

Bradford University

Bristol University

Hull University

Kingston University

Sheffield University

University of Wales, Swansea

Zimbabwe

University of Zimbabwe

Information on academic course offerings available at those locations is in the International Programs Catalog which may be obtained from the Study Abroad Office in the Center for International Education (BH 201) or by writing to The California State University International Programs, 401 Golden Shore, Long Beach, CA 90802-4210 (562) 985-4790.

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

To qualify for admission to international Programs, students must have upper-division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in France, Germany, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative GPA of 2.75 or 3.00, depending on the program for which they apply, for all college work completed at the time of application, and have completed required language or other preparatory study where applicable. Selection is competitive and is based on home campus recommendations and the applicant's academic record. Final selection is made by the Office of International Programs in consultation with a statewide selection committee.

Additional information and application materials may be obtained from the CSULB Center for International Education by calling (562) 985-8420 or by writing to The California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit us on the World Wide Web at: www.csulb.edu/ouab/ouab1.

Applications for the 2009-2010 academic year overseas must be submitted by February 1, 2009 (May 1 for Australia and New Zealand).

Writer's Resource Lab

The Writer's Resource Lab provides individualized instruction to help CSULB students develop their writing abilities. For specific information or to make a tutoring appointment, please stop by the Writer's Resource Lab in LB 266 or call (562) 985-4392.

At the Writer's Resource Lab, students can consult with friendly, knowledgeable tutors in order to become more confident with the process of writing.

Students do not need to be taking a writing course to use the services; they are available to any currently enrolled CSULB student. Instructional activities include the following:

1. One-on-one tutoring appointments;
2. Personalized consultation for students preparing to take (or retake) CSULB's Writing Proficiency Exam;
3. Intensive language acquisition instruction tailored to the needs of students whose first language is not English.

In addition, students are welcome to drop by and use the library of writing reference materials. Other services provided by the Writer's Resource Lab include group tutorial sessions and workshops on various writing issues.

Campus Services

A wide range of campus services and co-curricular activities aim to ensure that student needs are met as well as to enhance their college experience. Students are encouraged to take advantage of these services.

Counseling and Psychological Services

Counseling and Psychological Services (CAPS) offers an array of services to help students achieve a satisfactory and meaningful academic experience. CAPS is located in Brodman Hall 226. The telephone number is (562) 985-4001. The CAPS web address is: www.csulb.edu/caps.

Staff members of CAPS are trained at the doctoral level in counseling psychology and student development services. Staff members are skilled in assisting students to translate their individual personal development, career development, and previous educational experience into optimal academic achievement and collegiate life experience.

Students are seen at CAPS by an intake counselor. Psychologists are assigned to students based on the type of problem expressed and/or identified in the initial interview. Most individual counseling is short-term and lasts three to five sessions. The staff is also trained to address complex types of career and personal problems that may require more extensive counseling. Crisis intervention services are available on an immediate basis.
An extensive group counseling program exists for specific kinds of counseling issues such as stress management or interpersonal skill development. The mini-workshops acquaint students with various life skills such as assertiveness and time management. CAPS is especially dedicated to working with students from diverse backgrounds.

Isabel Patterson Child Development Center

The Isabel Patterson Child Development Center is located on campus at 5700 Atherton Street. For information call (562) 985-5333 8:00 a.m. - 5:00 p.m.

In January of 1973, the University and the Associated Students opened the Isabel Patterson Child Development Center to provide quality child care services to the University and community. The facility was made possible by the generous donation of Isabel Patterson, a CSULB alumnus.

The child care services provided enable a student parent to attend classes at the University. Following the registration of children of student parents, the children of University staff, faculty, administration, alumni and then community are offered these services as space allows.

Child care services are available for children six months to 2 1/2 years in the Infant/Toddler Program; 2 1/2 to five years in the Pre-school Program; and Kindergarten through second grade in the School-age Program.

The environment of the Center allows children to move freely and choose from a variety of activities that include but are not limited to reading, music, water and sand play, art, science, cognitive games and dramatic play. Some of the program’s goals are to help children be responsible and able to solve their problems, to be inner-directed, to be aware of alternatives and able to make choices, and to be free from gender and other stereotypes. The program includes a family-style breakfast, lunch and afternoon snack.

The Center employs early childhood education care and development professionals. The part-time teaching staff is composed of CSULB students who are required to participate in the Center’s comprehensive training program. The Center is accredited by the National Association for the Education of Young Children.

University Library

The mission of the University Library (www.csulb.edu/lib) is to provide students, faculty, staff, and community members the information resources they need for study, research, enrichment, and recreation. These resources are contained in collections that are both physical and virtual, print and digital. They include books, journals, government documents, maps, images and sound files. The library’s online catalog, COAST (http://coast.csulb.edu), provides easy access and discovery.

The Special Collections Department is home to an outstanding collection of rare, significant, or unusual books and manuscripts, correspondence, art prints, and photography. The library participates in LINK+, a consortium of over 40 academic, public, and corporate libraries in California and Nevada; their combined collections offer over 7 million unique titles to CSULB borrowers. Subscriptions to many thousands of web-based reference sources and full-text journals, along with a rapidly growing collection of electronic books make it possible to deliver a great deal of research information to the scholar’s desktop at any time of the day or night. The Spidel Technology Center, located on the first floor, is the largest and best-utilized student computing facility on campus.

In fulfilling their duties at a wide range of service points within the building, library staff and librarians show a commitment to efficient, helpful service. Library faculty guide students through the process of identifying, retrieving, organizing, evaluating, and synthesizing information, a critical skill in today’s society. For many students the first introduction to library services at CSULB is through the required library component of University 100, designed to give new students exposure to the basic concepts of information literacy. Librarians also provide a variety of workshops, as well as individual in-depth consultation focusing on a specific research topic or project.

The University Library offers adaptive devices to make print and electronic resources accessible to the disabled, and it works closely with Disabled Student Services to insure that equipment, facilities, and collections are responsive to those with special needs.

Student Health Services

Student Health Services (SHS) is the campus health center providing medical services, preventive health and health education programs. A highly trained and experienced staff of physicians, nurses and other health care professionals are dedicated to student health and well being. The SHS is located on State University Drive and Morrill Way, between Brotman Hall and the residence halls. The SHS is accredited by the Association for Ambulatory Health Care, and is a member of the American College Health Association. Web site: www.csulb.edu/ths.

Important phone numbers are: the SHS Switchboard, (562) 985-4771, and Appointment Desk, (562) 985-1638. Medical emergencies arising on campus are directed to University Police 9-1-1.

Eligibility for Services

All regularly enrolled students registered for the current semester are eligible for services by paying the $45 mandatory Health Fee at registration. Continuing students who take two consecutive semesters of educational leave can receive services by paying the Health Fee at Student Health Services, providing they are returning the following semester. Students enrolled in University College and Extension Services (UCES) can receive services for $15.00 per visit while classes are in session.

Clinical Services

Outpatient medical care is provided for acute injury and illness. Long term or overnight care is not provided. Services include Women’s Health, Men’s Health, and some specialties. Provisions are made for outside referrals for care beyond the scope of SHS. X-ray, clinical laboratory, and pharmacy are available. Visits to the SHS, in house laboratory tests, and x-rays are provided without charge. Laboratory tests sent to outside reference labs and pharmacy medications are available at low cost. The SHS is open year round. Hours are 8:00 a.m. to 6:00 p.m. Monday, Tuesday and Thursday; 10:00 a.m. to 7:00 p.m. Wednesday; and 8:00 a.m. to 12:00 noon Friday.
Health Resource Center

The Health Resource Center (HRC) is located in the Student Health Services (SHS) room 250. The HRC provides health education and support to students with a variety of programs and services. Programs include the Alcohol, Tobacco & Drug Abuse Prevention Workshop, the Nutrition Counseling, HIV Testing and Counseling Workshop, and the Sexual Health Awareness Workshop. Services include a computerized health resource service, the Health Beat Newsletter, multi-media health information, and health promotion campus outreach activities. Volunteer and internship opportunities are available. For more information call (562) 985-4609 or visit the Web site at www.csulb.edu/hrc.

Immunization Requirement Clearance

Students enrolled in a California school for the seventh grade or higher on or after July 1, 1990 will have satisfied the requirements for Hepatitis B and Measles/Rubella. Hepatitis B is required of students who are 18 and younger on the first day of class. Measles/Rubella is required of all students born after January 1, 1957. Clearance is obtained at the SHS by showing proof of immunity using medical records or by receiving immunizations (available at the SHS). Medical and religious exemptions are available. For more information see Admission to the University. Immunization Requirements section. Students may also phone the SHS at (562) 985-4771, call the Immunization Hotline at (562) 985-5411, or visit the Web site www.csulb.edu/shs and click on immunization information.

Medical Insurance

Medical insurance is strongly recommended. The Associated Students Inc. sponsors an individual health insurance plan available to all enrolled students. For more information contact Associated Students Business Office, (562) 985-8311, or visit the plan site www.chickenmg.com/schools/csulb/rcsau/ps.

Office of University Ombuds

The Office of University Ombuds is located in the Foundation Building, Suite 140. The telephone number is (562) 985-5603. The office is open for appointments Monday through Friday, 8:30 a.m. to 12:00 noon and 1:00 p.m. to 4:30 p.m. Special arrangements for another meeting time can be made upon request. For more information, e-mail the University Ombuds (ombuds@csulb.edu) or visit the Web site (www.csulb.edu/ombuds).

The Office of University Ombuds is an independent, neutral resource for informal problem-solving on campus. The Office serves all members of the campus community—students, alumni, faculty, staff, administrators, emeriti and retirees. The office answers inquiries about the University, provides a safe place for discussing sensitive issues and identifying options, and facilitates conversations and mediations to resolve conflicts. In addition, the Office offers educational programs and workshops, recommends policy changes to remedy systemic problems, and collaborates with others to improve campus life and strengthen community. The Office of University Ombuds maintains confidentiality in accordance with the Code of Ethics of the International Ombudsman Association, the limits of the law, and our organizational context.

The Ombuds does not participate in formal litigation, formal disciplinary actions, formal complaints, or grievance hearings. The services provided by the Office of University Ombuds do not compromise or replace university policies or procedures nor do they interfere with the right of a person to pursue the various formal options that are available. Discussion with the University Ombuds does not constitute notice to the institution with regard to grievances and formal complaints.

Veterans' Services

The Veterans' Services office coordinates all veterans' financial benefits including initiation of federal and state benefits, maintenance of veterans' status with the Veterans' Administration and continuation of benefits through enrollment certification. The office is supervised by the Career Development Center and is located in Brozman Hall Room 20.

Student Life and Resources

College Organizations

Many academic departments have a student departmental association composed of students in that discipline. In addition, there are other acdemically-related organizations and discipline-based honorary societies. Representatives from each departmental association work together on a college student council for each of the seven colleges. The organizations promote interaction between faculty and students by sponsoring speakers, seminars, social gatherings and other activities related to their disciplines. Students also have the opportunity to provide input regarding their educational experiences to their faculty and departmental chairs, as well as to their deans via the departmental associations and student councils, respectively. SLD staff members play a key role in coordinating major events such as Engineering Day, Health and Human Services Career Month, the Awareness Festival, College of the Arts Week, and the Nobel Laureate Lecture.

Leadership Academy

The Leadership Academy is a series of workshops focused on cultivating leadership excellence. Its purpose is to help students improve their leadership potential and to develop practical application to increase their understanding of leadership skills.

Lois J. Swanson Leadership Resource Center

The Leadership Resource Center is located on the third floor of the University Student Union, Room 314. To contact the LRC, call (562) 985-1936.

The vision of the Lois J. Swanson Leadership Resource Center (LRC) is to cultivate leadership excellence. Its purpose is to prepare CSULB students to be the world's best leaders and maximize leadership potential with a commitment to serve others. The LRC provides a leadership library, resources, and a boardroom. The library holds books, videos, tapes and materials for icebreakers and interactive activities. Resources include a series of seminars to enhance leadership skills, increase self-confidence and develop teamwork. The LRC offers consultations.
for classroom facilitation, conferences and customized workshops. The LRC "Dr. Kathryn E. Goddard Board Room" can be reserved for leadership-related meetings.

Multicultural Center

The Multicultural Center is located in Faculty Office Building 3 (FO3), Room 003 and is open from 9:00-5:00, Monday through Friday. For more information, the Center's Web site is www.csulb.edu/centers/mcc or call (562) 985-8150. The center invites comments, ideas, and input to be sent to mcc@csulb.edu.

The mission of the Multicultural Center is to contribute to the creation of a campus environment which respects and supports cultural, ethnic, and racial diversity. The center is an educational resource center which serves as a vehicle for the expression of the needs and concerns of CSULB's increasing diverse campus community.

The objectives and activities of the center include its signature project S.T.A.R. (Students Talk About Race), which is offered every semester and trains students in cross-cultural communication and commits them to 8 weeks as facilitators at local middle and high school classrooms; diversity workshops, lectures, and forums; an extensive up-to-date library of journals, magazines, books, videos, some DVDs, and audio tapes; archived newspaper articles, an art gallery celebrating the center's theme of cultural diversity by well-known and student artists; and student internship opportunities. The center's resources are available for students, faculty, staff and community members.

Student-Run Resource Centers

There are five student-run resource centers on campus. These venues are for affiliated student organizations to conduct program planning, peer mentoring, officer meetings, and post information regarding scholarships, service, and internship opportunities.

- American Indian Student Study Center, FO4-282, (562) 985-4813
- Asian Pacific Student Resource Center, FO4-277
- Black Student Cultural Center, FO4-274, (562) 985-502
- Raza Resource Center, FO4-263, (562) 985-5223
- Lesbian/Gay/Bisexual/Transgender Resource Center (LGBTRC), FO4-165, (562) 985-4585 (general information), (562) 985-4389 (event line) or e-mail lgbtrc@hotmail.com

University Interfaith Center

The University Interfaith Center (UIC) is located in the University Student Union, room 103. For information on programs and resources call (562) 985-4369.

The UIC is an association of 12 faith traditions serving the educational community of CSULB. Member groups represent individual faiths while respecting the diversity of religious traditions and the pluralistic nature of the university. Membership in the association is extended to faith groups which choose to work cooperatively, respecting the integrity of one another's religious traditions. All of the services of the University Interfaith Center are available to the entire campus community—students, faculty, and staff.

The UIC aims to enhance the educational experience by encouraging students, faculty, and staff in their pursuit of spiritual growth, community building, faith development and personal values. It offers pastoral care/spiritual support, educational programs, student community, worship services, service projects, conferences/retreats and referral information. It also provides a library on topics of religion and a comfortable lounge area where students can meet, share a meal or study.

Women's Resource Center

The Women's Resource Center supports and facilitates the educational, professional and personal success of campus women through educational programs, campus and community resource connections, peer support assistance, and a welcoming lounge.

The WRC offers women's support, affinity and networking groups, and maintains an extensive list of referrals to campus and community services. The WRC also organizes and coordinates a sexual assault prevention education program with information and presentations for classrooms and organizations. Educational events presented throughout the school year are often collaborative projects with other academic and student services programs. The seminars, workshops and/or conferences range from the more current theoretical women's issues to practical concerns of university women.

Finally, the Lounge is a comfortable space where students relax, study, hold meetings, or visit with friends. It includes a small hospitality area where students can drink a cup of coffee or refrigerate their lunch.

The WRC, located in Liberal Arts 3-105, is open 9:00 a.m. to 5:00 p.m. Monday through Friday and two evenings until 8:30 p.m. Its services are free and available to women and men. For further information, call (562) 985-8087/8576.

Student Government

The Associated Students Government Offices are located in suite 311 of the University Student Union. For further information, stop by or call (562) 985-5241.

The quality of student life at CSULB is largely determined by students themselves. The time-honored tradition of student self-governance affords students a remarkable level of autonomy and provides a wealth of opportunities for developing leadership and management skills that can be as valuable as any classroom learning experience. Through self-governance, students learn how to make good decisions, how to motivate others to work toward a common goal, and how to manage budgets and other critical resources.

Student government at The Beach is organized under the Associated Students, a California nonprofit corporation owned and operated by the students of CSULB. Every student becomes a member and "shareholder" of the Associated Students upon registration, and all are encouraged to get involved in Associated Student activities. In addition to student government, the Associated Students also operates and manages the University Student Union, the Isabel Paterson Child Development Center, the ASI Recycling Center, the Siouxsie House, the Beach Pride Center, K-Beach radio, the Long Beach Union newspaper, and the Gold Mine Yearbook, and the Intramural and Sports and Wellness Program.
ACADEMIC INFORMATION AND REGULATIONS

Frequently Asked Questions
Students ask many of the following questions about the processes and rules of CSULB. Successful students know the answers to these frequently asked questions. Please read them carefully. Knowing those answers can help you avoid pitfalls during your first semester on campus. For further information, see this section of the Catalog or contact the Academic Advising Center at (562) 985-4837.

1. **Why is it critical that I check e-mail from CSULB?** It is important to check your e-mail regularly since this is the primary means by which you will receive important information from the university (e.g., deadlines for adding and dropping classes, your registration appointment date).

2. **How do I tell the university about a change in my e-mail address or mailing address?** You can use MyCSULB to change your e-mail address, indicate the e-mail address that you prefer to use, or change your mailing address. Click on "Personal Profile" to view your current information and to make changes.

3. **Why should I check my official class schedule at the beginning of each semester and again after two or three weeks?** It is important to make sure that you are officially enrolled in every class you are attending, and not enrolled in any class you are not attending. Remember that an instructor can give you permission to add a class, but only you can officially enroll yourself in a class (or drop yourself from a class).

4. **Why is it important that I personally drop classes that I have registered for but am no longer attending?** Instructors do not have the responsibility to drop students. Students must drop classes they no longer want or never attended (using MyCSULB) up to and during the first two (2) weeks of the semester.

Beginning the third week, students must use the official withdrawal form to change their schedule. (See the section on Withdrawals for the rules that apply to withdrawal after the third week of classes.) Official withdrawal is indicated on the transcript with the symbol "W." This designation does not affect grade point average (GPA). Students who fail to withdraw officially within the established deadline receive a "WU" symbol (unauthorized withdrawal).

In the calculation of the GPA, a "WU" is counted as an "F" grade.

5. **Can freshmen/sophomore students take upper-division (300-499) classes?** University policy prohibits students with under 30 units from taking upper-division courses without permission of the instructor.

6. **What can I do if I get a "D" or "F" or "WU" in a course?** The University has a policy that allows undergraduates to repeat a course in which they earned a "D," "F," or "WU." If the second grade is a "C" or better, the second grade will be used to calculate your GPA. Both grades remain on the transcript, but the first one is "deleted" from the GPA calculation. This can only be done once per course at CSULB. If you don't earn a "C" or better on the second try, all grades will be counted. For further details, refer to the "Repetition of Courses for Satisfactory Grade" in this section of the Catalog.

Academic Calendar
California State University, Long Beach operates on a semester system, which is supplemented by a state-supported summer term and a fee-supported winter session. Normally, fall semester classes begin in late August or early September. The last day of instruction usually occurs midway in December; this allows for a week of final examinations prior to the winter recess, which begins about December 20. The spring semester usually begins in the last week of January and ends in mid-May, in time for a week of final examinations and the week of commencement exercises just before or after Memorial Day. The summer term, consisting of three overlapping six-week sessions, begins in June and through July and into late August.

Enrolling in Classes
Registration dates and detailed instructions can be found on the Enrollment Services website for each semester. Continuing students and newly admitted graduate students are sent a registration appointment date. Undergraduate students who are new to CSULB register when they attend the Student Orientation, Advising and Registration program (SOAR).

Students may enroll in classes via "MyCSULB" starting on the enrollment appointment day assigned by the University through the first two weeks of the fall and spring semesters. During the third week of the semester written permission on a Late Registration Request form is required from the instructor and a stamp of approval is required from the department. Late registration requests will be considered during the fourth week of instruction with the payment of a missed deadline fee.

Students receiving faculty or department "permission" to add classes via MyCSULB or who have been added to an instructor's wait list or roster must still complete the add procedures by the dates listed each semester. No request to add classes will be considered after the fourth week of the semester unless there is an approved technical error.

Note: Students must complete the procedures for official registration in classes. Instructors, advisors and departments cannot add students into classes.

Students are not permitted to attend any class for which they have not officially registered.

Registration Holds
Students may be prevented from registering because they have not met a university obligation. Students can view their own information (HOLDS) on MyCSULB.

Financial Holds
Students are personally responsible for making sure that registration fees and any other fees or charges are paid on time to CSULB, regardless of who funds the student's education.

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These charges can include payment for items damaged, returned late, or returned, and can include course fees for some courses or activities.

Students can review their account balance at MyCSULB or by telephone, (562) 985-2500. Payment can be made at MyCSULB or at the Cashier’s Office, BH 148.

Students who have an unpaid balance will have a financial hold placed on their academic records until the balance is paid or a written release from the originating office is received by the Student Account Services Office. The hold restricts the student from receiving University services, including but not limited to registration, grades, and transcripts.

If the obligation continues to appear on the University reports, the student's name will be submitted to the Franchise Tax Board. In this case, the student or former student, permanently loses the privilege of submitting checks as payment for fees or services. (Acceptable methods of payment are cash, cashiers’ check or money order.) The State then has the authority to withhold amounts owed to the University from any tax refund to which the student may be entitled.

Other Holds

The following types of holds may appear. Students should contact the office listed for information about how to clear the hold.

- Failure to take a required test - Testing and Evaluation Services (562) 985-4006
- Remodelation hold - Pre-baccalaureate Advising and Support Services AS 14, (562) 985-7995
- Perkins Loans - Business Office, BH 155, (562) 985-5348
- Measles – Student Health Services, (562) 985-4771
- VISA hold (Foreign Clearance) – Center for International Education, BH 291, (562) 985-4106

Advising for Freshmen

CSULB is committed to offering our students the best possible first-year experience; therefore, we have established procedures which will ensure that all students receive accurate and timely academic advising. Advising is an opportunity for students to connect with their college or department advisor; faculty and staff to discuss future educational plans. Through this connection, students will be able to discuss future educational goals, review program options, and receive advice on course selection.

This connection is one of the most important steps to your future success at the Beach! We feel so strongly about ensuring you have advising as you prepare for your sophomore year, that we require all freshmen to participate in the program prior to registering.

In addition, CSULB advisors can assist in a variety of different ways by working with students to horizon interests; develop academic and career goals; identify major areas of academic interest; create realistic plans of study; increase decision-making skills; take responsibility for academic direction.

All entering freshmen have "advising holds" placed on their records for their first year and will not be able to change their schedules without consultation with an advisor. Mid-way through the semester, freshmen will receive information about the Mandatory Advising Program, a comprehensive advising session to prepare for the next semester course selections. The advising hold will be removed after the student attends the advising session.

Class Attendance

Students are expected to attend classes regularly. Classroom attendance is often one of the most necessary and important means of learning and in many classes is essential to the educational objectives of the course.

Faculty members must include their guidelines for assigning grades in the syllabus (as required by Policy Statement 04-05, Course Syllabi). The syllabus must make clear whether any portion of the grade is based on attendance and/or participation. It is the students' responsibility to make themselves aware of each faculty member's guidelines by carefully reading the syllabus.

Faculty members may drop students who fail to attend class during the first week of the semester. However, students should not presume that they will be dropped by the faculty member. Students who have registered for a class, but never attended, should verify whether or not they are officially enrolled. It is the student's responsibility to withdraw officially from the class.

Students may have a valid reason to miss a class. When any of the following reasons directly conflict with class meeting times, students are responsible for informing faculty members of the reason for the absence and for arranging to make up missed assignments, tests, quizzes, and class work as soon as this is possible. Excused absences include, but are not limited to:

1. Illness or injury to the student
2. Death, injury, or serious illness of an immediate family member of the student
3. Religious reasons (California Education Code section 48320)
4. Jury or government obligation
5. University sanctioned or approved activities (examples include: artistic performances, forensics presentations, participation in research conferences, intercollegiate athletic activities, student government, required class field trips, etc.)

Faculty members are not obligated to consider other absences as excused. Faculty members may require students to provide documentation for excused absences.

There are numerous classes offered on campus where attendance is crucial since student participation is essential. Absence from these courses may impact the work and participation of other students. Students who anticipate extended or multiple absences during a particular semester should consult with their advisor and the faculty member before enrolling in any class to determine whether it will be possible to complete the requirements for the course. Students who realize after enrollment that they will have extended or multiple absences should consult with the faculty member to see whether it will be possible to complete the course requirements.

The earliest possible notification is preferred. In some circumstances, it may be possible for the student to notify the faculty member of anticipated absences (e.g., for religious reasons or for scheduled athletic events) during the first week of enrollment. Advance notification (minimum one week in advance) is required for the following absences:

1. Jury duty and other government obligation
2. Religious reasons
3. University sanctioned or approved activities
The California Education Code (section 89320) requires "each state university, in administering any test or examination, to permit any student who is eligible to undergo the test or examination to do so, without penalty, at a time when that activity would not violate the student's religious creed. This requirement shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship which could not reasonably have been avoided. In any court proceeding in which the existence of an undue hardship which could not reasonably have been avoided is an issue, the burden of proof shall be upon the institution."

It is the responsibility of the student to make advance notification, contact the faculty member to make arrangements to make up any academic work that may be missed, submit assignments on time, and to make arrangements regarding activities, tests, quizzes, or exams that may be scheduled during the absences.

If a student does not notify the faculty member one week in advance of the date of absences for these reasons (jury duty, governmental service, religious observances, or University sanctioned activities), the instructor is not required to adjust the class schedule or to allow for make up activities, tests, or exams. Students shall not, however, be penalized for excused absences when circumstances make it impossible to provide advance notice (e.g. student is engaged in a University sanctioned event such as a performance, tournament, or playoff which cannot be anticipated)

Students who expect to be absent from the University for any valid reason, and who have found it difficult to inform their instructors, should notify the academic department office. The department office shall notify the student's instructors of the nature and duration of the absence. It remains the responsibility of the student to arrange with instructors to make up any academic work missed.

In circumstances where an actual assignment, some specific class work, an activity, a quiz, or an exam cannot reasonably be made up, it is the instructor's option to assign alternative work. (PS 01-01)

Visitors to Classes

Only students registered for the class either as regular students or as auditors, the instructor, and invited guests of the instructor may attend classes at CSULB. Persons wishing to become guests of the instructor should seek the instructor's permission prior to the scheduled beginning of the class session.

Faculty Office Hours

The purpose of office hours is to provide opportunities for student-faculty interaction outside the classroom. Each instructional faculty member will hold one office hour per week for every class taught, up to a maximum of four hours. Faculty may account for up to one hour of this expectation through alternative forms of access such as availability by appointment or through e-mail. The faculty member's office hours, phone number, and email contact will be posted by the door and announced in the syllabus. (PS 02-10)

Cheating and Plagiarism

It is the policy of the faculty and administration to deal effectively with the student who practices cheating or plagiarism. These acts are fundamentally destructive of the process of education and the constant evaluation of a student's mastery over a subject. A University maintains respect and functions successfully within the larger community when its reputation is built on honesty. By the same token, each student benefits in helping to maintain the integrity of the University. This policy, therefore, provides for a variety of faculty actions including those which may lead to the assignment of a failing grade for a course and for administrative actions which may lead to dismissal from the University. This document is written with the intent to support the traditional values that students are on their honor to perform their academic duties in an ethical manner.

General

The following definitions of cheating and plagiarism shall apply to all work submitted by a student. Any change or refinement in the following definitions or applications of the definitions, necessitated by the nature of the work involved, shall be made by the faculty member or department desiring the change. Any change shall be announced, in writing, in the relevant classes before the work is assigned and a copy of the changes will be filed in the department office and in the Office of Judicial Affairs.

Definition of Plagiarism

Plagiarism is defined as the act of using the ideas or work of another person or persons as if they were one's own, without giving credit to the source. Such an act is not plagiarism if it is ascertained that the ideas were arrived at through independent reasoning or logic or where the thought or idea is common knowledge. Acknowledgment of an original author or source must be made through appropriate references, i.e., quotation marks, footnotes, or commentary. Examples of plagiarism include, but are not limited to, the following: the submission of a work, either in part or in whole, completed by another; failure to give credit for ideas, statements, facts or conclusions with rightfully belong to another; in written work, failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence, or even a part thereof, or close and longwinded paraphrasing of another's writing or programming. A student who is in doubt about the extent of acceptable paraphrasing should consult the instructor. Students are cautioned that, in conducting their research, they should prepare their notes by (a) either quoting material exactly (using quotation marks) at the time they take notes from a source, or (b) departing completely from the language used in the source, putting the material into their own words. In this way, when the material is used in the paper or project, the student can avoid plagiarism resulting from verbatim use of notes. Both quoted and paraphrased materials must be given proper citations.

Definition of Cheating

Cheating is defined as the act of obtaining or attempting to obtain or aiding another to obtain academic credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of cheating during an examination would include, but not be limited to the following: copying, either in part or in whole, from another test or examination; discussion of
answers or ideas relating to the answers on an examination or test unless such discussion is specifically authorized by the instructor; giving or receiving copies of an exam without the permission of the instructor; using or displaying notes, "cheat sheets," or other information or devices inappropriate to the prescribed test conditions, as when the test of competence includes a test of unassisted recall of information, skill, or procedure; allowing someone other than the officially enrolled student to represent the same. Also included are plagiarism as defined and altering or interfering with the grading procedures. It is often appropriate for students to study together or to work in teams on projects. However, such students should be careful to avoid use of unauthorized assistance, and to avoid any implication of cheating, by such means as sitting apart from one another in examinations, presenting the work in a manner which clearly indicates the effort of each individual, or such other method as is appropriate to the particular course.

Faculty Responsibilities in Allegations of Cheating or Plagiarism

Before a faculty member charges a student with cheating or plagiarism, the faculty member should have reasonable evidence with respect thereto. Reasonable evidence includes documentary or other physical evidence, personal observation, or testimony. Prior cheating or plagiarism is not reasonable evidence. In order to establish facts of the student's knowledge or skill, the faculty member may ask the student to provide such additional demonstration of competency as the faculty member deems necessary to evaluate scholarship and academic performance. The faculty member must advise the student that a decision to provide an opportunity for such an additional demonstration of competency is entirely at the faculty member's option and that the student may comply with the request of the faculty member at the student's option. Neither compliance nor non-compliance shall be considered an admission of cheating or plagiarism.

In cases where a student is suspected of cheating or plagiarism, the faculty member should arrange for an informal office conference with the student as soon as possible. The purpose of the informal conference is to bring the persons involved together to discuss the issues informally and to discuss courses of action. At the conference the student shall be notified by the faculty member of the charge and supporting evidence. For an incident which occurs during or as a part of a final examination consult the section just below.

In cases where there is more than one individual suspected of cheating or plagiarism, the faculty member may decide to call the students to confer jointly as a group, or as individuals, or both. If the faculty member should decide to confer with the students as a group, the students shall have the option to also confer with the instructor separately as individuals.

The faculty member shall inform the student(s) that both students and faculty have the right to submit a request to the Academic Integrity Committee (discussed below) for a written opinion on whether the accusation is supported by the evidence. All notes and discussions between the student and the faculty member are confidential, except as may be relevant to the Academic Integrity Committee or in subsequent campus disciplinary proceedings. Neither the faculty member nor the student should discuss a specific charge of cheating or plagiarism or any violations with reference to individuals in the classroom before other members of the class.

When the student cannot be contacted and therefore the informal conference cannot be held, as is sometimes the case after final examinations, a grade of "I" (Incomplete) may be assigned, but only if the instructor wishes an additional test of competence (see section just above). The instructor shall have the agreement form for assigning an "Incomplete" sent to the last known address of the student. The agreement form shall state the following:

Under the provisions of the C.S.U.L.B. Policy Statement on Cheating and Plagiarism, an additional test of competency related to the syllabus name of suspect demonstration, e.g., Final Examination) is requested. (Explain what additional test of competency.) You may decline to do so. Please contact the instructor, the department office, or the Office of Judicial Affairs for information regarding the University policy on Cheating and Plagiarism. The instructor must indicate on the agreement form the grade with which will be assigned, normally 120 calendar days following mailing of the Incomplete Agreement, if the student does not respond or, responding, the student does not agree to an additional test of competence.

Charges of cheating or plagiarism cannot be brought against a student more than 120 calendar days after discovery that the work in question may have been plagiarized or that cheating may have taken place.

Notes and evidence shall be kept by the department chair or program director for a minimum of five years after the case is settled.

In implementation of the Executive Order from the Chancellor's Office that requires documentation of faculty action regarding cheating and plagiarism, the Academic Senate revised the Cheating and Plagiarism Policy to include the following language: After action has been taken by the faculty member, the faculty member shall complete a form that identifies the student who was found responsible, the general nature of the offense, the action taken, and a recommendation as to whether or not additional action should be considered by the Office of Judicial Affairs. The complete form should be sent by the faculty member to both the provost and the vice president for student affairs whenever cases of academic dishonesty are handled by the faculty member.

Academic Integrity Committee

The Chair of the Academic Senate and the Senior Vice President for Academic Affairs shall jointly appoint an Academic Integrity Committee for the University. This Committee shall consist of one member from the student body, chosen by the Associated Students Government for a one year term of office; three members of the full-time, tenured or tenure-track faculty, each with a term of office of two years, terms of office expiring in alternate years; and one member of the Office of Academic Affairs, who shall be Chair, voting only in case of ties.

The primary charge of the Committee is to receive the requests of students accused of cheating or plagiarism or the requests of faculty accusing specified student(s) of cheating or plagiarism. Following its review of the evidence, the Committee shall report its opinion to the student(s) and to the faculty member involved on whether the accusation is supported by the evidence. This opinion may not be appealed. However, when new evidence appears to so warrant, a faculty member or student may ask, in writing,
the Senior Vice President for Academic Affairs or the Chair of the Academic Senate to request the Committee to reconsider a case. The Academic Integrity Committee shall make readily available the rules and procedures governing its operations.

In all cases, a Report of the Committee is advisory to the student, with whom rests the presumption of innocence, and the faculty member, to whom the decision on the evidence and academic action is reserved.

A faculty member or student who requests a review of the evidence in a case of alleged cheating or plagiarism must make such a request to the Academic Integrity Committee in writing no later than 14 calendar days following the date of first notification of the student by the faculty member of the allegation. Except under extenuating circumstances, the student and faculty member will have no more than 14 additional calendar days to provide evidence to the Committee.

To preserve the rights of privacy, the Committee meetings shall be closed. The Committee may request additional information as may be appropriate to the development of its reports. The Committee is to provide a final report within 21 calendar days of the submission of a request to it. Should additional time be required, the reasons should be communicated to the Vice President for Academic Affairs and the Chair of the Academic Senate as well as the student(s) and faculty members involved.

The Committee is to report on its actions annually to the Vice President for Academic Affairs and the Chair of the Academic Senate.

Academic Action

One or more of the following academic actions are available to the faculty member who finds a student has been cheating or plagiarizing. Those options may be taken by the faculty member to the extent that the faculty member considers the cheating or plagiarism to manifest the student’s lack of scholarship or to reflect on the student’s lack of academic performance in the course. These actions may be taken without a request for or before the receipt of a report from the Academic Integrity Committee.

- Review – no action
- An oral reprimand with emphasis on counseling toward prevention of further occurrences;
- A requirement that the work be repeated;
- Assignment of a score of zero (0) for the specific demonstration of competence, resulting in the proportional reduction of final course grade;
- Assignment of a failing final grade;
- Referral to the Office of Judicial Affairs for possible probation, suspension, or expulsion.

Academic dishonesty cases that occur in the classroom shall be handled by faculty members. After a faculty member takes action, the faculty member shall complete a form that identifies the student who was found responsible, the nature of the offense, the action taken, and a recommendation as to whether or not additional action should be considered by the campus Judicial Affairs Office. The faculty member should send a completed “Student Academic Dishonesty Report” form to the Vice-President for Student Affairs, and shared with the Provost, whenever academic dishonesty cases are handled.

A student may appeal a final course grade the computation of which included an examination or other test of competence in which a score of zero was assigned for cheating or plagiarism, but only on the grounds permitted in the University Grade Appeal Policy Statement. An appeal of the final grade may include as written testimony the Report of the Academic Integrity Committee.

In implementation of the Executive Order from the Chancellor’s Office that requires documentation of faculty action regarding cheating and plagiarism, the Academic Senate revised the Cheating and Plagiarism Policy to include the following language: After action has been taken by the faculty member, the faculty member shall complete a form that identifies the student who was found responsible, the general nature of the offense, the action taken, and a recommendation as to whether or not additional action should be considered by the Office of Judicial Affairs. The complete form should be sent by the faculty member to both the provost and the vice-president for student affairs whenever cases of academic dishonesty are handled by the faculty member.

Disciplinary Sanctions – Administrative Action

Procedures and sanctions of the Office of Judicial Affairs are under the administration of the Vice President for Student Services and are conducted pursuant to the authority provided in Section 41301 of Title 5 of the California Administrative Code. Copies of Section 41301 of Title 5 may be found in the University Bulletin and the Campus Regulations available in the Office of Judicial Affairs. Copies of Chancellor’s Executive Order 148, “Student Disciplinary Procedures for the California State University” are also available upon request.

Opportunities for appeal regarding the sanctions applied by Vice President for Student Services are provided for students involved in the proceedings as outlined by Executive Order 148.

A summary of the charges concerning cheating and plagiarism report to the Vice President for Student Services. (PS 08-02)

Student Unit Load

Recommended Student Load

The faculty recognizes that it is frequently necessary for students to hold part-time jobs while attending the University. It advises that students enrolling under these conditions use good judgment in planning their programs. Students whose outside employment could be expected to interfere with the normal unit load should reduce their academic program accordingly.

The official unit limit per semester is 18 units. If it is necessary for students to exceed the 18-unit limit, students must complete an Extra Unit Petition form available on the Enrollment Services website.

Students are expected to spend, on the average, two hours of preparation and study for each hour of class time. Thus, a three-unit lecture or discussion course normally demands a commitment of nine hours per week averaged over the semester, with the class meeting for three hours a week. This may be considered sufficient time to enable a student to do satisfactory work. Students who desire to achieve "A" or "B" grades may wish to spend proportionately more time in their studies.
A student's employment and college time combined should not exceed 60 hours weekly. Students who make no allowances for their employment and outside obligations in planning their college programs will bear full responsibility for the resulting level of scholarship.

Minimum Unit Requirements for Students in Special Classifications

Veterans

Veterans should inquire at the Veteran’s Affairs Office (BH 226) about unit load requirements for state and federal benefits.

Graduate Students

For information about graduate student load, see regulations governing Master’s Degrees in this Catalog.

International Students

Undergraduate international students on non-immigrant visas must carry and complete a minimum of 12 units per semester unless a reduced load is authorized by the student’s advisor and the Center for International Education. Reduced unit loads may be granted for substantial academic reasons or compelling personal reasons beyond the control of the student. Failure to secure such authorization results in violation of student status under Immigration and Naturalization Service (INS) and State Department regulations, warranting discontinuance of enrollment.

Students with Disabilities

It is recommended that students with disabilities attempt to modify their schedules, as necessary, to lessen the impact of a disability. Students with disabilities may request to enroll in a unit load that is commensurate with their ability. Reduced unit load is defined as less than 12 units for undergraduates and less than 9 units for graduates. Such requests must be made to Disabled Student Services prior to each semester affected. If approved, the student will be entitled to all benefits, services, and activities governed by the University which are accorded to full-time students. Eligibility for benefits, services, and activities outside the University’s control will be governed by each external agency based upon actual unit load.

Student Load Regulations

I. Maximum Student Load during the Fall and Spring Semesters.

An undergraduate student carrying 12 or more units during the fall or spring semester is classified as a full-time student. A graduate or post-baccalaureate student carrying 9 or more units during the fall or spring semester is also classified as a full-time student. An undergraduate student carrying fewer than 12 units or a graduate or post-baccalaureate student carrying fewer than 9 units is classified as a part-time student.

These definitions derive from federal financial aid regulations and have no bearing on the definitions used by the State of California to determine a student’s liability for the State University Fee.

The maximum number of units a student may take during the fall or spring semester is normally 16 for undergraduate, graduate, or post-baccalaureate students. Exceptions to this limit will be made only on the basis of proven academic ability, the feasibility of a student’s proposed schedule, and the evidence that it is necessary to enroll for an overload in order to complete the student’s chosen academic program in a timely manner. Permission must be obtained prior to registration from the associate dean of the college of the student’s major department or, if an undeclared major, from the Academic Advising Center.

II. Maximum Student Load during the Summer Term

The maximum number of units a student may take during the summer term is one unit per week, plus one additional unit. Thus, the maximum number of units is normally 7 for one 6-week session, 10 for two overlapping sessions, and 13 for an entire summer.

Exceptions to this limit will be made only on the basis of proven academic ability, the feasibility of a student’s proposed schedule, and the evidence that the extra units will enable the student to graduate in that or the immediate subsequent term. Permission must be obtained prior to registration from the associate dean of the college of the student’s major department or, if an undeclared major, from the Academic Advising Center.

III. Maximum Student Load during the Winter Session

The maximum number of units a student may take during the winter session is one unit per week, plus one additional unit. Thus, the maximum number of units is normally 4.

Exceptions to this limit will be made only on the basis of proven academic ability, the feasibility of a student’s proposed schedule, and the evidence that the extra units will enable the student to graduate in that or the immediately subsequent term. Permission must be obtained prior to registration from the associate dean of the college of the student’s major department or, if an undeclared major, from the Academic Advising Center.

Course Listings

Courses are listed in this Catalog by department, the departments and programs being arranged alphabetically. Each listing gives the course number, title, semester units in parentheses, semester or session offered, and the course description, which includes prerequisites and other restrictions.

Course Numbers

Courses with a number of less than 100 do not count toward any degree program. For purposes of qualifying for financial aid, however, the unit value assigned to those courses will count for the semester in which those courses were taken. Lower-division courses are numbered from 100 through 299. These courses are designed primarily for freshmen and sophomores. They provide breadth of understanding and the foundation for the more specialized work in upper-division, advanced courses. Approved General Education courses are listed online and are offered at both the lower-division and upper-division levels; no upper-division General Education course may be used in a graduate degree program. Lower-division courses are open to junior, senior, and graduate students; however, lower-division courses may not be applied to any graduate degree program.
Upper-division courses are numbered from 300 through 499. These courses are open to students who have completed the prerequisites to the course, if any, stated in the course description and other departmental regulations given in this Catalog. A "Prerequisite" is a completed course or other measure of academic preparation which provides a foundation for the more advanced course.

Freshmen (fewer than 30 units) are not allowed to enroll in upper division courses without permission of the instructor. Sophomores wishing to enroll in upper division courses which indicate no prerequisites should consult with the course instructor or other knowledgeable advisor prior to enrollment. These courses are presented to meet the expectations of academically advanced students. Freshmen and Sophomores should not attempt courses with numbers proceeded by an asterisk.

Certain 400-level courses are double-numbered with 500-level courses. In these courses the expectations of graduate students, who must enroll in the 500-level course, are greater than the expectations of undergraduates. Grading scales are different for the 500-level course, and additional work is required of graduate students. A student may not earn credit for both the 400- and 500-level versions of a course.

Graduate-level courses are numbered from 500 to 799. Courses numbered 500-599 may be opened to senior students upon favorable petition. Courses numbered from 600 to 799 are open only to graduate students.

Included with some of the course numbers is a supplementary letter, or suffix, such as L for "Laboratory" or A and B for a year-long sequence. "A-B" means that the courses must be taken in alphabetical sequence; "A,B" designates related courses which need not be taken in sequence. The student is given degree credit for each part of the sequence satisfactorily completed, whether or not the remaining part of the sequence is completed. Funding, student demand, and instructor availability may require that a course be offered in a different semester or session or be postponed until a later academic year. F indicates Fall Semester, S indicates Spring Semester, W indicates Winter Session, and SS indicates Summer Session. The online class schedule appropriate to the semester or session in question should be consulted for actual course scheduling information. Some of the courses offered during the fall and spring semesters are also offered during the summer session.

The University reserves the right to make changes in course offerings without notice.

Course Credit Units and Modes of Instruction

Course Credit Units

Each course has a specific credit unit value which is indicated in parentheses following the course titles in this Catalog.

In accordance with national standards, each semester unit corresponds to approximately 45 hours of work per semester, counting both class meeting time and outside preparation and study. For a traditional lecture or discussion course, this means that the class will meet one hour a week for every unit in a fall or spring semester (15 weeks of class meetings). For a laboratory or activity course, the class may meet two or three hours per week for every unit.

The instructional "hour" is fifty minutes long, allowing for transit between classes and rest breaks within multi-hour classes.

Classes scheduled in the six-week summer session, or in a three-week summer or winter session, are scheduled for additional class hours per week so that the total meeting time is the same as in a fall or spring semester. Classes taught by other modes of instruction are expected to require the same time commitment as traditionally-scheduled classes.

Hybrid Classes and Distance Education Classes

Some classes use academic technology to replace part or all of the face-to-face class meetings. In a hybrid class, one-third to two-thirds of the student/faculty and student/student contact time uses academic technology to structure remote activities. The remaining communication is face-to-face, similar to traditional classes. A Local Online Class (LOC) is a course offering in which the majority of the instruction occurs when the student and instructor are not in the same place, but it may require up to two hours of face-to-face meetings per unit on the California State University, Long Beach campus within the given semester. A Distance Education Class is a course offering in which communication between faculty and student occurs primarily via academic technology, but it may also include off-site meetings. The mode of instruction is indicated in the online class schedule for each term. (PS 03-11)

Student Rights Relative to Course Instructional Mode

1. Student access to the faculty shall not be reduced by the instructional mode of a class.
2. The University shall make every effort to inform students of the mode of instruction and technological requirements of a course offering before the student enrolls in the class.
3. Matriculated students enrolled in non-traditional classes shall have access to the on-site academic advising services at California State University, Long Beach.
4. All students have equal access to the University library and other on-line learning resources offered at California State University, Long Beach.
5. Students in non-traditional classes shall have reasonable support services. These include:
   A. Phone-based and online technology help to handle student questions and to refer students to appropriate available services for hybrid and local online or distance education courses;
   B. Online and phone-based access to university administrative services;
   C. Online dissemination of information describing the resources available for obtaining the technical competence needed to succeed in a specific course offering;
   D. Online access to the library research databases and other research-related resources.
6. The University shall provide adequate technical support for academic technology.

Credit for Independent Study Courses

Each student enrolled in a supervised independent study, research, or reading course (excludes thesis courses) must have an agreement on file in the department office where the course is offered. The agreement is to be made between the student and the instructor at the beginning of the course, and must include the following: a description of the work to be accomplished, specific information on the tasks required, the nature of the final report, and the basis for determining the final grade. The agreement must be signed by both the instructor and the student.
If a department wishes to use a written agreement different from the standard university form, it must be approved by the dean of the appropriate college prior to its use.

No independent study credit shall be awarded for classroom instruction, assisting in classroom instruction, or for other instructionally related activities, such as grading.

Credit for Cross-Listed Courses

Certain courses are listed in this Catalog under more than one department. For purposes of awarding credit, all such listings are considered to be the same course, and a student may receive credit for only one of the listings. Normally, students will receive credit for such a cross-listed course in the department under which they register for it.

Transfer Credit

Students who were in good standing at another accredited institution may, within limitations, transfer credit for baccalaureate or graduate degree course work. Course equivalency for major requirements must be determined.

Students are cautioned that the University is under no obligation to accept transferred courses for subject credit in addition to unit credit for admission. Normally, however, there is a probability that courses in the accepted core of a discipline will be exchangeable between universities. Policy regarding transfer of courses from California community colleges differ in some respects.

Transfer of Undergraduate Credit From Accredited Community Colleges

A maximum of 70 semester units earned in a community college may be applied toward the baccalaureate degree, with the following limitations and stipulations:

1. No upper-division credit may be allowed for courses taken in a community college;
2. No more than six semester units in education courses taken in a community college may be applied toward the baccalaureate degree or the professional preparation requirements of a teacher education basic credential program;
3. Individual program regulations may include specific transfer limitations;
4. Students who transfer general education certification are still required to complete at least 9 units of upper-division courses at the campus conferring the degree.
5. Any course taken at community colleges can substitute for general education breadth requirements and lower-division requirements, if the course is approved as equivalent to the appropriate CSULB course. Students with more than 70 transferable units from community colleges will get subject matter credit for all such courses, but no more than 70 units will count toward graduation.
6. All transferable units taken at community colleges will count toward computation of the overall major grade-point average. All transferable units in the major taken at community colleges will count toward computation of the overall major grade-point average.

Extension Credit

A maximum of 24 semester units of Special Sessions course credit, taken as a nonmatriculated student may be accepted toward a baccalaureate degree. Extension credit may not be used to fulfill the minimum 30-unit residence requirement.

Courses offered through UCES conferring Continuing Education Unit credit (CEU) carry no degree credit.

Open University/Special Session

The Open University program allows enrollment in regular university credit courses for those who are not currently admitted to and/or matriculated at CSULB. Enrollment is on a "space available" basis, subject to the approval of the instructor and the department chair concerned.

No more than 24 units of Special Session course credit earned through Open University or UCES Special Sessions course offerings at CSULB in non-matriculated status may count toward any undergraduate degree requirement.

Students are considered in non-matriculated status in terms prior to the term of official admission to the degree granting program and during terms of disqualification from the degree granting program. There is no limit on UCES Special Sessions course credit, including Winter session, applicable to the degree if taken while in matriculated status in the degree program.

At the option of the appropriate college and department, up to six units of Open University Special Sessions credit may be applied to a graduate degree. By petition, this limit may be increased to nine units in some instances.

Baccalaureate Credit Based on Alternative Means of Assessment

The University grants credit toward the baccalaureate degree based on several types of assessment other than formal university courses. Students should consult the Chair or undergraduate advisor of the concerned department about applicability to individual courses or degree requirements.

Advanced Placement Credit

California State University, Long Beach grants credit toward its undergraduate degrees for successful completion of Advanced Placement (AP) examinations of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit for each AP course. Refer to the Advanced Placement Examination Credit table that follows for transfer credit awarded.

For the most up-to-date AP credit information, click the "Admission" icon on the CSULB Enrollment Services Web page, and follow the links under "Freshmen" or "Transfer".

<table>
<thead>
<tr>
<th>ADVANCED PLACEMENT EXAMINATIONS CREDIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Exam</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>Art History</td>
</tr>
<tr>
<td>Art Studio</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Drawing Portfolio</td>
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<tr>
<td>Biology</td>
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<td></td>
</tr>
<tr>
<td>Chemistry</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
</tr>
<tr>
<td>Computer Science B</td>
</tr>
<tr>
<td>Economics: Macro</td>
</tr>
<tr>
<td>Micro</td>
</tr>
<tr>
<td>English: Language &amp; Composition</td>
</tr>
<tr>
<td>Literature &amp; Composition</td>
</tr>
<tr>
<td>Environmental Science</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>French: Language</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>French: Literature</td>
</tr>
<tr>
<td>German: Language</td>
</tr>
<tr>
<td>Geography: Human Geography</td>
</tr>
<tr>
<td>History: United States</td>
</tr>
<tr>
<td>European</td>
</tr>
<tr>
<td>World History</td>
</tr>
<tr>
<td>Italian</td>
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<tr>
<td></td>
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<tr>
<td>Japanese Language and Culture</td>
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<td></td>
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<td></td>
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<tr>
<td>Latin: Vergil</td>
</tr>
<tr>
<td>Literature</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Mathematics Calculus AB*</td>
</tr>
<tr>
<td>Calculus BC</td>
</tr>
<tr>
<td>Music: Theory</td>
</tr>
<tr>
<td>Physics: Physics B</td>
</tr>
<tr>
<td>Physics C (Mechanics)</td>
</tr>
<tr>
<td>Physics C (Electricity &amp; Magnetism)</td>
</tr>
<tr>
<td>Political Science: United States Government &amp; Politics (1 semester)</td>
</tr>
<tr>
<td>Comprehensive Government &amp; Politics (1 semester)</td>
</tr>
<tr>
<td>Psychology (1 semester)</td>
</tr>
<tr>
<td>Spanish: Language</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Literature</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Statistics (1 semester)</td>
</tr>
</tbody>
</table>

Notes for Advanced placement:

*Credit is awarded for a 3-5 on the AP exam score or the AB subscore on the BC exam.

A maximum of 6 units will be granted for each exam. If the number of units per course equivalency exceeds 6, credit for 6 units will be awarded and the course waived. Credit can only be awarded once per course. Example: if a student takes Calculus AB & BC, only nine units can be awarded.
International Baccalaureate Credit

Students with scores of 5 or higher in International Baccalaureate Higher Level courses will be awarded baccalaureate credit of 4 to 10 units, depending on course equivalency. Applicants to CSULB who wish to obtain lower-division course credit for completed International Baccalaureate Higher Level examinations must submit an official IB transcript. Course equivalency for Higher Level examinations completed with a grade of 5 or higher is listed in the International Baccalaureate Examination Credit table that follows.

For the most up-to-date IB credit information, click the "Admission" icon on the CSULB Enrollment Services Web page, and follow the links under "Freshmen" and "Transfer".

### INTERNATIONAL BACCALAUREATE HIGHER LEVEL EXAMINATIONS CREDIT

<table>
<thead>
<tr>
<th>IB Exam</th>
<th>IB Score</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts, Visual</td>
<td>5, 6, or 7</td>
<td>ART electives - 4 units</td>
</tr>
<tr>
<td>Arabic A2</td>
<td>5, 6, or 7</td>
<td>4 units ARAB electives</td>
</tr>
<tr>
<td>Arabic B</td>
<td>5, 6, or 7</td>
<td>ARAB 201B - 4 units</td>
</tr>
<tr>
<td>Biology</td>
<td>5, 6, or 7</td>
<td>BIOL 202 - 4 units, &amp; 2 units BIOL electives</td>
</tr>
<tr>
<td>Business &amp; Management</td>
<td>5, 6, or 7</td>
<td>CIMA electives - 4 units</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5, 6, or 7</td>
<td>CHEM 111A - 5 units, &amp; 1 unit CHEM elective</td>
</tr>
<tr>
<td>Chinese A2</td>
<td>5, 6, or 7</td>
<td>CHIN 401 - 3 units, &amp; 1 unit upper division CHIN elective</td>
</tr>
<tr>
<td>Classical Greek</td>
<td>5, 6, or 7</td>
<td>GK 101A - 4 units, &amp; GK 101B - 4 units</td>
</tr>
<tr>
<td>Computing Studies</td>
<td>5, 6, or 7</td>
<td>ECES electives - 4 units</td>
</tr>
<tr>
<td>Economics</td>
<td>5, 6, or 7</td>
<td>ECON 101 - 3 units, &amp; ECON 101 - 3 units</td>
</tr>
<tr>
<td>English A1</td>
<td>5 or 6</td>
<td>ENGL 100 - 3 units &amp; ENGL 180 - 3 units</td>
</tr>
<tr>
<td>English A2</td>
<td>5, 6, or 7</td>
<td>ENGL elective credit - 4 units</td>
</tr>
<tr>
<td>French A2</td>
<td>5, 6, or 7</td>
<td>FRAN 312A - 3 units, &amp; FRAN 312B - 3 units</td>
</tr>
<tr>
<td>Geography</td>
<td>5, 6, or 7</td>
<td>GEOS 100 - 3 units, &amp; 1 unit GEOS elective</td>
</tr>
<tr>
<td>German A2</td>
<td>5, 6, or 7</td>
<td>GERMAN 301 - 4 units, &amp; GERMAN 302 - 4 units, &amp; 2 units upper division</td>
</tr>
<tr>
<td>German B</td>
<td>5, 6, or 7</td>
<td>GERMAN 301 - 4 units, &amp; GERMAN 302 - 4 units</td>
</tr>
<tr>
<td>History of Africa</td>
<td>5, 6, or 7</td>
<td>4 units HIST electives</td>
</tr>
<tr>
<td>History of the Americas</td>
<td>5, 6, or 7</td>
<td>6 units HIST electives</td>
</tr>
<tr>
<td>History of Asia</td>
<td>5, 6, or 7</td>
<td>4 units HIST electives</td>
</tr>
<tr>
<td>Islamic World</td>
<td>5, 6, or 7</td>
<td>4 units of electives</td>
</tr>
<tr>
<td>ITAL 312A</td>
<td>5, 6, or 7</td>
<td>ITAL 312A - 3 units, &amp; ITAL 312B - 3 units, &amp; ITAL 311 - 3 units</td>
</tr>
<tr>
<td>Italian B</td>
<td>5, 6, or 7</td>
<td>ITAL 312A - 3 units, &amp; ITAL 312B - 3 units, &amp; ITAL 314 - 3 units</td>
</tr>
<tr>
<td>Japanese A2</td>
<td>5, 6, or 7</td>
<td>JAPN 401 - 3 units, &amp; JAPN 302 - 3 units</td>
</tr>
<tr>
<td>Japanese B</td>
<td>5, 6, or 7</td>
<td>JAPN 301 - 4 units, &amp; JAPN 302 - 4 units</td>
</tr>
<tr>
<td>Koran B</td>
<td>5, 6, or 7</td>
<td>KOR 102 - 4 units</td>
</tr>
<tr>
<td>Latin</td>
<td>5, 6, or 7</td>
<td>LAT 301 - 3 units, &amp; 3 units of upper division Latin elective</td>
</tr>
<tr>
<td>Multi - Higher Level</td>
<td>5, 6, or 7</td>
<td>MATH 114 - 3 units, &amp; MATH 127 - 4 units</td>
</tr>
<tr>
<td>Music</td>
<td>5, 6, or 7</td>
<td>MUS 169 - 3 units, &amp; MUS 490 - 3 units</td>
</tr>
<tr>
<td>Philosophy</td>
<td>5, 6, or 7</td>
<td>PHE 100 - 3 units, &amp; 1 unit PHE elective</td>
</tr>
<tr>
<td>Portuguese A2</td>
<td>5, 6, or 7</td>
<td>PORTH 101 - 4 units</td>
</tr>
<tr>
<td>Psychology</td>
<td>5, 6, or 7</td>
<td>PSY 100 - 3 units, &amp; 1 unit PSY elective</td>
</tr>
<tr>
<td>Russian A2</td>
<td>5, 6, or 7</td>
<td>RUS 312 - 5 units, &amp; RUS 314 - 3 units</td>
</tr>
<tr>
<td>Russian B</td>
<td>5, 6, or 7</td>
<td>RUS 312 - 5 units, &amp; RUS 314 - 3 units</td>
</tr>
<tr>
<td>Social and Cultural Anthropology</td>
<td>5, 6, or 7</td>
<td>4 units ANTH electives</td>
</tr>
</tbody>
</table>
Credit for Other External Examinations

In addition to the Advanced Placement and International Baccalaureate Examinations, California State University, Long Beach grants unit credit to those students who pass the following examinations that have been approved for credit by the CSU system: the College Level Examination Program (CLEP) examinations in College Algebra - Trigonometry, Calculus/Elementary Functions, French, General Chemistry, German, and Spanish; and the American Chemical Society Cooperative Examination. (PS 87-04)

Unit Credit by Examination

Students may also challenge some courses by taking examinations developed at the campus. Credit will be awarded to those who pass them successfully. Credits earned in this manner will be recorded on the student’s transcript and will be counted toward the total number of units required for the degree although they will not be included in calculation of the grade-point average. Credit by examination may not be used to fulfill the minimum residence requirement.

Students must be enrolled in the University and in the course for which they wish to receive credit by examination. Enrollment is by permission of the department and is only available during the academic semester in which the course is being offered. Students must secure a signed and dated approval form from the department prior to enrolling in the course. Students must provide the instructor with a copy of the signed and dated approval form at the first class meeting. The instructor will ensure that the examination is conducted, scored, and the results reported prior to the end of the third week of classes. Students who pass the examination will receive academic credit for the course work. Students who do not pass the examination have two options:

1. continue in the course as a regular student; or
2. withdraw from the course.

The University sets no maximum on the number of credits a student may receive by examination. Not all courses, however, are available for credit by examination. Information about courses for which credit by examination is permitted is available in the Department Office, in the College Office, and the Office of Enrollment Services. A student may not receive credit by examination:

1. for an activity course;
2. for any course which is a prerequisite to one for which credit has been received, (see department for possibility of course waiver),
3. to remove a grade of "F," "U," "NC;"
4. to satisfy the courses required for a major in a master’s degree.
5. for any course in which the content or methodology is such that an examination does not appropriately measure competence.

Application forms to apply for credit by examination are available in the Office of Enrollment Services. Procedures and criteria for requesting unit credit by examination in a given course are available in the appropriate department office. (PS 87-04)

Substitution of Courses

Students who believe that a course they have taken (or intend to take) may be appropriate to their program and that this course could substitute for a specified course requirement may request that the department submit an official authorization for substitution. Course substitutions are normally limited to cases where the required course cannot be offered or where the student has taken a similar but not identical course elsewhere. (PS 87-04)

Waiver of Course Requirement

In addition, students who believe that previous training has sufficiently prepared them in a certain area may request a waiver of a specific course requirement (subject credit only). The student will be required to justify the request in a way acceptable to the department. A waiver of specific course requirements does not reduce the total number of credits required for the major or the degree. (PS 87-04)

International Program Credit

Course credits earned in universities abroad may be accepted for degree credit at CSULB subject to evaluation by the cognizant department or program upon admission of the student to the University. CSULB students who desire, subsequent to admission, to take courses at a foreign university for degree credit must have each such course approved in advance in writing by the Chair of the appropriate department or program.

The Center for International Education administers many international education and exchange programs. Students fully accepted into one of those programs may, in most cases, continue CSULB residency while studying in the approved foreign institution. Some courses taken through those programs do not have to be approved in advance.

Credit for Noncollegiate Instruction

The California State University, Long Beach grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, that 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.

Grades and Grading Procedures

Part One: Definitions

The following definitions apply to final course grades assigned in all undergraduate and graduate courses:

"A" - Performance of the student has been at the highest level, showing sustained excellence in meeting all course requirements and exhibiting an unusual degree of intellectual initiative.

"B" - Performance of the student has been at a high level, showing consistent and effective achievement in meeting course requirements.

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"C" - Performance of the student has been at an adequate level, meeting the basic requirements of the course.

"D" - Performance of the student has been less than adequate, meeting only the minimum course requirements.

"F" - Performance of the student has been such that minimal course requirements have not been met.

"CR/NC" - In some courses, the university permits students to select evaluation on a "Credit" or "No Credit" basis. 

These grades are defined as follows:

"CR" is equivalent to an "A," "B," or "C," and "NC" is equivalent to a "D," "F," or "WU" (defined below). In two circumstances a final course grade of "CR" reflects work at the level of "B" or better, and a final course grade of "NC" reflects work at the level of "C," "D," "F," or "WU." These two circumstances are:

1. In certain professional preparation courses, providing that the students are notified of such a policy both in class materials and in the catalog course description; and
2. For graduate students in all courses at the 300, 400, 500, and 600 levels.

Special regulations and procedures governing the "CR/NC" grading system are described below in Part Two.

The following definitions apply to administrative grading symbols assigned in all undergraduate and graduate courses:

"AU" - "Audit." Enrollment as an auditor is subject to permission of the instructor, provided that enrollment in a course as an auditor shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. It is the responsibility of the student to request from the instructor what is meant by regular class attendance. The symbol "AU" is posted to the student's permanent academic record unless the student fails to attend a sufficient number of class meetings. In these cases, the instructor will request that the student be administratively withdrawn from the course. Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes. A student who is enrolled for credit may not change to "Audit" after the last day to add classes.

"I" - "Incomplete." The symbol "I" (Incomplete Authorized) indicates that a portion of required course work (normally not more than one-third) 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 attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the "Incomplete." A final course grade is assigned when that work has been completed and evaluated.

An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an "I" being converted to an "F," except as noted in item 3 below. An extension of time may be granted for contingencies such as military service or documented, serious health or personal problems.

The conditions for removal of the "Incomplete" shall be reduced to writing by the instructor on an "Assignment of Incomplete Grade" form. This form shall include a statement of:

1. all work completed in the course, the grades assigned for that work, and the percentages of the final course grade accounted for by each item;
2. the work not completed and the percentage that each uncompleted assignment will count toward the final course grade; and
3. the final course grade the instructor will assign if the course requirements are not completed within one calendar year, or a shorter period as specified on the form, immediately following the term in which the "I" was assigned, without respect to continuous enrollment of the student during this period.

If clear percentages for assignments cannot be delineated, instructors shall explain any special conditions for determining final course grades for work wholly or partially made up.

A copy of the form is to be given to the student, a copy is to be retained in the department office, and a copy is to be filed with the Office of Enrollment Services at the time final course grades are submitted. Normally, the student should sign the "Assignment of Incomplete Grade" form. If the student is eligible for an "Incomplete," a faculty member may assign an "I" even when the student cannot be present to sign the form. In such a case, the instructor will forward to the student a copy of the form via the department office. When the work agreed upon has been completed and evaluated, a final course grade will be assigned by the instructor. If an "Incomplete" is assigned without an "Assignment of Incomplete Grade" form attached, or with a form that is not filled in acceptably, the symbol of "WU" will be assigned to the student. The "Assignment of Incomplete Grade" form will be considered unacceptable if:

1. more than one-third of the work remains to be completed, and no justification has been provided;
2. the work required to complete the course has not been specified;
3. the faculty member failed to sign the form; or
4. the percentage grades have not been filled in and a justification for their absence has not been supplied.

The appropriate associate dean of the college shall determine whether or not the justification is adequate. Notice of the missing form, or a copy of the unacceptable form will be sent to the department chair with the request that the chair work with the faculty member to provide the information necessary to assign the final course grade of "Incomplete."
The symbol does not imply any academic evaluation. If an instructor fails to report a grade for an individual student, Enrollment Services will assume that an "I" could not be assigned and so will enter a symbol "WU," discussed below.

"RP" - "Report in Progress". The "RP" symbol is used in connection with courses requiring multiple enrollment, i.e., that extend beyond one academic term. It indicates that work is in progress but that assignment of a final course grade must await completion of additional work. Re-enrollment is permitted prior to assignment of a final course grade provided the cumulative units attempted do not exceed the total number applicable to the student's educational objective. Work is to be completed within one (1) calendar year immediately following the end of the term during which it was assigned except for graduate degree theses. If the "RP" symbol is not replaced by a final course grade within the specified time period or prior to the student's declared graduation date, it will be changed to a "W." An "RP" symbol cannot be replaced by an "F" (Incomplete) symbol; an "F" is not a final course grade.

"W" - "Withdrawal". Withdrawal from classes is discussed in more detail in this section of the Catalog. The symbol "W" is used to signify that a student formally withdrew from the course; no reference or implication of passing or failing progress at the time of withdrawal is made or implied. The symbol "W" is not a grade and does not alter a student's grade point average.

"WU" - Unauthorized Withdrawal. The symbol "WU" indicates that an enrolled student did not complete course requirements but did not withdraw from the course. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of the student's academic performance possible (letter grades "A" - "F" or an "Incomplete"). For purposes of grade point average, this symbol is equivalent to an "F." A student who receives a "WU" may not complete additional work and have the "WU" changed to a letter grade. In courses that are graded "Credit/No Credit" or in cases where the student has elected "Credit/No Credit" evaluation, use of the symbol "WU" is inappropriate and "NC" will be used instead. A student who receives the symbol "WU" in the first semester of enrollment at CSULB will have that symbol automatically changed to a "W." In such cases the student will be notified that this policy applies for that first semester at CSULB only.

Part Two: Course Grading Option

The faculty determines in advance which courses may be taken for "A" - "F" grade only, "CR/NC" only, or either. When a course is designated for "CR/NC" grading only or for "A" - "F" grading only, mention of this fact shall be incorporated in the catalog course description. Any undergraduate course may be designated for or closed to the option of "CR/NC" grading whether or not the course is a requirement for an undergraduate degree major, minor, certificate, credential, or concentration.

No course in which a final course grade of "CR" has been assigned may be used to fulfill the requirements for a master's degree, except that the final course grade of "CR" may be permitted for master's theses or projects (to a maximum of six (6) units) when the individual department has specifically designated "CR/NC" grading for the thesis/project course in the department, and for fieldwork, practicum, and/or internship courses (also to a maximum of six (6) units). The option of "CR/NC" grading for graduate students in undergraduate courses is subject to specific regulations of the individual departments regarding their graduate students and regarding the authorization for this option intrinsic to the approved course. Otherwise, no limitation exists as to the number of courses taken by graduate students under this policy. An undergraduate student may elect "CR/NC" grading in no more than a total of 24 units, of which no more than twelve (12) may be upper division units. No more than eight (8) units per semester may be taken for "CR/NC" grades. Exemptions from these limitations are:

1. courses graded "CR/NC" taken at another institution,
2. course credit earned by examination, and
3. courses in which "CR/NC" grading is the only form of grading.

The decision to elect the "CR/NC" grading option for a course must be made by the last day to add classes. To elect "CR/NC" grading, the student must obtain the signature of the student's major advisor and a stamp from the department/program in which the course is offered on the appropriate form. The student must then file the signed form with the Office of Enrollment Services. The decision to register for a course on a "CR/NC" basis remains in effect unless a change is requested prior to or on the last day to add classes.

The only exception to this rule is for students who declare new majors after the last day to add classes. If the newly declared major requires letter grading for the course in question and the student has elected "CR/NC" grading, then the student may request that "A" - "F" grading be used. Such a change must be requested no later than the last day of instruction. The grading option may not be changed after the end of the semester.

Part Three: Final Assessments

1. Every course except Distance Learning Courses shall meet and have an educational experience at the date and time listed in the Final Examination Schedule.
2. Every course shall have a final assessment appropriate to the course that shall cover a significant proportion of the course.
3. All instructors shall administer the final assessment (e.g., an exam or presentation) or have it due (e.g., a paper or project) at a specified time that falls within the date and time listed in the Final Examination Schedule, as part of the course or as an additional educational experience.
4. The college dean must approve any exception to these requirements.

Part Four: Assignment of Final Course Grades

1. The instructor of record in a course section (i.e., the faculty member officially assigned to teach that section) has the exclusive responsibility and authority to assign final course grades to all students in that section, subject only to the following exceptions:
A. should the instructor of record be unable or unwilling to complete this task because of death, disability, separation of employment, or prolonged absence from campus during a regular academic term, the department chair or program director, following notification of the instructor of record where appropriate and with the approval of the college dean, may appoint another instructor with the most appropriate qualifications in the discipline to complete the assignment of final course grades; or
B. in the event of a successful grade appeal (detailed below in Part Five: Change of Final Course Grades).

2. Final course grades shall be based on at least three (3), and preferably four (4) or more, demonstrations of competence by the student. Exceptions require the college dean’s approval.

3. In no case shall the grade on any single demonstration of competence count for more than one-third of the final course grade. Exceptions require the college dean’s approval. This provision does not abridge a faculty member’s right to assign a course grade of “F” for a single act of cheating.

4. At the start of the course and in keeping with PS 04-05 (Course Syllabi), instructors shall provide to their students in writing the grading policies and practices to be employed in the class and the rules that will apply to withdrawals.

5. Instructors shall keep a record of students’ scores on each of the demonstrations of competence on which the final course grade is based.

6. Instructors shall provide students with an opportunity for demonstration of competence, relevant to the determination of their final course grade in the course, as early as is reasonable and no later than the midpoint of the term.

7. Students have a right to be informed promptly of their scores and to review each of their demonstrations of competence with their instructors.

8. If materials submitted for a demonstration of competence are not returned, those materials will be retained for at least two (2) subsequent semesters by the instructor. The materials shall be accessible to the department office. In the absence of the original instructor, an instructor with appropriate qualifications may be appointed by the Chair to review the demonstration of competence with the student.

9. Grades reported to the Office of Enrollment Services are considered to be official and final course grades.

(PS 08-10)

Part Five: Change of Final Course Grades

1. Changes of final course grades or grading symbols can be made only on the basis of an error, a successful grade appeal (detailed in the separate policy statement on Grade Appeals), or resolution of an “Incomplete” (“I”). A final course grade or grading symbol shall not be changed on the basis of additional work submitted, except where an “I” was recorded.

2. Original final course grades are replaced only when the change is due to an error, the grade change is the result of a grade appeal, or Enrollment Services receives a late report of final course grades for which the symbol “RD” was substituted pending receipt. Original final course grades or grading symbols are not replaced when the change of grade is the result of the resolution of an “Incomplete” or the repetition of a course. Final course grades or administrative grading symbols must be recorded for all enrollments beyond the census date.

3. Except for changes of final course grades resulting from grade appeals, all changes of final course grades must be filed within one year from the date of the filing of the first final course grade, without respect to continuous enrollment of the student. Only as the result of a successful grade appeal or the correction of an error will a final course grade be changed after the award of a degree or credential or certificate.

4. All requests for change of a final course grade shall carry the recommendation of the instructor (except as provided for in the Grade Appeals Procedures) and the department chair and the approval of the college dean.

Final Course Grades

Final course grades will be available via “MyCSULB” approximately two to three weeks after the end of each semester or session.

Student Grade Record

A record is kept and grade or administrative symbol notations are indicated for all enrollments beyond the second week of instruction.

Repeating Courses

In most cases a student may not take or receive unit credit for a course for which the student has already received a CR or a grade of C or better. This principle applies whether the course was initially taken at CSULB, at a high school, or at another college or university. The only exceptions to this rule are: (1) when a course has been specifically designated as repeatable for credit up to a specific maximum number of units (there may also be other limitations, such as a requirement that each repetition be with a different instructor and/or on a different topic); (2) activity courses; (3) upper-division courses in an undergraduate student's major completed more than ten years prior to the student’s graduation; and (4) courses on a graduate student’s program of study taken more than seven years prior to graduation. (PS 90-17)

Repetition of Courses for Satisfactory Grade

(Repeat and Delete)

Undergraduate students and postbaccalaureate students who are pursuing a second (or subsequent) baccalaureate degree may repeat, for the purpose of excluding the grade from grade-point determination, an undergraduate course taken at California State University, Long Beach in which a grade of "D", "F", "U", or "WU" was received. Postbaccalaureate students pursuing credential programs, certificate programs, or master’s degrees are not eligible for the Repeat and Delete policy.

Eligible students may repeat a course once for the purpose of deleting a grade, without prior departmental approval, if the course was taken both times at CSULB. If the second attempt of the course is successful (“C” or better), the deletion of the first attempt is automatically calculated at the end of the semester in which the course was repeated. Although the first grade will remain on the permanent record, the grade and grade points of the repeated course on the second attempt will be those used in determining the grade-point average and units earned, provided the second grade was C or better.

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Students are not prohibited from continuing to repeat a course in which the grade for the second attempt is unsatisfactory ("D", "F", "U", "WU"), but, in that case, grades earned for all attempts will remain in the grade-point determination, and the units earned in the course will be applied to the degree only once. While there is no time limit for repealing a course, the student's permanent record may not be altered after a degree has been granted.

If students wish to exclude from grade-point determination a grade of "D", "F", "U", or "WU" in a course taken at another institution, they may do so by enrolling in an equivalent course at CSULB. A "Notice of Intent to Repeat a Transfer Course" form must be filed with the Office of Enrollment Services. The department in which the course is taught must indicate on the form which particular course may be repeated to delete the previous grade. An official transcript from the institution where the original course was taken must accompany the form. Only one request is allowed for the purpose of deleting a grade, and the repeated grade and grade points will be used in the overall grade-point determination, provided the second grade was C or better.

A grade received in a course taken at another institution may not be used to delete a grade in an equivalent course taken at CSULB.

**Grade Appeals**

Although the University presumes that grades assigned are correct, the University has established a grade appeal procedure to both protect students against academic and administrative evaluations and decisions that are prejudicial, capricious, or arbitrary, and to preserve the authority of instructors to evaluate student work in a non-prejudicial, objective, and consistent way. This procedure is available equally to undergraduate and graduate students. A student wishing to file a grade appeal should consult the policy document (PS 99-16) for detailed information.

Students who believe they have received a final course grade that reflects prejudicial, capricious, or arbitrary grading of their academic performance must make this belief known to the instructor(s), either orally or in writing, before they begin the formal appeal process. If students and instructors are not able to resolve the problem to the satisfaction of both parties, the formal process may then be initiated.

The formal process must begin no later than the end of the fall or spring semester following the term in which the final grade was assigned. It begins with the preparation of a grade appeal file which must include: (1) a written statement addressed to the Department/Program Chair of the discipline in which the course resides describing the reasons for the appeal and the recommendation for a new grade, (2) a Grade Appeal form obtained from the appropriate College office and fully completed, and (3) supporting documents that show evidence of the alleged improper grading. The burden of proof rests upon the student submitting the appeal.

If the student's appeal is compounded (or accompanied) by an allegation of unlawful discrimination as defined by Federal and State laws, the student has the right to access the university's internal Unlawful Discrimination process and the processes available through the U.S. Department of Education Office of Civil Rights and the State of California Fair Employment and Housing Commission. However, grades may be changed only through the grade appeal process.

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**Scholastic Probation and Disqualification**

**Academic Probation**

Undergraduate students are placed on academic probation if at any time their cumulative grade-point average in all college work attempted or their cumulative GPA at California State University, Long Beach falls below 2.0 (C). Graduate students are placed on academic probation when their cumulative grade-point average or grade-point average on all courses applicable to the degree falls below 3.0. Other post-baccalaureate students are placed on academic probation when their cumulative grade-point average falls below 2.5.

Undergraduate students will be removed from academic probation when their cumulative grade-point average in all college work attempted and their cumulative grade-point average at California State University, Long Beach is 2.0 (C) or higher. Students who remain on academic probation for more than two consecutive semesters are subject to academic disqualification. Students actively participating in an intervention program may request an extension of time to achieve a 2.0 GPA. Such extension will be granted if the student is making progress toward the degree.

Graduate students will be removed from academic probation when their overall grade-point average and grade-point average on all courses applicable to the degree are 3.0 (B) or higher. Other post-baccalaureate students will be removed from academic probation when their overall grade-point average is 2.5 or higher. (PS 02-07)

**Strategies for Academic Success Program (Academic Probation Intervention)**

This is a university-wide program designed for undergraduate students who are on academic probation (either the CSULB or all college cumulative grade-point average is below 2.0). The program includes information about university policies and procedures, the reasons students encounter academic problems, and, lastly, how and where to receive assistance from campus services and offices to be a successful student.

Any undergraduate whose CSULB or overall cumulative grade-point average (GPA) is below 2.0 may participate in the program. Declared graduate students and credential candidates who are on probation should contact their department for information and assistance.

Attendance in this program is not mandatory but it is highly recommended.

If you would like more information or if you would like to sign up for a workshop please call us at (562) 985-7874 or stop by the Academic Advising Center, located in Horn Center, Room 103. Workshops are scheduled at a variety of times during each semester.

Graduate and post-baccalaureate students are subject to disqualification if while on probation they fail to earn grades of sufficient quality to remove themselves from probationary status. Disqualification will bar such students from any further enrollment at the campus.

**Administrative — Academic Probation**

An undergraduate or graduate student may be placed on administrative-academic probation by action of appropriate campus officials for any of the following reasons:

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1. Withdrawal from all or a substantial portion of a program of studies in two successive semesters or in any three semesters;
2. Repeated failure to progress toward the stated degree objective or other program objective (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 which is routine for all students or for a defined group of students (example: failure to take placement tests, failure to complete a required practicum).

**Academic Disqualification**

Undergraduate students on academic probation are subject to academic disqualification:
1. As freshmen (fewer than 30 semester-hours of college work completed), if their grade-point average falls below 1.5 on all units attempted or on all units attempted at California State University, Long Beach;
2. As sophomores (fewer than 59 semester-hours of college work completed), if their grade-point average falls below 1.7 on all units attempted or on all units attempted at California State University, Long Beach;
3. As juniors (60 to 89 semester-hours of college work completed), if their grade-point average falls below 1.85 on all units attempted or on all units attempted at California State University, Long Beach;
4. As seniors (90 or more semester-hours of college work completed), if their grade-point average falls below 1.95 on all units attempted or on all units attempted at California State University, Long Beach; and
5. At any time, if the student remains on academic probation for more than 2 consecutive semesters (i.e., the cumulative GPA remains below 2.0 at the end of 2 consecutive semesters).

In addition to the above disqualification standards applicable to students on probation, individuals not on probation may be disqualified when the following circumstances exist:
1. At the end of any semester, if 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.

**Disqualification From Impacted Programs**

Students who fail to maintain an overall GPA of 2.0 will be immediately removed from an impacted major and placed in the undeclared category or in a general category appropriate to the discipline. To be reinstated as majors in the impacted program, they must reapply at the time when change-of-major requests are normally accepted.

**Administrative — Academic Disqualification**

Students who have been placed on administrative-academic probation may be disqualified from further attendance if:
1. The conditions for removal of administrative-academic probation are not met within the period specified;
2. The students become subject to academic probation while on administrative-academic probation;
3. The students become subject to administrative-academic probation for the same or a similar reason for which they have been placed on administrative-academic probation previously, although not currently in such status.

For students who subsequently become eligible for Reinstatement (see below), disqualification under the provisions of the preceding paragraphs constitutes a break in "continuous enrollment" within a degree major program; therefore, students disqualified may not elect regulations in effect prior to disqualification.

**Reinstatement**

In order to be considered for reinstatement to the University, a disqualified student must demonstrate progress toward the degree. This demonstration can be achieved by:
1. Completing courses through University College and Extension Services at CSULB; or
2. Completing classes at other regionally accredited academic institutions.

All classes considered for reinstatement in the student's petition must be applicable for degree credit and toward the student's General Education or major requirements.

Progress toward meeting the GPA requirement can be demonstrated by reducing the deficiency in grade-point average by one-half at CSULB or by making equivalent grades in courses taken at other regionally accredited academic institutions. Grades earned at other regionally accredited academic institutions will not reduce the deficiency in the CSULB grade-point deficiency. Grades earned elsewhere are only indicators of academic ability.

After reducing the deficiency in the CSULB grade-point average and/or demonstrating academic ability at other regionally accredited academic institutions, the student may petition the Academic Appeals Committee for reinstatement.

The petition must present evidence that the student is likely to achieve a satisfactory grade-point average and to complete requirements for the degree. The Academic Appeals Committee will only consider the petition for reinstatement of students who have remained outside of the university for at least one regular (fall or spring) semester after their dismissal. Disqualification from the University constitutes a break in residency and results in the loss of "catalog rights": reinstatement does not automatically restore those rights under the election of regulations.

Petition forms are available at the Office of Enrollment Services and must be filed by December 1 for the spring semester or August 1 for the fall semester. Petitions received after that date will be returned to the student to be submitted for consideration for a future semester.

**Academic Renewal**

A student may petition to have all grades and units received during one or two semesters of undergraduate work disregarded in the computation of GPA and academic standing. The work so disregarded may have been taken at any collegiate-level institution but no work taken during the disregarded terms, even if satisfactory, may apply toward baccalaureate requirements. All grades and units attempted will remain on record. At least 5 calendar years must have elapsed since the work in question was completed and the student must have subsequently completed 15 semester.
units with a 3.0 GPA (or 30 semester units with a 2.5 or 45 semester units with a 2.0) at this University before filing a request for disregard of the course work.

Petitions for disregard of course work must be submitted to the Office of Enrollment Services. Final determination will be made by the Vice President for Academic Affairs in consultation with the University Academic Appeals Committee. The petitioning student must certify that the work to be disregarded was not reflective of his or her present level of academic performance. This certification must include a statement explaining the extenuating circumstances causing the substandard performance during the term in question. The student must also provide evidence that it would be necessary to complete additional units and enroll for one or more additional semesters in order to qualify for the baccalaureate degree if the request were not approved.

(PS 75-07)

Academic Appeals

Students may petition for exception to academic policy. Typically, exception requests involve issues such as record errors, General Education substitutions or waivers, reinstatement, exceptions to the repeat/discard policy, and academic renewal.

Students can obtain the "Petition for Exception to Academic Policy" forms from the Office of Enrollment Services, Broman Hall Room 101, or the Academic Advising Office, located in Horn Center, Rooms 103. This written appeal will be directed to the Academic Appeals Committee. Petitions must be filed with the Office of Enrollment Services, BH-101.

Withdrawal Policy

Students are held responsible for completion of every course in which they register OR FOR WITHDRAWING DURING THE FIRST TWO WEEKS OF CLASSES FROM COURSES WHICH THEY DO NOT INTEND TO COMPLETE. Application for withdrawal from the University or from a class must be officially filed by the student at the Office of Enrollment Services whether the student has ever attended the class or not; otherwise, the student will receive a grade of "WU" (unauthorized withdrawal) in the course. Application for withdrawal is made at the Office of Enrollment Services.

Prior to withdrawing from classes, you should consider the consequences of this withdrawal action after the second week of the semester. This generally will impact your progress toward degree, possibly impact your future course enrollment (prerequisites) and financial aid eligibility. However, we understand that certain circumstances may necessitate the need for a change in class schedule at this time.

Be aware that after the second week of instruction, class withdrawals are permissible only for serious and compelling reasons. The definition of serious and compelling reasons as applied by faculty and administrators becomes more narrow as the semester progresses. Please be advised that poor academic performance or poor time management is not justification for withdrawing from classes. Although the grade of "W" is assigned during this time, it is not intended to be used as a mechanism to escape being awarded the grade you have earned.

When withdrawal involves a documented, serious medical condition that requires withdrawal from all classes, the student must complete the Medical Withdrawal Process. Your physician must submit a statement confirming your serious illness or injury. Students who have any questions regarding their decision to withdraw from a class should consult with their advisor as soon as possible.

Dropping classes during the first two weeks of instruction:

Students may drop during this period on MyCSULB and the course will not appear on their permanent records.

Withdrawal after the second week of instruction but prior to the final three weeks of instruction for fall/spring:

Withdrawals during this period are permissible only for serious and compelling reasons and require approval from the Instructor and Chairperson of the department of the class. The definition of "serious and compelling reasons" as applied by faculty and administrators will be defined more narrowly as the semester progresses. The grade of "W" is assigned during this time. Students must complete the "Petition to Withdraw from a Class(es)" form and submit to Enrollment Services as soon as possible but no later than the established deadline for that term.

Withdrawal during the final three weeks of instruction:

Withdrawals during the final three weeks of instruction are not permitted except for a very serious and compelling reason, such as accident or serious injury, that is clearly beyond the student's control and the assignment of an Incomplete grade is impractical (see Requirements for Assigning an Incomplete Grade). In almost all cases, withdrawal in the last 3 weeks of classes will involve total withdrawal from all classes due to the serious nature of the circumstances, i.e., a documented, serious medical condition that requires withdrawal from all courses; the documented death of an immediate (not extended) family member; a call from reserve to active military service; etc. Usually, withdrawals in this category will involve total withdrawal from all classes due to the serious nature of the illness or injury and is accomplished by using the Medical Withdrawal Procedure.

If the basis for the request cannot be substantiated by medical documentation or is only a partial withdrawal, the student should complete the "Petition to Withdraw from a Class(es)" including the Addendum. In the addition, the student must provide appropriate documentation to substantiate the request. Due to the unusual nature of these requests, approval for withdrawal from a course in the final 3 weeks not meeting the Medical Withdrawal criteria is required from the instructor, chairperson of the department of the class, the dean of the college in which the class is taught, and the Office of the provost. Instructors, department chairs and deans must consider the request carefully and approve withdrawal only for serious and compelling reasons beyond the student's control. Since petitions are only granted for extenuating circumstances, Enrollment Services will submit this petition to the Office of the Provost for a final decision.
Should the request not be approved, the student must initiate the incomplete process where applicable or complete the class. Students who unofficially withdraw will have a symbol of "WU" placed on their record for each course. The "WU" is treated as an "F" for GPA calculation.

Instructor Withdrawal:

Faculty members may drop students who fail to attend class during the first week of the semester. However, students should not presume that they will be dropped by the faculty member. Students who have registered for a class, but never attended, should verify whether or not they are officially enrolled. It is the student's responsibility to withdraw officially from the class. An instructor may also withdraw a student who has enrolled in a course requiring permission of the instructor or completion of prerequisites if the student has not properly secured this permission or satisfactorily completed the prerequisites before enrolling. (PS 02-02)

Medical Withdrawal

Complete Medical Withdrawal

The University may allow a student to withdraw without academic penalty from all classes if the following criteria are met:
A. A completed Medical Withdrawal Form, including any required documentation, is submitted to the Office of Enrollment Services before the end of the semester, and
B. The student presents evidence to demonstrate that a severe medical or debilitating psychological condition prevented the student from attending and/or doing the required work of the courses to the extent that it was impossible to complete the courses.

The Provost (or designee) will review the evidence presented and, in consultation with appropriate medical or psychological professionals as needed, determine whether the request for a medical withdrawal should be granted.

Repeat Complete Medical Withdrawal: If the student has been granted a complete medical withdrawal in the immediately preceding term, then additional medical withdrawal requests must consider the condition of whether or not the student can complete appropriate educational objectives, and must be reviewed on a case-by-case basis. After a repeat medical withdrawal is granted, the student may be required to obtain clearance from an appropriate medical or psychological professional that states the student is well enough to return to classes with the full expectation that the student will be able to complete the semester and intended educational objectives.

Partial Medical Withdrawal

Students seeking withdrawal from part of their enrollment for any reason, including medical or psychological reasons, are subject to the normal withdrawal policy and process.

Cancellation of Registration or Withdrawal From Institution

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available online at the Enrollment Services website.

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

Refund of Student Fees

Regulations governing the refund of student fees in the California State University system are prescribed by the CSU Board of Trustees; see California Code of Regulations, Title 5, Education, Section 41602.

Educational Leave

Any registered student, undergraduate or graduate, in good academic standing may request an Educational Leave. Students requesting an Educational Leave must complete an Educational Leave Form, in advance, including an explanation of their reasons for seeking the leave and a statement of when they intend to resume academic work. The completed form should be submitted to the Office of Enrollment Services, Brotman Hall 101.

The minimum initial leave will be one full semester; the maximum will be one calendar year. A student may submit, in advance, a new educational leave request form for an extension of leave. Under no circumstances will the total number of approved educational leaves exceed two, nor will the duration of approved educational leaves extend beyond two calendar years.

Students returning from an approved educational leave are not required to submit an application for readmission to the university. Students returning from an absence for which an educational leave was appropriate but not approved in advance must reapply for admission and pay the reapplication fee.

Graduate students who plan to enroll for credit at another institution of higher education during the leave period must obtain prior approval for the transfer of credit to the student's program from the department graduate advisor, department chair, and the College Dean or designee.

The period of an educational leave is counted in the calculation of elapsed time under the regulations governing the maximum period for completion of degree and remediation requirements. (See Baccalaureate and Graduate sections of this Catalog).

For the period of an educational leave the student's rights under the "Elective of Regulations" rule are preserved, maintaining the rights of the student to elect regulations as if he or she had maintained continuous attendance.

An educational leave presupposes no expenditure of University resources or faculty and staff time on behalf of the student during the period of the leave. In addition, no computer facilities, no library privileges, and no student services are available to a student on educational leave. (PS 84-06)
Student Success and Graduation

CSULB's core academic purpose is to graduate students with highly valued degrees. Graduation rates for CSULB students have increased dramatically in recent years and the length of time it takes students to complete degrees has decreased. The availability of needed courses and a much better support by academic advisors and learning communities greatly improved graduation rates. These improvements were key to the ranking of CSULB as one of "America's Best Colleges and Universities" by U.S. News and World Report and "No. 3 best value public colleges in the nation" by America's Best Value Colleges.

Frequently Asked Questions

Students ask many of the following questions. Successful students know the answers to these frequently asked questions. Please read them carefully. Knowing those answers can help you avoid pitfalls during your first semesters on campus. For further information, see this section of the Catalog or contact the Academic Advising Center at (562) 985-4857.

1. How can I tell what requirements I still need to meet before I graduate? Use MyCSULB to check your Degree Progress Report. The default report will only list requirements that have not been satisfied. In addition, icons next to each requirement reflect the status of that requirement. You can print a copy of the Degree Progress Report to your major advisor or the Academic Advising Center for assistance.

2. Can my General Education (GE) Courses be used toward the requirement for my major ("double counted")?

A. Under the new 2008 G.E. pattern, up to ten units may double count for the major and G.E. Students under the 1990 G.E. pattern follow the previous double count G.E./major rules. See an advisor in the Academic Advising Center (Room 3, 562-985-4857).

3. How many units will transfer from a California Community College to CSULB? All bachelor's level courses transfer, but only 70 units of transferable course work will apply to your bachelor's degree. Additional transferable course work will receive subject credits only.

4. I transferred from a California Community College. Do I have to take any General Education courses? If you have received General Education certification, you are required to complete an additional nine (9) units of upper-division GE courses. If you have not been certified as having met the transfer pattern, you must meet the CSULB General Education requirements.

5. What does General Education (GE) Certification mean? There are three GE certification processes. Two may be completed at the California Community College (ICCC). They are either (1) the California State University (CSU) Transfer Pattern or (2) the Intersegmental General Education Transfer Curriculum (IGETC). The third certification process may be completed at another CSU. In all cases, GE certification means that you have completed your lower-division GE at a CCC or at another CSU.

6. Does having an A.A. degree from a California Community College mean I am GE Certified? Usually not. The minimum requirements for most A.A. programs do not include the lower-division GE pattern required by CSULB. CSULB also requires an additional nine (9) units of upper-division GE courses.

7. What is partial General Education (GE) Certification? Partial Certification means that transfer students have completed subject and unit requirements in some GE categories, but not others.

Baccalaureate Degrees

CSULB offers 71 baccalaureate majors (see a list of degree programs and admission requirements at the beginning of this Catalog). Baccalaureate degree programs are constructed of three interrelated areas: (1) the breadth component, called the General Education Program, which provides the basis for the baccalaureate degree with courses that offer training in general skills, methodologies, and habits of thought; (2) the depth component, which is designed to provide a major field of study in which there is a meaningful and coherent set of courses that establish an understanding of the broad field of knowledge and competence in the fundamental skills and methodologies of the discipline, and understanding and skill at an appropriate depth in one or more facets of the discipline; and (3) the elective component that provides the possibility for personal exploration, enhancement, and development to complement the rest of the degree program (and might include a minor and/or a certificate program).

Requirements for the Baccalaureate Degree

1. Completion of a minimum of 120 units for the Bachelor of Arts. Completion of the minimum number of units which could range from 120 to 140 required by the major program for the Bachelor of Science, Bachelor of Fine Arts, or Bachelor of Music degrees. See the description of the requirements for each major for the specific number of units required. There are restrictions (below) on how many units in certain categories may be counted toward the minimum unit requirement.

2. Completion of at least 40 upper-division units (courses numbered 300-499). No course taken at any community college may count toward fulfillment of those 40 units.

3. Completion of at least 30 units in residence at CSULB of which at least 24 must be upper-division and at least 12 must be in the major. Units earned in Extended Education cannot be counted toward fulfillment of the residence requirement.

4. Completion of the General Education program, described below, including at least 9 units in upper-division courses completed at CSULB.

5. Completion of the specific course and unit requirements for the academic major, as shown in the alphabetic listing for the major department. If the requirements are changed during students' continuous attendance at CSULB, they have the right to meet either the requirements in effect when they entered the major or the requirements in effect at the time they graduate. All upper-division courses required for a major must be completed within the ten-year period preceding award of the baccalaureate degree. Courses
completed prior to this ten-year period can be revalidated by such demonstrations of competence or knowledge of the subject as may be prescribed by the department offering the course.

The on-line Catalog Table of Contents has a link at the top to “Road Maps” that show a suggested sequence of courses to enable students to complete all degree requirements in a timely fashion. Since individual circumstances can vary, students should consult their major advisors for assistance in planning appropriate programs.

6. Satisfactory fulfillment of the Graduation Writing Assessment Requirement (GWAR) (See a description of the requirement at the end of this section.)

7. Achievement of a minimum 2.0 ("C") grade-point average in each of the following:
   a. The entire college record.
   b. All units attempted at CSULB.
   c. All courses in the major.
   d. All upper-division courses in the major completed at CSULB.

8. Formal approval by the faculty of the university.

Student Levels

Freshman .............................................0.0 to 29.9 units
Sophomore .........................................30.0 to 59.9 units
Junior ...............................................60.0 to 89.9 units
Senior ...............................................90.0 or more units
Postbaccalaureate ................................holding a baccalaureate or equivalent degree

Effective fall 2007, remedial coursework successfully completed at CSULB is included in determining undergraduate class levels.

Restrictions on Units That May Be Counted Toward the Minimum Required for the Baccalaureate

Activity Courses

Activity courses provide practice in such areas as music, dance, physical education and Sports, Athletics, and Recreation. Except as required by a student's major, students may apply to the degree no more than eight units each of activity course credit in music, dance, or physical education and no more than four units of activity course credit in SAR, up to a total of no more than 20 units in all areas.

Transfer Courses

No more than 70 units of courses from a Community College may be counted toward the minimum unit requirement for the baccalaureate. (For more detail, see the section on Transfer Credit in the Academic Information section of this Catalog.)

Extension Credit

A maximum of 24 semester units of Extension Credit may be accepted toward a baccalaureate degree.

Open University

The Open University program allows enrollment in regular university credit courses by those people who are not currently admitted to and/or registered at CSULB. Enrollment is on a "space available" basis, subject to the approval of the instructor and the department chair concerned. No more than 24 units of special session course credit earned through Open University or UCES Special Sessions course offerings at CSULB in non-matriculated status may count toward any undergraduate degree requirement. Students are considered in non-matriculated status in terms prior to the term of official admission to the degree granting program and during terms of disqualification from the degree granting program.

Special Session

There is no limit on UCES Special Sessions course credit, including Winter session, applicable to the degree if taken while in matriculated status in the degree program.

General Education

The Significance of General Education

The components of an undergraduate education include the major, in which the student acquires depth of knowledge, electives that allow a student to explore personal or career-related interests, and General Education (GE). General Education allows students to develop competency in academic skills that are essential to all academic majors. In addition, General Education offers students broad knowledge beyond the focus of the major, as well as exposure to the rich diversity of the human experience.

The General Education program at CSULB sequentially introduces students to the mastery of academic skills along with a pattern of course work that will provide graduates with an understanding of self, the physical world, the development and functioning of human society, and its cultural and artistic endeavors, as well as an understanding of the methodologies, value systems, and thought processes employed in human inquiries. It involves three stages: Foundation, Exploration, and Capstone. Students who begin their college careers at CSULB will complete all three stages, while transfer students who enter the university with a Full General Education Certification will be expected to complete the final (Capstone) stage only.

General Education Breadth requirements are specified pursuant to Title 5, California Code of Regulations, Sections 40402.1, 40403, 40405, 40405.1, 40405.2, 40405.4, and 40508, and Sections 1 and 2 of Chapter III of the Standing Orders of the Board of Trustees of the California State University, and Executive Order 595. CSU General Education Breadth requirements have been designated to complement the major program and electives completed by each baccalaureate candidate to assure that graduates have made noteworthy progress toward becoming truly educated persons. These requirements are designed to provide the knowledge, skills, experiences, and perspectives that will enable CSU students to expand their capacities to take part in a wide range of human interests and activities; to confront personal, moral, and social problems that are an inevitable part of human life; and to cultivate both the requisite skills and enthusiasm for lifelong learning.

The Essential GE Student Learning Outcomes

Upon completion of the GE Breadth requirements, CSU students should show mastery in each of the following:
Knowledge of Human Cultures and the Physical and Natural World
Achieved through study in the Sciences and Mathematics, Social Sciences, Humanities, History, Languages, and the Arts.

Intellectual and Practical Skills, Including
- Written Communication
- Oral Communication
- Critical Thinking
- Quantitative Reasoning
- Information Literacy and Technology Literacy
- Teamwork
- Creativity, Inquiry, and Discovery

Personal and Civic Responsibility, Including
- Global Competencies
- Intercultural Competence (cultural values/traditions-U.S. Ethical Reasoning and Social Responsibility
- Self-Understanding
- Foundation and Skills for Lifelong Learning

Integrative Learning, Including
- Synthesis and Interdisciplinary Methods of Inquiry

Structure of the General Education Curriculum
Each California State University, Long Beach baccalaureate graduate shall have completed a minimum of 48 semester units of GE courses distributed as described below. The GE program includes three (3) units of approved course work in U.S. History and three (3) units of approved course work in U.S. Constitution and American Ideals required by Section 40404 of Title 5 and EO 405.

The General Education curriculum is organized as three sequential phases. First is the Foundation, a group of courses designed to provide fundamental learning skills. The second is Explorations, courses distributed across the curriculum that are intended to provide an opportunity to explore the various ways of acquiring and examining knowledge while continuing to develop learning skills. The third is the Capstone, designed to integrate knowledge and skills developed earlier in the curriculum.

In completing the Foundation, Explorations, and Capstone phases of the General Education program, all students must complete a distribution pattern described below.

Within the Explorations and Capstone courses of the General Education program, all students must take one 3 unit course of instruction that focuses on instructive examples of human diversity in the United States (Human Diversity in the U.S. courses). All students must also take one three (3) unit course of instruction that focuses on global issues or world societies and cultures (Global Issues courses).

At least nine (9) units of the General Education program must be approved upper-division Capstone courses taken after the student achieves upper-division standing (completion of 60 semester units) and must normally be completed at California State University, Long Beach.

Only courses on the General Education Master Course List at the time the student takes the course shall count for General Education.
Because the program is intended to provide breadth, no more than 10 units of General Education courses in the student's major department may be used to satisfy the GE requirements. "Courses in the major department" include all courses housed in the department offering the major, regardless of prefix. There is no limit to the number of units outside the major department that may be used to satisfy both the requirements for the major and the requirements for General Education.

A cross-categorized course may be counted (at the student's option) in any one of the approved categories A-E, but not in more than one.

Where appropriate exams exist, Foundation and Explorations requirements may be met by external examinations, such as Advanced Placement or International Baccalaureate exams.

Foundation
The first-year program at CSULB should pay special attention to the development and improvement of fundamental academic skills that are critical to student success in college. Every CSULB student will be expected to demonstrate mastery of key academic skills early in the course of study at CSULB, ideally within the first year. Among the skills most critical to success are communication in English, both written and oral, mathematical concepts and quantitative reasoning, and analytical and critical thinking. Students also need a solid foundation in skills for learning, including the ability to read for information, information retrieval/literacy skills, and basic technology skills.

All students are assessed at entry into the university for readiness for baccalaureate-level work in English composition and mathematics. The first priority for any student who is not prepared for baccalaureate-level work is to become fully prepared for college. Accordingly, students who have not demonstrated readiness for baccalaureate-level English or mathematics must complete the appropriate pre-baccalaureate courses within the first year after admission to CSULB. A student who is required to take either pre-baccalaureate mathematics or pre-baccalaureate composition may register for other 100-level Foundation or other General Education classes only if those courses do not have pre- or co-requisites in the area of deficit.

The following courses make up the Foundation curriculum:
- one three (3) unit course in Written Communication in English
- one three (3) unit course in Oral Communication in English
- one three (3) unit course in Critical Thinking
- one three (3) unit course in Mathematics
The above courses must all be completed with a grade of at least "C".

The Foundation curriculum must be completed by the time the student has completed 36 units of baccalaureate-level work at CSULB.

Courses in the Foundation curriculum will be numbered from 100 to 199. All other General Education courses must have pre- or co-requisites from the Foundation curriculum, and all General Education courses numbered 300 or higher must have the entire Foundation curriculum as prerequisites. A Foundation course may have a pre- or co-requisite of another Foundation class, if educationally justified.

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Explorations

After an early focus on fundamental learning and academic skills, students will have an opportunity to explore human knowledge in many disciplines. The Explorations stage encompasses all areas outside the Foundation curriculum, as described under “Distribution.” It excludes the final nine (9) units of General Education, described under “Capstone.”

General Education courses numbered from 100 through 199 may be appropriately taken at the same time as courses in the Foundation curriculum.

Although the primary purpose of Explorations is the development of breadth of knowledge, it is expected that all courses will offer opportunities for continued development of foundational skills. Reading, writing, oral discussion and presentation, problem solving, quantitative reasoning, and critically and analytically based research are central to the learning of content. For this reason, all courses outside the Foundation must have pre- or co-requisites from the Foundation, and all courses numbered 300 or higher must have the entire Foundation curriculum as prerequisites.

In addition, as students progress through their Explorations, they will be expected to develop additional skills and attributes, including ethical reasoning, analytical reading, creativity, respect for difference, awareness of other cultures, questioning of stereotypes, the values of citizenship, negotiating skills, and other attributes of use in a diverse society.

Capstone

The final nine (9) General Education units form the Capstone. All students, including transfer students who have completed a certified lower-division General Education program, must complete nine (9) units of Capstone courses.

The purpose of the Capstone is to bring the strands of the General Education experience into focus, to reinforce knowledge and skills acquired from many areas, and to incorporate depth in the form of more sophisticated tools and analysis. For transfer students, the Capstone may offer an opportunity to connect to the campus in a learning community outside of the major department.

Distribution Requirement

Students must complete a minimum of 48 units of approved General Education courses, distributed as follows:

Category A – Communication in the English Language and Critical Thinking (all included in the Foundation) – At least nine (9) units to include:

- Category A.1. – At least three (3) units chosen from approved courses in Written Communication in English.
- Category A.2. – At least three (3) units chosen from approved courses in Oral Communication in English or a combination of oral and written communication in English.
- Category A.3. – At least three (3) units chosen from approved courses in Critical Thinking.

Category B – Natural Sciences and Mathematics – At least nine (9) units to include:

- Category B.1. – At least six (6) units of Natural Sciences to include:
  - Category B.1.a. – At least three (3) units chosen from approved courses in the Biological Sciences, which must include a laboratory experience.

Category C – the Arts and Humanities – At least nine (9) units to include:

- Category C.1. – At least three (3) units chosen from approved courses in the Arts.
- Category C.2. – At least six (6) units from 2 areas chosen from approved courses in the Humanities chosen from:
  - Category C.2.a. – Literature.
  - Category C.2.b. – Philosophy.
  - Category C.2.c. – Foreign Languages.

Category D – Citizenship and Social and Behavioral Sciences and History – At least 12 units to include:

- Category D.1. – At least six (6) units chosen from approved courses in U.S. Citizenship to include:
  - Category D.1.a. – At least three (3) units chosen from approved courses in U.S. History.
- Category D.1.b. – At least three (3) units chosen from approved courses in the Constitution and American Ideals.
- Category D.2. – At least six (6) units, from two different disciplines, chosen from approved courses in the Social and Behavioral Sciences and History.

Category E – At least three (3) units chosen from approved courses in Self-Integration

GE Electives – At least six (6) units required to meet 48 total units in GE. Additional courses to reach the minimum total of 48 units may be chosen from any courses approved for General Education credit in categories B, C, and D. This includes both courses that fit the specific designations above and other approved courses, designated as B.3 or C.3, that meet the general headings of category B or C but do not fit one of the specific required categories. Excess units from all or any combination of Category B or C or D, may be applied to this section.

Special requirements – All students, including all transfer students, must complete:

- at least 3 units from the above categories devoted to the study of Human Diversity in the United States, and
- at least 3 units from the above categories devoted to the study of Global Issues. [Note: Transfer students who began continuous attendance at a California Community College before Fall 2000 and who had General Education Full Certification upon entrance to CSULB are eligible to follow the requirements of earlier catalogs.]

Capstone Requirements – All students, including all transfer students, must complete at least 9 units of Capstone courses.

Capstone courses may be used to meet the specific category requirements and the Global Issues and Human Diversity in the U.S. requirements, if those have not been met by other courses. Students are expected to complete the Capstone requirement at CSULB. An exception will be made for students who transfer from another CSU campus after completing some of the upper-division GE requirement at that campus. To be accepted toward the Capstone requirement at CSULB, the transfer course must be approved for upper division general education credit at the campus offering the course. Other courses may be used, on an individual basis, to meet the requirement if they are approved for General Education at the
campus offering the course and if the purpose of the course meets the criteria for a CSULB Capstone course.

Students who transfer from baccalaureate institutions other than the CSU after completing upper-division General Education courses may petition to have one or more such courses accepted toward the Capstone requirement. Such petitions will be evaluated on the basis of the criteria above.

GE Requirements for Returning and Transfer Students

Students who have not maintained continuous attendance status shall be subject to the General Education requirements in effect at the time of their return to the university, with the following exceptions.

Previous CSULB students who were under earlier General Education requirements and who before breaking continuous attendance completed no more than three additional courses to complete the entire General Education requirement shall be allowed to complete the General Education requirement in effect at the time of the previous attendance. However, all students must complete at least 9 units of upper division General Education courses, of which a minimum of 6 units must be Capstone courses.

Previous CSULB students who were under the earlier General Education requirements and who before breaking continuous attendance completed one or more upper-division GE courses shall be required to complete additional Capstone courses as needed to complete the total of 9 upper-division units. At least two of the courses in the overall requirement must be Capstone courses.

Transfer students who enter CSULB with full GE certification from a California Community College must complete both the Human Diversity in the U.S. and the Global Issues requirements if these requirements were not met through transfer, but these students need not complete any other GE courses except the Capstone, which cannot be met through transfer from a community college. Transfer students who enter CSULB without full GE certification or subject-area (partial) certification from a California Community College must either complete the CSULB GE requirements, or complete and obtain a GE certification from a California Community College which will be honored as meeting CSULB's lower-division GE requirements.

Majors

Choosing a major is one of the most important, and sometimes most difficult, academic decision students will make during their college careers. There may be many possible choices of major that would provide preparation for a given career. The section on Degrees, Options, Minors, and Certificates earlier in this Catalog shows the many choices available and where to find information on each. Many departments have additional information posted on their web pages, accessible from the university's home page. Students are encouraged to interview faculty in possible majors and to seek the help of student services professionals to assist them in making this important decision.

A choice of major is not a final decision. There is no limit to the number of times a student may change majors.

Declaration of a Major

To help ensure timely completion of graduation requirements, students who have a total of 60 units completed must have declared a major before they may register for the next term. Upper-division transfer students are required to declare their intended major on their application for admission. (PS 06-04)

Change of Major or Other Objective

Undergraduate students declaring a major for the first time or changing from one degree program or degree option program to another must submit an approved Change of Major/Declaration form to the Office of Enrollment Services. Some departments may submit these forms electronically.

Students who are candidates for a certificate or credential program must also file a Request to Graduate. (Please see Graduation section of the Catalog.)

The evaluation of credits transferred to the University is based in part upon the objective indicated on the application for admission. Students should be aware, therefore, that under some circumstances transfer courses accepted for one purpose may not be acceptable for other purposes. Graduation checks needing to be redone may carry a special fee.

Double Major

Students may complete the requirements for two baccalaureate programs concurrently. One diploma will be issued reflecting both majors. A course, or courses, may be used to satisfy the individual requirements of both majors, without limit, as long as the required pattern of course work is completed for each major.

Minors

A minor is a structured selection of courses by which a student can enrich his or her academic preparation through concentrated study of a discipline that is different from, but may be related to, the student's declared major. A minor is a means to augment or complement the major by broadening the student's academic experience or serving as preparation for a specific career. Usually a minor is not required for the baccalaureate; however, students may elect to complete a minor and have that fact noted on their records. Students should consult with an advisor in their major department for recommendations on suitable minor fields of study.

A minor consists of a minimum of 18 units, as specified by the department or program, at least nine of which must be upper-division. The minor may be in a single subject or interdisciplinary. Students may not declare or receive a minor in the same subject as the major, and the major and minor may not have the same title. The description of each minor shall have a statement listing all majors, if any, that may not be combined with that particular minor. The minimum overall GPA in courses toward the minor is 2.0. A minimum of six units of course work toward the minor must be taken at CSULB.

Students should refer to the requirements of the department and college of their major, to see whether a minor is required for that major. Even if a minor is not required, students may elect to complete one or more minors from those available and have that fact noted on their transcripts. Unlike certificates, minors are awarded only as part of a baccalaureate degree. Students may not finish a minor after they have graduated, except in conjunction with a second baccalaureate degree.

Certificate Programs

California State University, Long Beach offers 40 baccalaureate-level programs leading to the award of a Certificate. Certificate programs differ from baccalaureate majors and minors in their emphasis on practical and applied...
uses of knowledge in a specific area of human enterprise. Certificates may be earned concurrently with or following the award of the baccalaureate degree. Certificate programs must require at least 18 units of coursework, of which at least 15 units must be at the upper-division level. Many certificates require 24 to 27 units. Courses taken to fulfill the requirements for the baccalaureate may also be applied to certificate requirements. A maximum of two 500-level courses, taken by eligible students in their senior year, may be applied to a baccalaureate certificate program. Extension and/or transfer credit may comprise no more than one-fourth of the course work used to meet baccalaureate certificate requirements. A grade-point average of at least 2.0 must be maintained in the certificate program's course work.

Students desiring to pursue a baccalaureate certificate program should consult the relevant department as early as possible to receive timely advisement on the program. Students wishing to receive a certificate must so indicate on the Request to Graduate form filed with the Office of Enrollment Services.

Additional Baccalaureate Degrees

A graduated student who wishes to pursue an additional baccalaureate degree and maintain undergraduate status may do so by completing a minimum of 30 units in residence at graduation, of which 24 units must be upper-division courses and 12 units must be in the major. (See the Catalog section on admissions for restrictions on the admission of candidates for a second baccalaureate degree.)

A senior, with advance approval of the Academic Appeals Committee, may earn a maximum of twelve units toward the additional degree while in residence for the first degree. Any courses to be applied to the additional degree must be specified and taken in addition to those needed to satisfy the requirements of the first degree.

Students applying for and accepted to a second baccalaureate degree program who have received their first baccalaureate degree or equivalent from an institution outside of the U.S. will be required to complete any deficiencies in the General Education pattern and will be evaluated for General Education on the same basis as undergraduates.

Enrollment of Seniors in Graduate Courses

Undergraduates may enroll in graduate courses only under the conditions specified below:

Graduate Credit Earned as a Senior

Graduate credit usually may not be earned in advance of the baccalaureate degree. Seniors may, however, be granted approval to earn a maximum of 12 units of course work in the 400 and 500 levels designated as acceptable for graduate credit and taken at this university towards their prospective graduate programs (based upon faculty recommendation, academic performance in general a grade-point average of 3.0 (B) in the major), and promise of academic achievement in post-graduate study). Approval is subject to the following conditions: (a) the course work must be in addition to that required for the undergraduate major; and (b) the undergraduate student must have a "Petition to Earn Graduate Credit in the Senior Year" approved by the departmental graduate advisor and the department chair prior to enrollment. (PS-92-08)

In those areas in which graduate credit is for a credential only, the petition must be submitted to the appropriate department in the College of Education. Petitions submitted after completion of course(s) will not be approved.

Senior Enrollment in Graduate Courses for Undergraduate Credit

Under special conditions, seniors who have a 3.0 grade point average or better in their major and who have adequate undergraduate preparation in the subject may enroll in up to 12 units in the 500-599 series to fulfill the elective requirements of the bachelor's degree. The course work may not be applied to the units of 500-600 level course work required by the department or college for the master's degree. The student must have a "Petition to Earn Credit Toward a Bachelor's Degree for a 500-Level Course Taken in the Senior Year" approved by the instructor and department chair before registration in the class(es) is permitted. (PS 92-09)

Graduation Writing Assessment Requirement (GWAR)

In order to obtain a degree or certificate from CSULB, all students must demonstrate upper-division competence in academic writing in English. For the purposes of fulfilling the Graduation Writing Assessment Requirement (GWAR), students are responsible for developing the skills necessary (which should include analysis and support with one or more of the following: synthesis, critique, inquiry, argument, and exemplification).

Undergraduate students fulfill the GWAR by one of the following:
1. Passing the Writing Proficiency Exam (WPE);
2. Passing another approved CSULB assessment of writing competence;
3. Having already passed an assessment of writing competence GWAR at another CSU campus, prior to transfer to CSULB.
4. Earning a CSULB-approved passing score on the writing portion of an approved standardized graduate admissions test, such as the Graduate Record Examination or the Graduate Management Aptitude Test.

Assessments of writing competence from non-CSU campuses are evaluated by the GWAR Coordinator for their equivalence before they are accepted to fulfill the GWAR.

Students need to fulfill the GWAR at least once. If unsuccessful, they may take it a second time or may attempt to fulfill the GWAR by another approved assessment of writing competence.

All continuing CSULB and transfer students who have not fulfilled the GWAR must register for and take the WPE by the end of the semester in which they earn 65 units. Upper-division transfer students who enter CSULB with 65 or more units must take the WPE within their first semester of residency at CSULB. (PS 04-06)

Students with degrees from non-CSU campuses must either provide proof of meeting the requirement with adequate scores on a CSULB-approved standardized graduate admissions test or attempt to satisfy the GWAR by the end of their first semester of matriculation at CSULB.

Students can register for the WPE at the Office of Testing and Evaluation Services, BH-216 (562) 985-4007, www.csulb.edu/conted/testing. Students must pay a fee each time they take
the test to cover the costs of test administration and scoring. The Testing Office offers three-hour workshops one to two weeks prior to each WPE date indicated in the Schedule of Classes. Information about these workshops, the WPE workbook, and related services can be obtained from the Testing Office.

Students who need assistance to prepare for the WPE should contact WPE faculty advisors in the Learning Assistance Center. Room 104, (562) 985-5300, or a special course like ENGL 301A would be helpful. Students who fail any two approved assessments of writing competence must meet with a GWAR faculty advisor located in the Learning Assistance Center. Room 104, (562) 985-5300. Such students are required to present evidence that they have followed the advisor’s recommendations regarding course work, tutoring, or other services connected to developing the requisite skills before they will be allowed to register for a third attempt.

The GWAR, Registration Holds, and Application to Graduate

If undergraduate students neglect to attempt the WPE by the time they earn 65 units, CSULB will place a hold on their privilege to register for classes. Students must sign up for and take the WPE to release these registration holds.

Students with compelling reasons can request deferrals at the Office of Testing and Evaluation Services. In certain circumstances, students, with help from their faculty or staff advisors, may submit an appeal or contract to release a registration hold temporarily. All students must attempt to fulfill the GWAR before filing a graduation application.

Graduation

Dates and Requests to Graduate

The university awards degrees at the end of each of four terms in a year: January (work completed at the end of Winter session); May or June (end of the Spring semester); August (end of Summer Session); and December (end of the Fall semester).

Seniors and graduate students who expect to receive degrees or Certificates at the end of any semester, winter or summer session must complete the Request to Graduate form and/or Certificate form well in advance. The appropriate request for Spring or Summer candidates must be filed by the preceding October 15; and for Fall or Winter candidates, by the preceding March 1, at the Office of Enrollment Services. The names of Candidates who file within these deadlines will appear in the Commencement Program published each Spring. Publication of names in the program does not constitute graduation from the university. Credential students should apply in the Credential Processing Office, located in the Graduate School of Education, or the Office of Enrollment Services by February 1 for December completion and by October 1 for Spring and Summer sessions.

Requests to graduate submitted later than the deadline will be processed after those submitted on time. The degree will be granted once all requirements have been completed, but the student’s name will not be printed in the Commencement Program.

Completion of Records and Requirements

Prior to receiving a degree, students are responsible for the following:

- Insuring that the university has received official transcripts of all work completed at other institutions. If a grade of D or better is required to complete the degree, the credit must be submitted by the announced date, approximately one month after the official graduation date.

- Completing all requirements for the degree, including the minimum number of units. Units will not be counted toward the minimum if they are above the acceptable total in certain categories, as listed in the degree requirements, or if they are a repetition of a course for which credit has already been counted. Any substitutions or waivers of course requirements must be submitted by the advisor.

- Completing all “in progress” and “incomplete” courses that are to be completed. No additional work may be completed after the degree is awarded. No grade can be changed after the degree is awarded except for a change resulting from a grade appeal. Any incomplete remaining on the record as of the graduation date will be counted as if it were an “F,” with units attempted but no grade points earned, unless the instructor has specified on the incomplete form that some other grade be recorded.

Degree Clearing

Final review of records begins three weeks after final exams in the student’s last term, and can take up to three months. If all degree requirements are complete, the degree and any honors are added to the transcript. The transcript is the official verification of the degree.

It is the student’s responsibility to submit records of all changes in the record no later than the last day of the final semester or session. Such materials include transcripts from other institutions and amendments, substitutions, waivers, and grade changes.

Honors for Undergraduate Students

I. Graduation with Honors

A. Latin Honors

The following grade-point average (GPA) criteria are used to identify undergraduate students eligible for the honors specified:

1. equal to or greater than 3.950 graduated summa cum laude;
2. equal to or greater than 3.750 but less than 3.950 graduated magna cum laude; and
3. equal to or greater than 3.500 but less than 3.750 graduated cum laude.

An undergraduate student may be considered eligible for honors at graduation provided that a minimum of 45 units are earned at California State University, Long Beach. For the first baccalaureate degree, the GPA shall be determined from units earned at CSULB plus transferred units. For the second baccalaureate degree, the GPA shall be determined only by courses taken after the first degree was awarded that are also required by the second major.
B. Departmental Honors
With the approval of the dean of the college, departments may elect to award departmental honors to their graduates based on GPA and/or other criteria determined by the department. The number of honors awarded by a department shall be limited to three students or five percent of graduates, whichever is larger.

C. Notification
University honors will be noted on the diploma and transcript. Departmental honors will be noted on the transcript only.

II. Honor Lists
Undergraduate students exhibiting outstanding scholastic achievement are honored by being included on the president’s or dean’s list. A certificate will be issued for each semester in which the student receives this honor.

A. President’s List
Students will be placed on the President’s List to honor them for academic achievement each semester in which they complete 12 or more graded course units with an average GPA equal to or greater than 3.750. Students earning fewer than 12 graded course units per semester will be placed on the President’s List in the spring semester of the academic year in which they accumulate 12 or more graded course units with an academic year GPA equal to or greater than 3.750.

B. Dean’s List
Students will be placed on the dean’s list to honor them for academic achievement each semester in which they complete 12 or more graded course units with a semester GPA equal to or greater than 3.500 but less than 3.750. Students earning fewer than 12 graded course units per semester will be placed on the Dean’s List in the spring semester of the academic year in which they accumulate 12 or more graded course units with an academic year GPA equal to or greater than 3.500 but less than 3.750.

Honor Societies
- Phi Beta Kappa – Founded at the College of William and Mary in 1776, it is the oldest and most prestigious honor society for students of the liberal arts and sciences. A chapter was established at California State University, Long Beach in 1977.
- Mortar Board – Founded in 1918 as an honor society focusing on scholarship, leadership, and service. Mortar Board is the first national honor society founded by and for college senior women, and the membership expanded to include men in 1975. The California State University, Long Beach Cap and Gown Chapter was founded in 1972, and grew out of an honor club established here by seven women in 1963. The Cap and Gown Chapter is one of over 200 Mortar Board Chapters, with a total national membership of over 250,000 dedicated, active scholars.

- Phi Kappa Phi is by invitation only and requires nomination and approval by the chapter and national society. Membership for juniors, seniors, and graduate students is based on integrity of character, one year residence in the University, and outstanding scholarship. Inquiries should be directed to the President of the University chapter of Phi Kappa Phi, Dr. C. J. Walter, clo College of Business Administration.

Other societies may limit membership to particular academic areas. Among these organizations at California State University, Long Beach are the following:
- Beta Alpha Psi (Accounting) — National scholastic fraternity to give recognition to excellence in the field of accounting.
- Beta Gamma Sigma (Business Administration) — National honorary business society to recognize superior academic performance.
- Chi Epsilon (Civil Engineering) — National honor society open to Civil Engineering majors with a 2.9 GPA.
- Chi Sigma Iota (Counseling) — International honor society open to graduate students with a GPA of 3.5, scholars, and practitioners in the counseling profession.
- Ela Kappa Nu (Electrical Engineering) — National honor society furthering area interests and promoting scholarship. GPA requirements for seniors 2.8, for juniors 3.0.
- Kappa Delta Pi (National honor society for teachers) — encourages high professional, intellectual, and personal standards. Recognizes outstanding contributions to education.
- Kappa Tau Alpha — National honor society that recognizes academic excellence and promotes scholarship in journalism and mass communication.
- Omicron Nu (Family and Consumer Sciences) — National honor society recognizing superior scholarship and promoting leadership and research in the field of Family and Consumer Sciences.
- Phi Alpha (Social Work) — National honor society to improve the goals of social work on campus. GPA requirement 3.0.

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• Phi Alpha Theta (History) — National honor society in history, founded to promote the study of history through the encouragement of research, good teaching, publication, and the exchange of learning and ideas among historians.

• Phi Beta Delta (International Education) — National society, founded at CSULB, recognizes students from all disciplines with high GPAs and extensive involvement in international education or international studies.

• Phi Delta Gamma (Scholarship) — National honor society which fosters academic achievement and professional preparation.

• Phi Kappa (Education) — National organization which promotes service, research, and leadership in education. Members include both students and faculty.

• Phi Epsilon Kappa (Physical Education) — National society for recognition in sports and physical education. 3.0 GPA requirement and faculty recommendation.

• Phi Mu Alpha-Sigma (Music) — National organization for students in music. Promotes music in America, especially contemporary American music.

• Phi Alpha Alpha (Public Administration) — National society to encourage scholarship among students of public administration.

• Phi Sigma Tau (Philosophy) — National honor society for students with a strong undergraduate concentration in philosophy.

• Pi Kappa Lambda (Music) — National honor society for scholastic achievement in music.

• Pi Lambda Theta (Education) — National organization for undergraduate and graduate students. Purpose is to maintain high standards of scholarship and preparation for teaching.

• Pi Mu Epsilon (Mathematics) — National honor society recognizing distinction in mathematics.

• Pi Sigma Alpha (Political Science) — National honor society for political scientists. Open by invitation to upper-division and graduate students with a 3.0 GPA.

• Pi Tau Sigma (Mechanical Engineering) — National honorary fraternity encouraging and recognizing outstanding scholastic achievement of students in the field.

• Psi Chi (Psychology) — National honor society recognizing distinction in Psychology. Sponsors research and other participation in psychology.

• Sigma Alpha Iota (Music) — National organization for women in music. Aims to further the development of music in America through performance, study, and participation in both campus and community projects.

• Sigma Delta Pi — Capitulio Phi Chi — One of the purposes of this society is to honor those who attain excellence in the study of the Spanish language and in the study of the literatures and cultures of the Hispanic World.

• Sigma Theta Tau (Nursing) — International honor society recognizing superior scholastic achievement, leadership, and community service in nursing.

CSULB Alumni Association

The CSULB Alumni Association is the link between the University and its more than 220,000 graduates to garner their support for The Beach. It sponsors various alumni programs, communication vehicles to inform alumni about their alma mater, and supports the University with departmental grants and student scholarships including the prestigious President’s Scholars Program.

The Association is governed by a volunteer board of directors who serve as alumni ambassadors for the university, promote its mission, and reconnect alumni with the institution. Other volunteers assist with its other programs such as Homecoming, commencement hospitality, and convocation events.

Membership dues for CSULB graduates and credential holders are a one-time $49 fee. For non-graduates, including alumni who took CSULB classes but did not graduate, the fee is $49 for the first year and $25 annually thereafter.

The main benefit of membership is to keep informed about their alma mater through its magazine "Beach Connection" and e-communicates. In addition, members have access at all CSU libraries (check with campus library for alumni restrictions), discounts at the Carpenter Performing Arts Center events and home games, and access to various group insurance policies (medical, home, auto, life, etc.), the CSULB Alumni Association Credit Card through Bank of America, etc. Alumni also can access the CSULB Career Development Center for an annual fee.

For more information about the CSULB Alumni Association, check the website at www.csulb.edu/alumni or call 562-985-5252.

Giving at the Beach

Beach Fund

Though Cal State Long Beach is a publicly supported institution, generous contributions to the Beach Fund are critical to keeping the University thriving. Supporting the Beach Fund allows the President and Deans to address the ongoing, immediate needs of the University. Contributions to all areas enhance state support and student fees to provide all students with access to a quality education. Such areas most impacted by your support are:

• Student Success and Access
• Teaching and Discovery
• Creativity and Innovation
• Science and Technology
• Global and Community Engagement

None of these successes can be accomplished with state funding alone. More than 20,000 alumni, parents, and friends of the university contribute to the Beach Fund each year. Gifts to the Beach Fund make it possible for our gifted students to earn the lifelong benefits of a quality CSULB education and protect the value of degrees already earned. Please feel free to contact the Office of Annual and Special Giving by phone at (562) 985-3294 or via email at annaigiving@csulb.edu.

Senior Gift Campaign

Every graduating senior is contacted near graduation to initiate a pledge in support of the campus. Seniors are asked to donate $125 to purchase a brick to be permanently placed in the Alumni Brick Plaza. Gifts of $125 or less are designated to the Annual Fund to be used for essential campus needs. Seniors have proven to be generous and loyal donors to the University.
GRADUATE DEGREES AND OTHER POST BACCALAUREATE STUDIES

Vice Provost for Academic Affairs and Dean of Graduate Studies
Cedric Lindsey
Associate Deans for Graduate Studies
Jay Kapil (Arts)
Steve Turley (Education)
Sandy Cymar (Engineering)
Sue Stanway (Health and Human Services)
Mark Wiley (Liberal Arts)
Henry Fung (Natural Sciences and Mathematics)
Director of MBA Program
H. Michael Chung

Graduate Studies

Graduate study is primarily designed to inspire independence of mind and originality in the quest for knowledge, truth, and useful application. Candidates for a master's degree are required to demonstrate mastery in their chosen field of study either through independent research culminating in an acceptable thesis or project, or through successfully passing a final comprehensive examination.

Graduate curricula are designed to provide each student with advanced study in a discipline. All courses listed in a master's degree program, including those outside the major field, must be graduate or upper-division courses approved by the student's graduate committee and department graduate advisor.

A student who plans to become a candidate for a master's degree must hold a bachelor's degree from an accredited institution or have completed equivalent academic preparation at a foreign university as determined by the appropriate campus authority. The student must have completed undergraduate course work substantially equivalent to that required at California State University, Long Beach in the discipline of intended graduate study, or must be prepared to undertake additional work to make up any deficiency. Most graduate degree programs are based upon preparation in the discipline at the undergraduate level. Undergraduate preparation is considered adequate if a candidate has met the upper-division requirements of this University for a bachelor's degree in the subject matter area of the master's degree program. Refer to specific departments for detailed requirements of each degree program.

The following graduate degrees are offered:

Master of Arts Degree in:
- Anthropology
- Applied Sociology
- Art
- Asian Studies
- Communication Studies
- Communicative Disorders
- Dance
- Economics
- Education
- English
- Family and Consumer Sciences
- French
- Geography
- German
- Global Logistics
- History
- Interdisciplinary Studies
- Kinesiology
- Linguistics
- Music
- Occupational Studies
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Spanish
- Theatre Arts

Master of Business Administration

Master of Business Administration / Master of Fine Arts in Theatre Management

Master of Fine Arts Degree in:
- Art
- Creative Writing
- Dance
- Theatre Arts

Master of Music

Master of Physical Therapy

Master of Public Administration

Master of Public Health

Master of Social Work

Master of Science in Nursing/Master of Public Health

Master of Science Degree in:
- Aerospace Engineering
- Biochemistry
- Biology
- Chemistry
- Civil Engineering
- Computer Science
- Counseling
- Criminal Justice
- Electrical Engineering
- Emergency Services Administration

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Engineering
Geology
Gerontology
Health Science
Health Care Administration
Interdisciplinary Studies
Kinesiology
Mathematics
Mechanical Engineering
Microbiology
Nursing
Nursing/Health Care Administration
Nutritional Science
Physics
Psychology
Recreation Administration
Science Education
Special Education

Civil Engineer Degree

Ed.D. in Educational Leadership
Ph.D. in Engineering and Industrial Applied Mathematics

Certificate Programs and Graduate Study

Students, whether graduates of CSULB or of another accredited institution, may complete the requirements for and be awarded certificates while in graduate standing. Admission requires a bachelor's degree from an accredited institution, at least a 2.5 grade-point average in the most recently completed 60 units of course work, and fulfillment of the Graduation Writing Assessment Requirement (GWAR). Certificate programs are of two types: baccalaureate certificates which may be taken concurrently with or following the award of the baccalaureate degree, and graduate certificates which require post-baccalaureate standing. The graduate certificates are listed below, with the department responsible for each certificate indicated in parentheses.

Graduate certificate programs require at least 18 units of course work, of which at least 12 units must be at the 500 or 600 level. Courses taken to fulfill the requirements for the master's degree may also be applied to certificate requirements, if the certificate program permits, but such overlap may not exceed 15 units. Courses in directed research, directed reading, internship, and independent study may comprise no more than 3 units of a graduate certificate program. Thesis and student teaching may not be used on the program. Extension and/or transfer credit may comprise no more than one-sixth of the course work used to meet graduate certificate requirements. A grade-point average of at least 3.0 must be maintained in the graduate certificate program's course work. All courses used to complete the requirements of a graduate certificate must be completed within a five-year period from the date of the initial course work.

If you wish to pursue a graduate certificate program, you should review the course requirements listed in the department course listings of this catalog. You should notify the relevant department of your intention to pursue a certificate program as early as possible so as to receive early advisement and planning.

Certificates

Career Guidance Specialist (Educational Psychology, Administration, and Counseling)
Community College (Educational Psychology, Administration, and Counseling)
Health Care Administration (Health Care Administration)
Leisure Counseling (Recreation and Leisure Studies)
Museum Studies (Art)
Nurse Practitioner (Nursing)
Public Management Analyst (Public Policy and Administration)
Public Sector Employer-Employee Relations and Personnel Management (Public Policy and Administration)
Public Sector Financial Management (Public Policy and Administration)
Systems Engineering (College of Engineering)
Teaching English as a Second Language (Linguistics)
Transportation Policy and Planning (Public Policy and Administration)
Urban Executive Management (Public Policy and Administration)
Waste Engineering and Management (Civil Engineering)

Post-Baccalaureate Studies

Students with a baccalaureate degree who wish to continue their education for personal enrichment or to meet professional needs may do so at CSULB either as a post-baccalaureate student or as a graduate student. A post-baccalaureate student is one who has not declared a master's degree or a credential as an objective but who is nevertheless attending classes and participating in academic work at the University beyond the baccalaureate degree. Post-baccalaureate students may only enroll through University College and Extension Services. A graduate student is one who has requested and received formal admission to a specific field of study that will lead to a graduate degree in one of the many disciplines available at CSULB.

Candidates for public school service credentials at the University are advised to familiarize themselves with the requirements for these programs. Descriptions of credential programs appear in the Credential Programs section of this Catalog and in the separate departmental sections of this catalog.

Graduate and Post-Baccalaureate Admission Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective. Students who meet both the minimum requirements established by the CSU system and the specific professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the academic program will be admitted as Classified Post-Baccalaureate or Credential candidates. Applicants may be admitted as Conditionally Classified if, in the opinion of appropriate campus authorities, deficiencies may be remedied by additional preparation. In unusual circumstances, a campus may make exceptions to these criteria.
To meet the minimum requirements for admission to graduate and postbaccalaureate studies at CSULB, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; and (3) have attained an acceptable grade-point average in any of the following ways: (a) hold an advanced degree; (b) hold a baccalaureate degree with a cumulative GPA of at least 2.5 (A = 4.0); (c) hold a baccalaureate degree with a GPA of at least 2.5 in the last 60 semester (90 quarter) units attempted (excluding lower-division and extension course work taken after the degree).

Students in the process of completing a baccalaureate degree may be admitted on a provisional basis, subject to proof of degree completion by the established deadline, if their cumulative GPA is at least 2.7 or their GPA in the last 60 semester or 90 quarter units is calculated at 2.5 or higher.

For information on the specific requirements for admission to a given program, see the Catalog section for that program. These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website, www.calstate.edu and the CSU admissions portal www.csumentor.edu are good sources of the most up-to-date information.

Admission to the University

In order to be admitted to CSULB as either a post-baccalaureate classified student or as a graduate student, the applicant must meet the following requirements:
1. Have earned a baccalaureate degree from an accredited university or college;
2. Have been in good standing at the last institution attended;
3. Have at least a 2.5 grade-point average in the last 60 semester (or 90 quarter) units attempted, independent of when the baccalaureate was granted. The entire term in which the 60 semester (or 90 quarter) units began will be used in this calculation. Lower-division courses or courses taken in extension (except in adjacent enrollment at CSULB in the upper-division level), after obtaining the bachelor’s degree, will be excluded from the calculation.

Students wishing to enroll in the University must follow the instructions supplied by the Office of Enrollment Services in the Admissions section of this Catalog.

NOTE: Graduating undergraduate CSULB students do not automatically continue as graduate students. They must apply under the same conditions as non-CSULB students. Once applications are received, they will be evaluated at appropriate offices. To be admitted to the University, a student must also be admitted to a specific program. The University does not admit post-baccalaureate students who do not have a degree, certificate, or credential objective. Provisional admission is granted to applicants anticipating their baccalaureate degree prior to registration but subsequent to filling the application. Proof of the baccalaureate is mandatory (final transcript must be on file) prior to the student’s second semester of attendance. If in not, provisionally admitted students will be prohibited from future enrollment until such proof is on file.

The student must request all institutions of higher learning attended (except for CSULB) to send an official copy of transcripts directly to the Office of Enrollment Services and to the department advisor of graduate studies. Graduates of California State University, Long Beach must follow these same procedures when making application to a graduate degree program.

All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who possess a bachelor’s degree from a postsecondary institution where English is not the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), 213 on the computer-based version of the TOEFL or 80 on the Internet-based (IBT). Some programs may require a higher score.

Admission to a Department as a Graduate Student

In order to pursue a credential or master’s degree, students must be accepted by the department or college offering the degree program. In some instances (see specific department listing) this process may require making a separate application to the department or college. Following review by the department or college will determine whether or not a student meets its requirements for admission to its degree program. Departments or colleges that receive more applications from qualified students than the number of graduate spaces they have available will admit students in priority order based on the strength of candidates’ qualifications.

On the other hand, if space is available, a student who is admissible to the University but does not meet program requirements for admission may nevertheless be accepted as a conditionally classified graduate student by the department or college offering the program, subject to the proviso that all remaining admission requirements of the program must then be fulfilled after enrollment. Only the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee is authorized to grant conditional admission to a student who does not meet University requirements, and such action will be taken only in rare and compelling circumstances.

Special Action

In rare and compelling circumstances, an applicant who does not qualify for admission under the previous provisions may be admitted by special action if on recommendation of the appropriate faculty of the department/college concerned and in the judgment of the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee there exists acceptable evidence that the applicant possesses sufficient academic, professional, and other potential pertinent to his/her educational objectives to merit such action, as shown through aptitude scores, recent academic performance, and experiential background.

Graduation Writing Assessment Requirement (GWAR)

As a requirement for advancement to candidacy, all graduate students must demonstrate upper-division competency in academic writing in English. Students must either submit evidence of having fulfilled this requirement elsewhere or attempt to fulfill it no later than the end of their
first semester of matriculation at CSULB. All graduate students must fulfill this GWAR by one of the following:
1. Passing the Writing Proficiency Exam (WPE)
2. Passing another approved assessment of writing competence
3. Having fulfilled a GWAR as part of their baccalaureate degree(s) while matriculated at CSULB or at another CSU campus
4. Earning a CSULB-approved passing score on the writing portion of an approved standardized graduate admissions test, such as the Graduate Record Examination or the Graduate Management Aptitude Test

Assessments of writing competence from non-CSU campuses will be evaluated by the GWAR Coordinator as a fulfillment of the GWAR on an articulation basis if possible, or on a case-by-case basis if necessary.

Graduate students must satisfy the GWAR before they will be advanced to candidacy. (Advancement to candidacy requires satisfying the GWAR and satisfactorily completing six or more semester units in residence earning a 3.0 GPA or greater.) Graduate students must also visit their graduate faculty advisors in their first semester to determine if additional departmental or program writing requirements apply to their advancement to candidacy.

It is the students’ responsibility to ensure that any passing scores they have earned on the essay portions of standardized graduate admissions tests are reported to the Office of Enrollment Services. It is also the students’ responsibility to ensure that their specific department or program receives up-to-date GWAR scores and information.

Graduate Research Fellowship

The Graduate Research Fellowship is awarded by CSULB faculty to students who show potential for success in scholarship and creative activity and are interested in advanced study. Interested students should contact the office of their college dean for information on the nomination process.

Second Master’s Degree

A graduate student who is currently enrolled in a master’s program at CSULB must complete that master’s program before enrolling in courses for another degree. A graduate student who already holds a master’s degree from this or any other accredited institution but desires to become a candidate for a second master’s degree in a different field is subject to the following regulations:
1. All admission requirements of the University and college or department must be met (all general regulations listed in the Catalog apply to the second master’s degree);
2. Enrollment and approval of candidacy for the second degree will be granted only after the first degree has been completed and awarded;
3. All requirements for the new degree must be completed;
4. After awarding of the first master’s degree, a minimum of 24 units of graduate residence credit must be earned at this University including the minimum of 500/600-series units mandated by the major department in which the student is earning the second master’s degree;
5. No more than six units earned on the first degree may be applied to a second master’s degree;
6. Prerequisites for an advanced course must be completed prior to enrollment in the advanced course. An instructor may disenroll a student who does not provide evidence of adequate preparation;
7. All prerequisites must be completed prior to application for candidacy;
8. Two master’s degrees cannot be awarded concurrently;
9. The area or discipline in which the second degree is earned shall be designated on the transcript and a second diploma awarded.

Graduate Study in the International Programs

Students planning to participate and receive credit toward a master’s degree in an International Program should consult with the graduate advisor in the department of their major and college dean or director of graduate studies before entering the degree program.

Graduate students who have not been admitted to candidacy for a master’s degree and who participate in the International Programs may, upon their return to California State University, Long Beach, petition to have six units earned as resident credit in the International Programs included on their official student program for the master’s degree. In no case may excess grade points earned in the International Programs be used to bring a grade-point deficiency at California State University, Long Beach to the required 3.0 (B) average.

Students admitted to candidacy for a master’s degree who plan to participate in the International Program of Studies must obtain permission, prior to beginning their study abroad, to have units earned abroad applied toward satisfaction of their degree requirements. A candidate’s petition to apply units earned abroad must be reviewed and recommended by the department offering the degree. The specific courses to be taken on the foreign campus, thesis research which is to be done abroad, or any other requirements such as examinations to be taken upon the student’s return must be listed on the official student program. Usually no more than six units of credit may be transferred to apply toward the minimum 30 units for an advanced degree as a result of participation in the International Program of Studies, but a maximum of 12 units may be allowed by the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee in consultation with the University Graduate Council in a special case.

A copy of the candidate’s graduate student program must be forwarded to the Resident Director for the foreign area, who must certify that any credit earned abroad is appropriate to meet graduate degree requirements.

Pending the faculty’s evaluation of the student’s work, a Report Delays (RD) grade will be assigned in all courses in which work was completed abroad and which are offered to satisfy requirements toward an advanced degree.

Change of Objective

Evaluation of credits transferred to the University is based in part upon the objective indicated on the application for admission. Candidates desiring a change in graduate objective to a discipline different from that indicated on the original application must reapply to the University. Reapplication requires the submission to the Office of Enrollment Services of a newly completed Graduate and
Postbaccalaureate Admission form and payment of the associated fee. The proposed new graduate department or program will review the application and notify Enrollment Services of its decision. Students who are admitted to a new discipline must then seek approval of their official student program and advancement to candidacy, using the procedures indicated below under "The Program" and "Advancement to Candidacy." Students who are not admitted to a new discipline have the option of continuing to pursue their original objective.

The only exception to the procedures described in the preceding paragraph is for students seeking to change from one degree program to another degree program within the same discipline (for purposes of this regulation, all options offered by the College of Education are considered to be part of a single discipline). In such cases candidates must obtain a Petition to Change Objective from the Office of Enrollment Services, obtain the required department/program signatures, return the completed petition to the Office of Enrollment Services, and then seek approval of their official student program and advancement to candidacy, using the procedures indicated below under "The Program" and "Advancement to Candidacy."

Withdrawal from the Degree Program

If a student wishes to resume graduate study after withdrawal, the student must reapply to the University and to the graduate program. If admitted, the student must be readvanced to candidacy and the department or college may determine that the student's graduate program should be changed.

University Regulations Governing the Master's Degree

General

The following regulations apply to all graduate degree programs. Specific academic and curricular requirements of individual degree programs are given in the departmental listings of this catalog.

All regulations involving a calculation of grade-point average subsequent to admission to the University as a graduate student shall be based on the following common practices and standards.

"Cumulative Graduate Grade-Point Average" shall be calculated on all upper-division and graduate-level coursework attempted by a student at this University after completion of a baccalaureate degree.

Grade-point average standards calculated on the basis of a smaller range, grouping, or set of upper-division and graduate-level courses, for example, "courses in the major" or "courses taken since admission to the degree program," presuppose that the student has met the minimum standard for any larger range, group, or set, including the Overall Graduate Grade-Point Average.

1. A student pursuing the master's degree must maintain a Cumulative Graduate Grade-Point Average of 3.0 (B).

2. At least a 3.0 (B) average must be maintained in the degree program.

3. No course with a grade lower than "C" may be applied toward the fulfillment of degree requirements.

4. Graduate students cannot repeat and delete courses either for credit or to improve their grade-point average, but may repeat and average courses and grades for courses required for the degree.

5. The individual course of studies (student program) for the master's degree must contain a minimum of 30 units in upper-division and graduate courses.

Some degree programs require additional units. Please consult individual degree program requirements.

A minimum of sixty percent of the units required for the degree shall be in the 500- and 600-level series and these shall be completed at this University, consistent with departmental requirements. Student teaching cannot be included in any master's degree program.

6. A thesis, project, or final comprehensive examination must be completed. A minimum of four and a maximum of six semester units shall be allowed for a thesis or project. Failure of the comprehensive examination or thesis requirement is failure of both options. Thus, a student failing the comprehensive examination may not proceed to the thesis/project option or vice versa. Once a student has completed a semester of enrollment towards fulfillment of either the comprehensive examination or thesis/project option, the student may not change from one option to the other without the approval of the faculty concerned, the department chair, and the appropriate dean or designee.

7. No fewer than 24 semester units shall be completed in residence at the University. The Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee may authorize department/college approved substitution of credit earned by alternate means for a part of the residence requirement. Units, including continuing education or extension units, accepted by transfer for application toward the minimum units required for a master's degree cannot be used to fulfill the minimum unit requirements in the 500/600 series. This 500/600 unit requirement must be completed in the major discipline and in residence at this University.

8. All requirements of the degree program must be completed within seven years of the date the student program was initiated, i.e., the date (semester) when the earliest course appearing on the student program was completed. An extension of time beyond the limit may be granted by the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee if warranted by individual circumstances and if the outdated work is validated by comprehensive examination in the relevant course or subject field work, or such other demonstration of competence as may be prescribed by the department and/or college.

9. A graduate student who expects to receive a degree at the end of any semester or summer session must be enrolled during that semester or session and must complete the Request to Graduate Form well in advance. The appropriate request for Spring or Summer candidates must be filed by the preceding October 1; for Fall candidates, by the preceding March 1 at the Office of Enrollment Services. The names of candidates who file within these deadlines will appear in the Commencement Program published each Spring.
Note: Graduate Studies 700 may only be used to fulfill the enrollment requirement if the applicant has completed all degree program courses prior to the semester of graduation. An incomplete grade not otherwise resolved prior to graduation will automatically revert to the letter grade indicated on the "Requirements for Assigning an Incomplete Grade" form. A course with an unresolved grade of RP (Report in Progress) will remain on the transcript but will be removed from the student's program of study. Incomplete grades cannot be resolved after graduation.

10. Proficiency of a student in all parts of a curriculum is determined by the faculty of the University. A favorable vote of the faculty is required for a student to receive the degree.

The Program

A student must consult with the graduate advisor of the department or college to prepare a tentative degree program. After completing prerequisites and other requirements, the student must formulate an official student program and apply for advancement to candidacy.

The department will assign the student a faculty advisor who must be consulted about preparing a degree program. The advisor should have an official evaluation of the student's previous work from the Office of Enrollment Services, although transcripts provided by the student may be used to develop a tentative student program and discuss degree requirements. When the Office of Enrollment Services' evaluation and the results of tests are available, the faculty advisor can assist the student in drawing up the degree program. The student must be approved by the student's faculty advisor, the departmental graduate advisor, and the college dean or director of graduate studies or, for Interdisciplinary Studies, the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee. The student program must list the following:

1. Courses required for removal of undergraduate deficiencies;
2. All courses taken prior to advancement to candidacy which are to apply toward the 30-unit minimum;
3. Rotated courses;
4. Elective courses.

The official student program, when approved, serves as the basis for the Office of Enrollment Services' graduation check which is required before the degree can be granted. Students who have not been advanced to candidacy are subject to all changes as published in the Catalog, Policy Statements, and certifications. Graduate student programs may be revised as the student advances toward the degree. Such revisions must be recommended by the faculty advisor and approved by the departmental graduate advisor and the college dean or director of graduate studies or, for Interdisciplinary Studies, the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee.

Advancement to Candidacy

Advancement to candidacy is the next step after achieving classified status and confers the equivalent of catalog rights on graduate students. Advancement to candidacy also signifies approval of a plan of study by the student's major department and college or, in the case of an Interdisciplinary Studies graduate student, approval by the Director of the Interdisciplinary Studies Program. The prerequisites to advancement to candidacy are:

1. Classified status;
2. Fulfillment of the CSULB Graduation Writing Assessment Requirement (GWAR). Information is available in Testing and Evaluation Services (Brotman Hall 216);
3. A minimum 3.0 overall grade-point average and a 3.0 grade-point average in all units undertaken for the student program (at least 6 units);
4. Enrollment.

All graduate students are required to advance to candidacy when the above prerequisites have been successfully completed. Advancement to candidacy is to occur at least one semester or summer session prior to the semester (session) in which the student expects to graduate. It must occur prior to a student filling the Request to Graduate form with the Office of Enrollment Services. Filing deadlines are the same as for baccalaureate degree candidates. A student must be enrolled in the semester or summer session in which advancement to candidacy takes place. All students must consult with their graduate advisor regarding advancement to candidacy as well as to determine any departmental requirements to graduate from the University.

An approved graduate student program remains in effect as long as a candidate is making satisfactory progress. To insure minimum satisfactory progress toward the degree objective, the student must enroll every fall and spring semester and complete all degree requirements within seven years after completion of the first course on the student program. See also information about Graduate Studies 700 later in this section. The student may not change the graduate major without filing a new application for admission. If admitted to the new discipline, the student must then follow the steps indicated above for obtaining approval of a new student program and advancement to candidacy.

A student entering military service after having been advanced to candidacy will not be considered as having withdrawn from candidacy, provided that the student is honorably discharged, enlisted, or called to active duty during a semester in which enrolled or not more than one semester thereafter, and provided that the student enrolls for work toward a degree within one calendar year of the date of release from service.

Students who have been advanced to candidacy and absent themselves from the University on educational leave will be considered as not having withdrawn from candidacy for an advanced degree, provided the terms of the educational leave are fulfilled. Such students must reapply when returning to the university, but the application fee will be waived.

A department or college recommends a student for advancement to candidacy by forwarding a graduate student program for approval to the college dean or director of graduate studies. After the student's program has been processed and approved, a copy of the completed student program and a letter advancing the student to candidacy will be mailed to the candidate, with copies filed with the department or college and the Office of Enrollment Services.

A student must be enrolled in the semester or summer session in which advancement to candidacy takes place, and this must occur no later than one semester or summer session prior to completion of course requirements. Normally, a student is eligible and should file for advancement to candidacy after completing six units of graduate coursework for the graduate degree program with a 3.0 grade-point average.
Election of Regulations

Graduate students advanced to candidacy will be held responsible for the regulations governing master’s degrees in effect at the time of advancement or at the time the last requirement for the degree is met. A change in master’s degree objective or readmission to a graduate degree program following withdrawal requires that a new student program be filed under the current graduate policies as published in the latest edition of the Catalog.

Teaching Associatehips and Graduate Assistantships

Many CSULB departments have Teaching Associate (TA) and/or Graduate Assistant (GA) positions available for qualified graduate students. Students should check in department offices or on the campus web site for more information.

Comprehensive Examination

Each department or college requiring a final comprehensive examination determines the content of the examination. Such examinations may be written or oral or both. A faculty committee shall represent the department in preparing questions, administering, and reading the examination. Through the comprehensive examination, the faculty provides an opportunity for the master’s degree candidate to demonstrate analytic ability and knowledge of the discipline. Working with the department chair or dean of the college and the appropriate committee, the departmental graduate advisor usually assumes responsibilities for scheduling the examinations and for selecting the other faculty members to participate.

Students may not enroll for courses in preparation for the comprehensive examination or take the comprehensive examination unless they have been advanced to candidacy for the master’s degree or unless advancement to candidacy will occur in the semester in which the enrollment takes place.

During the first semester of residence, the graduate student should ascertain from the faculty advisor what preparation will be expected. Early in the final semester of study for the degree, the candidate should contact the departmental graduate advisor to make arrangements for taking the examination. The department or college will notify the Office of Enrollment Services whether the student has passed or failed the final comprehensive examination. A candidate who has failed will usually be allowed to take the final comprehensive examination a second time, and the departmental graduate advisor should be contacted for specific procedures for the second attempt.

To award a candidate the master’s degree for a particular semester, the results of the comprehensive examination must be reported to the Office of Enrollment Services prior to the end of the semester.

Theses and Projects

A student may enroll for Thesis (course 698 or 699) only when that student has been advanced to candidacy for the degree or when advancement to candidacy will occur in the semester of initial enrollment in Thesis.

Theses and projects submitted in partial fulfillment of the requirements for a graduate degree at this University shall meet the following definitions established by the Trustees of the CSU.

A thesis is a written product of the systematic study of a significant problem. It clearly identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. Normally, an oral defense of the thesis will be required.

A project is a significant undertaking appropriate to the fine and applied arts or to professional fields. It evidences originality and independent thinking, appropriate form and organization, and a rationale. It is described and summarized in a written abstract that includes the project’s significance, objectives, methodology, and a conclusion or recommendation. An oral defense of the project may be required.

Students are responsible for understanding the definition of a graduate thesis as outlined above and must follow the format guidelines prescribed by the University and department in which the thesis is completed.

Thesis Committees

A student’s thesis committee shall consist of at least three members qualified in the areas relating to the thesis. At least two shall be full-time faculty members at CSULB, one of whom must be tenured or tenured-track. The chair of the thesis committee must be a tenured or tenure-track faculty member from a department authorized to offer a graduate degree. The thesis committee must be approved by the appropriate department graduate advisor and the college associate dean or director of graduate studies. Normally the chair of the committee also serves as thesis director, but this is not necessarily so. The thesis director must be a person qualified in the specific area of the thesis, but need not be a tenured or tenure-track faculty member. The committee shall be responsible for the guidance of the student throughout the thesis effort. Any change in the composition of the committee requires justification and must be approved by the appropriate department graduate advisor and college associate dean or director of graduate studies.

Thesis committee members will advise and direct students in their thesis work and ensure that the thesis meets the standards and definition of a thesis specified above.

Thesis committee members will determine the grade to be awarded for completion of the thesis; and by signing the thesis signature page, thesis committee members certify that they have determined that the thesis meets the required standards of scholarship, format, and style of the discipline.

When the thesis committee includes a thesis director who is not the chair of the committee, this person may be identified on the thesis approval page as "Thesis Director.”

Thesis Committee Chairs

Thesis committee chairs will determine that the student has the proper preparation in terms of coursework and research skills to pursue the proposed thesis.

In departments where this function is not carried out by graduate advisors, thesis committee chairs will advise the student in the selection of other members for the thesis committee, ensuring that the other members are appropriate to the proposed thesis effort.

Thesis committee chairs will be the major contact point with the student and will oversee the other committee members’ work with the student.
Thesis committee chairs will assume that the editorial and format standards appropriate to the mechanical preparation of a thesis are followed.
Thesis committee chairs will establish guidelines for the student and timetable to be followed to ensure completion of the thesis in a reasonable time.
Thesis committee chairs will arrange for the oral defense of the thesis when required.
The thesis committee chair is responsible for canvassing the committee and reporting the grade agreed upon by its members. After the completed thesis has been reviewed by the University Thesis and Dissertation Office for conformance with prescribed format criteria and the approval page has been signed by the committee and by the dean or department chair, as appropriate, the final grade will be submitted.

Thesis and Dissertation Office
All theses must be acceptable for deposit in the University Library. The Thesis and Dissertation Office in University Library will verify that each thesis meets the format criteria prescribed by the department or degree program and by the University and that it meets all University procedural requirements for theses. Students should consult the University Thesis and Dissertation Office for information, advice, and assistance on the mechanics of preparing a completed thesis and should purchase a copy of Master’s Theses and Projects: Guide to Style and Format (copies of this guide can also be checked out from the reserve desk in University Library). The Thesis and Dissertation Office also conducts workshops on how to prepare a thesis or dissertation at CSULB.

Academic Probation and Disqualification
Graduate Students

For purposes of determining eligibility to remain at the University, both quality of performance and progress toward the student’s objective will be considered. Eligibility will be determined by use of grade points and grade-point average.

Students who are enrolled in a graduate degree program in a conditionally classified or classified standing will be subject to academic probation if they fail to maintain a cumulative grade-point average of at least 3.0 (as defined earlier under General Regulations Governing the Master’s Degree) in all units attempted subsequent to admission to the degree program. Every graduate student who has been advanced to candidacy must maintain a cumulative grade-point average of 3.0 and a grade-point average of 3.0 in all courses applicable to the degree. Candidacy for an advanced degree may be revoked if a student’s cumulative grade-point average falls below 3.0 at any time. Students who become subject to dismissal from an advanced degree program will be notified of the action taken by the college associate dean for graduate studies or the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee.

Graduate and post-baccalaureate students are subject to disqualification if within two semesters while on probation they fail to earn sufficient grade points to be removed from probationary status. Disqualification will bar a graduate student from registering as a matriculated student at this campus. Furthermore, subsequent removal of GPA deficiencies by enrolling through UCES or at another university does not guarantee readmission to CSULB. A graduate student who has been disqualified must file a new application and be accepted by the department with the approval of the Associate Dean of the College.

Other Post-Baccalaureate Students

A post-baccalaureate classified student who fails to maintain a cumulative grade-point average of 2.5 on all units attempted at the University will be placed on probation.

A student on probation who, prior to the beginning of the next term, fails to attain a cumulative grade-point average of 2.5 on all units attempted at the University will be disqualified.

A student who is disqualified because of scholastic deficiency may petition the appropriate program authority for readmission only after an absence of two semesters or upon successful completion of summer session courses which remove the grade-point deficiency.

Petitions for readmission must indicate the reason for requesting readmission and must include a statement of any academic work successfully completed since disqualification or of any other activity which gives evidence in support of the petitioner’s belief that readmission is warranted. An application for admission and required transcripts, as well as the petition, must be submitted to the Office of Enrollment Services before the dates established by the University for filing applications.

Academic Credit

Credit/No Credit Grading

A graduate student may take courses at the 100/200/300/400 levels under the Credit/No Credit grading policy; however, no course in which a grade of “CR” has been assigned may be used to fulfill the requirements for a master’s degree, except that the grade of “CR” may be permitted for master’s theses or projects to a maximum of six units when the individual department has specifically designated Credit/No Credit grading for the thesis/project course in the department and for field work, practicum, and/or internship courses.

For graduate students, courses at the 300/400/500/600/700 levels require “B” level proficiency to merit award of the “CR” grade; at the 100/200 levels “C” level proficiency or better is required for award of the “CR” grade.

The option of Credit/No Credit grading for graduate students on 100/200/300/400-level courses is subject to specific regulations of the individual departments regarding their graduate students and regarding the authorization for this option intrinsic to the approved course. Otherwise, no limitation exists as to the number of courses taken under this policy.

Waiver of Course Requirement and Credit by Examination

No waiver of course requirements or credit by examination may be used to satisfy master’s degree requirements.

The following rules govern course waivers or credit by examination in satisfying prerequisites for admission to candidacy in any master’s degree program.

Any candidate for a master’s degree who believes that previous training has provided adequate preparation in a certain area may request a waiver from the department concerned.
A candidate may also apply for course credit by examination, but only for prerequisite courses and not to satisfy any of the requirements for the master's degree. Requests for such examinations must be made to the department concerned and approved by the departmental chair. Credit by examination is restricted to courses published in the current CSULB Catalog. Please see Credit by Examination in the General Regulations section of this catalog.

All course credit by examination will be recorded as CR (Credit) and will not be included in calculation of grade-point averages; such credit may not be used to remove a grade of "D" or "F" in a course already attempted, nor may course credit by examination be granted for any course which is a prerequisite to one for which credit has already been received.

Graduate Transfer Units by Extension

At the option of the college or department offering an advanced degree requiring a total of 30 units, up to 6 units of approved extension/continuing education or transfer credit is acceptable on graduate student programs. At the option of the college or department offering a graduate degree requiring a total of 30 units, this limit may be raised to 9 units of extension/continuing education credit if taken at CSULB. These limits may be increased further for graduate degrees requiring more than 30 units provided that: (1) no graduate degree may be awarded by CSULB unless at least 24 units are taken in residence, and (2) no graduate student program may use either extension/continuing education or transfer credit to satisfy the requirement that at least 60 percent of the total units be taken at the 500 and 600 levels. Extension courses completed at campuses including California State University, Long Beach shall be acceptable within the six-unit transfer limit, provided the work can be properly evaluated and the course is acceptable as graduate work for an equivalent graduate degree on the campus where taught. Extension/continuing education and transfer course material shall be evaluated and approved by CSULB faculty teaching in the topic area in conjunction with the department graduate advisor and college associate dean or director of graduate studies. Final approval/disapproval shall be the responsibility of the Vice Provost for Academic Affairs and Dean of Graduate Studies or his/her designee.

Extension/continuing education credit may not be used to reduce the minimum units required in a discipline for a master's degree, that is, extension credit may be used to complete coursework required outside the discipline. Excess grade points earned in extension classes may not be used to offset a grade-point deficiency in the total graduate record.

Grades earned at another institution may not be used to offset grade-point deficiencies in courses taken at this University. However, grades of "C" earned at another institution in courses transferred to satisfy subject matter requirements for an advanced degree at this institution must be balanced by grades of "A" at this University to meet the required 3.0 ("B") overall average. Credit earned by correspondence or by examination cannot be used to satisfy master's degree requirements.

Graduate Studies 700

Every semester, graduate students must be registered in a course or in GS 700 or must have an approved educational leave. Registration in GS 700 is restricted to graduate students who have completed all course work, have been advanced to candidacy, and have departmental approval. Registration in a course or in GS 700 also is required in winter or summer session if that is when a student plans to graduate. Although no unit credit is added to the student's program or transcript, GS 700 is considered as one unit of concurrent enrollment credit for fee payment purposes, payable at University College and Extension Services (UES) located at 6300 State University Dr., Ste. 104. Application forms are available from UES and must be approved by department graduate advisors. Registration in GS 700 is CR/NC only.

Academic Load

Nine units per semester is a normal academic load for a full-time graduate student engaged in study toward a master's degree. If a candidate wishes to exceed this limit, it should be discussed with the departmental graduate advisor. The maximum load for graduate students working toward a master's degree is 16 units per semester. Students who are employed full-time should not exceed six units per semester.

Graduate students who wish to register for more than one unit of credit per week of attendance during the summer session must secure advance approval from the college associate dean or director of graduate studies. Petition forms and information may be obtained in the college offices.

Honors for Graduate Students

Graduate Dean's List

The Graduate Dean's List provides for university recognition of its most outstanding graduate students. Candidates for this honor will normally have completed all the coursework applicable to their graduate student programs at this university. The annual list is limited to 10 percent of the university's graduate enrollment. Those honored will be named in the Commencement Program and will receive a certificate from the administrator in charge of graduate programs or designee.

Departmental Graduate Student Honors

In recognition of outstanding graduate student achievements, departments may honor graduating master's and doctoral degree candidates by special recognition in the annual commencement ceremonies. The number of honors awarded by a department shall be limited to three students or five percent of graduates, whichever is larger. Departmental honors are noted on the student's transcripts. Departmental honors are usually restricted to students not otherwise recognized by university or college awards. These honors are normally conferred for excellence in and contributions to the discipline, including outstanding seminar papers, artistic exhibitions, special achievements in field work, and in university committees and functions, as well as participation in scholarly and professional organizations resulting from student research.

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ACCOUNTANCY
College of Business Administration

Department Chair: Steven A. Fisher
Department Office: College of Business Administration (CBA) 411
Telephone: (562) 985-4650
Website: www.csulb.edu/depths/accounting

Faculty: David Bojanczyk, Michael Chhas, Michael Constantin, Steven Fisher, Deborah Grace, Herbert G. Hunt, III, Sudha Krishnan, John Luo, Ping Lin, Silkantha Mahapatra, Joe K. Shim, Rodney Smith, Judy Yin

Administrative Support Coordinator: Kellee Zbromak

For MBA with Specialization in Accountancy, see Business Administration, Graduate Programs.

Career Possibilities
Accountant • CPA • Cost Accountant • Auditor • IRS Agent • Financial Analyst • Bank Officer • Controller • FBI Agent • Management Information Systems Manager • Credit Analyst, Financial Analyst • Appraiser • Banker • Contract Administrator • Stock Broker (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Business Administration

Requirements
In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. Lower Division: ACCT 201; ECON 100, 101; BLAW 220; MATH 108 or 114, 115.
2. Ethics Course Requirements: PHIL 160, CBA 400J or PHIL 400L.
3. All business and pre-business majors shall demonstrate computer literacy and competency prior to taking junior and senior level courses. Requires one of the following:
   A. Passing score (70%) on the Computer Proficiency Examination (CPE).
   B. Completion of IS 233 with Credit (C) or "C" or better grade in a transfer equivalent course.
4. Upper Division:
   A. CBA 300, ACCT 320; ECON 333; FIN 300; BLAW 320; IS 300, 301, 310; HRM 360; MGMT 300, MKTG 300.
   B. MGMT 425 (Capstone) must be taken at CSULB as a senior and after upper division prerequisite core courses have been completed (ACCT 320, FIN 300, MGMT 300, MKTG 300, IS 301).
   C. Completion of Accountancy Option requirements.

5. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

Option in Accountancy
(code ACCTBS01) (120 units)

The Accountancy curriculum is designed to meet the general education goals of those entering the accounting profession. It satisfies the requirements established by the American Institute of Certified Public Accountants and may be used to meet educational requirements for the California CPA Certificate. The accounting program develops an understanding of an organization's management information system on a broad base of general education and business administration courses. The program is carefully planned and rigorous, building the conceptual, analytical, and communication skills necessary to succeed in the accounting profession. It prepares students for careers in all areas of accounting, including the necessary qualifications for professional examinations such as the C.P.A., C.M.A., C.I.A.

Requirements
1. ACCT 300A-B, 351, 400, 470, 480;
2. One course from ANTH, PSY, or SOC.

Courses (ACCT)

LOWER DIVISION

201. Elementary Financial Accounting (3)
Introduction to financial accounting practice.
For business majors. Laboratory and/or class computer applications required.

UPPER DIVISION

300A-B. Intermediate Accounting (4-4)
Prerequisites: 300A, ACCT 201 or equivalent with a grade of "C" or better, 300B: ACCT 300A with a grade of "C" or better.
Accounting theory including recording, valuation, and statement presentation of assets, liabilities, capital, and earnings. Funds statements, financial analysis, compound interest theory, and applications. Laboratory and/or class computer applications required.

310. Cost Accounting for Managers (3)
Prerequisites: ACCT 201 or equivalent.
Use and interpretation of financial statements. Evaluation of accounting information systems. Accounting for and analysis of costs. Managerial use of accounting data for planning and decision making. Not open to accounting majors for course or unit credit. Laboratory and/or class computer applications required.

320. Cost Accounting (4)
Prerequisites: ACCT 201 or equivalent with a grade of "C" or better.
Theory and practice of cost accounting. Managerial use of cost accounting data for planning, controlling, and decision making. Emphasis on cost accumulation and management information systems. Laboratory and/or class computer applications required.

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350. Individual Income Taxation (3)
Prerequisites: any upper division accountancy course with a grade of "C" or better.
Federal income taxation of individuals and property transactions. Coverage of tax research methodology and communication of research results. Laboratory and/or class computer applications required.
Letter grade only (A-F).

351. Federal Tax Law II (4)
Prerequisites: any upper division accountancy course with a grade of "C" or better.
Federal income taxation of partnerships, corporations, and S corporations. Personal and family tax planning and ethics.
Laboratory and/or class computer applications required. Not open for credit to students with credit in ACCT 451.

400. Advanced Accounting (4)
Prerequisites: ACCT 300B with grade of "C" or better, IS 301.
Specialized problems in partnership and corporate accounting, consolidations, foreign currency transactions, and translations. Fund accounting and selected topics.
Laboratory and/or class computer applications required.

465. International Accounting (4)
Prerequisites: Any 300 level accounting course with grade of "C" or better, IS 301.
Laboratory and/or class computer applications required.

470. Auditing (4)
Prerequisites: ACCT 300A, 300B, 320 with grades of "C" or better, IS 301.
Problems of verification, valuation and presentation of financial information in reports covered by opinion of independent public accountant. Major concepts of operational auditing and relationship to independent audit. Public accountant and internal auditor responsibilities. Rules of professional conduct.
Laboratory and/or class computer applications required.

480. Accounting Systems and Data Processing (4)
Prerequisites: IS 300, ACCT 300B and 320 with grades of "C" or better, IS 301.
Familiarization to accounting information systems development process. Analysis, design, development, and implementation of accounting information systems. Automation of accounting information systems studied through use and application of computers.
Laboratory and/or class computer applications required.

493. Accounting Internships (3)
Prerequisite: ACCT 300B, Accounting GPA 3.0, overall GPA 3.0.
Real world accounting experience by working in public accounting or accounting divisions of private industry or governmental agencies. Class seminar analysis and evaluation of academic theory in terms of the real world environment.

495. Selected Topics (1-4)
Prerequisite: Consent of instructor.
Intensive study of current topics in accounting.
May be repeated for a maximum of 8 units. Topics to be announced in the Schedule of Classes.

497. Directed Studies (1-4)
Prerequisites: Consent of instructor and department chair, or Dean’s List. Accounting GPA 3.0.
Advanced individual projects, study, and research in accounting.
ADVANCED STUDIES IN EDUCATION
AND COUNSELING
College of Education

Department Chair: Jennifer Coets
Department Assistant Chairs: Bita Ghafoori, Hiromi Masunaga
Department Coordinator: Susan Goldman
Department Office: Education (ED) 1 Room 10
Telephone: (562) 985-4517
Email: edpac@csulb.edu
Department website: http://www.csulb.edu/edpac
College website: http://www.coed.csulb.edu
FAX: (562) 985-4524


Introduction
The Department of Advanced Studies in Education and Counseling offers graduate level courses in the following program areas: Educational Administration, Educational Psychology, Librarianship, Educational Technology, Social and Cultural Analysis of Education, Marriage and Family Therapy (MFT), School Counseling, School Psychology, Student Development in Higher Education, and Special Education/Education Specialist, as well as undergraduate service courses in life skills and other areas.

Students desiring information should contact the department office for referral to one of the faculty advisors. All CED graduate level courses (500-600) are assumed to be letter grade only (A-F) unless stated otherwise.

Graduate Degrees
Master of Arts degrees in Education with the following options are offered:

- Educational Administration
- Educational Psychology
- Librarianship
- Social and Cultural Analysis of Education
- Educational Technology

Two Master of Science degrees are available:

- Special Education
- Counseling

MS in Counseling offers five options:

- Career Counseling (Temporarily suspended for new admissions)
- Marriage and Family Therapy
- School Counseling
- Student Development in Higher Education

Credentials
The department offers credentials in Administrative Services (Preliminary and Professional), Pupil Personnel Services (School Counseling, School Counseling Internship, School Psychology, School Psychology Internship), Education Specialist/Special Education (Mild/Moderate and Moderate/Severe) and Teacher Librarian Services. In addition, a Graduation Certificate in Career Guidance Specialist and Community College are offered. (Please note: the Graduate Certificate in Career Guidance Specialist is under consideration for discontinuance.)

Required credential courses must be completed with a grade of "C" or better. The minimum grade point average for successful progress in the credential programs of the department is 3.0 on all units to be applied to the credential program. Students falling below 3.0 will be placed on probation. To maintain status in the credential program students must earn sufficient grade points to bring GPA back to 3.0 by the end of the regular semester following the semester in which the GPA fell below 3.0. Refer to this Catalog for policy.

Interdisciplinary Minor in Crosscultural Language and Academic Development Studies (code COEDUM01)

The minor comprises courses that integrate studies of culture, language, learning and the academic environment, and human development. It is an interdisciplinary program designed to support career objectives related to public education in Crosscultural Language and Academic Development. The minor consists of a minimum of 18 units selected with an advisor. Courses in the department of the student's major may not be used.

1. One course from each of the following areas (12 units):
   - Culture: ANTH 421/LING 425 or EDP 432/EDEL 430
   - Language: EDSG 454 or LING/CD 329
   - School: EDP/LING 485
   - Development: EDP 301, 302, HDEV 307I, or PSY 361

2. Six additional units, selected with an advisor, from the following:
   - Culture: AIS 319, ASAM 319, AFAR 319, CHLS 319, WGS 319, ANTH 329, ANTH 421, ANTH/LING 413, ANTH 419, ANTH 421/LING 425, ANTH/WGS 475, CHLS/ASAM 336I, EDP 432/EDEL 430
   - Language: ANTH 170, CHLS 402, EDSG 454, LING/CD 329, ENGL 327, LING 363I, 435, 472, 486
   - School: ASAM 310, AFAR 420, CHLS 340, EDP 305, EDSG 350
   - Development: EDP 301, 302; HDEV 307I; PSY 361

Master of Arts in Education

Please submit a separate program application as well as a University application for all masters and credential programs. Program application dates may vary (please see individual program).

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Option in Educational Administration  
(code EDADM A01)

Educational leaders serve in many capacities. No matter what position an individual holds within an educational organization, all efforts should be directed at supporting the equitable academic achievement of all students being served. The courses in the Educational Administration Option are designed to prepare leaders for this important work. Emphasis is placed on 1) examining the role of schooling in a democratic society, 2) multiple and varied aspects of educational leadership, 3) building collaborative, 4) managing and guiding change, and 5) working with diverse populations. The program’s primary mission is to educate candidates who will assume leadership positions in diverse, urban, K-12 schools and districts.

Prerequisites

15 upper-division units in education including EDP 400 or equivalent experience.

University Admission

A “University Application for Graduate Admission” along with one complete set of official transcripts must be filled with the University Office of Admissions. An online University application may be found at www.csumentor.edu.

Conditional Admission to the Program

A separate “Preliminary Administrative Services Masters/ Credential Program Application” must be on file with the College of Education Graduate Office (ED1-7) along with one complete set of official transcripts and forms 1-3 listed below no later than March 1 for fall admission:
1. Transcripts verifying a minimum 2.85 overall GPA in the last 60 semester (or 90 quarter) units of coursework taken;
2. Two non-confidential letters of recommendation (following Letter of Recommendation Guidelines found with program application) from individuals familiar with the candidate’s professional competence and potential as an educational leader. One letter must be from the candidate’s principal or immediate supervisor;
3. A double-spaced typed personal statement (following Personal Statement Guidelines found with program application) describing the candidate’s educational preparation, leadership experiences, and leadership philosophy;
4. Participation in a screening process that includes an oral interview that may require submission of an onsite impromptu writing sample.

Clear Admission to the Program (Advancement to Candidacy)

In addition to 1-4 above, a candidate must:
1. Fulfill the Graduation Writing Assessment Requirement (GWAR);
2. Complete EDP 400;
3. Resolve all incomplete grades;
4. Complete the following core courses: EDADM 541 and one other EDADM course for a total of six (6) units;
5. Maintain a 3.0 grade point-average;
6. Complete an approved Advancement to Candidacy form in consultation with a program advisor.

Requirements

A minimum of 30 units with a 21 unit concentration in Educational Administration is required: 21 units must be at the 500/600 level taken at this university.
1. One of the following (3 units): EDP 575, 576 or 672;
2. One of the following (3 units): EDP 520 or 595;
3. One of the following chosen in consultation with the faculty advisor: EDADM 655 (3 units) or EDADM 656 (6 units);
4. All of the following (21 units): EDADM 541, 544, 647A, 647B, 677A, 677B, 649.

Option in Educational Psychology  
(code ED_PMA02)

The Option in Educational Psychology is a research-oriented program designed for students and educators to develop their understanding of learning and development, testing and assessment, research, and program evaluation in education. This program offers a rigorous curriculum in these areas and requires that the student declare a “foundation” emphasis within the Option. There are two Tracks in this Option: Track 1 (MA, Option in Educational Psychology) and Track 2 (MA, Option in Educational Psychology plus School Psychology Credential Program). Admission to the MA, Option in Educational Psychology does not guarantee acceptance to the highly competitive School Psychology Credential Program.

Admission Requirements

University Admission Application

1. File an Application for Graduate Admission along with one complete set of official transcripts with the University Office of Admissions prior to March 1 for consideration to enter the fall semester. Online application at www.csumentor.edu.

Conditional Admission to the Program

1. Meet University admission requirements.
2. Complete a program application (see application for requirements) and submit it to the Graduate Office in the College of Education (ED1-7) with official transcripts, one from each college attended. Transcript must verify a GPA of 3.00 or higher in the last 60 semester (or 90 quarter) units of college coursework taken. Evidence of completing at least a baccalaureate degree majoring in the behavioral sciences, education, or a related program prior to beginning of the MA, Option in Educational Psychology is required. (Applicants with other majors should seek advisement from the program faculty.) The program application is separate from the University application.
3. Send an official transcript of test scores obtained from the Educational Testing Service (ETS) for the Graduate Record Exam (GRE) General Test to the Graduate Office in the College of Education. For admission consideration, the criterion is a combined Verbal and Quantitative score of 1000.
4. For international students, whose primary language is not English, in addition to GRE scores, send an official transcript of a test score obtained from the Educational Testing Service (ETS) for the Test of English as Foreign
5. Program application deadlines for consideration to enter the Fall semester: March 1 (for Track 1) and February 13 (for Track 2). Check the CSULB Catalog and the program website (http://www.csulb.edu/psych) for further information on the application to Track 1. The Track 2 application is combined with the application to the School Psychology Credential Program. Check the CSULB Catalog and the program website (http://www.csulb.edu/psych) for further information on the application to Track 2 (MA, Option in Educational Psychology plus School Psychology Credential Program) and the School Psychology Program.

6. Official transcript(s), GRE scores, and TOEFL score if applicable, must be on file in the Graduate Office in the College of Education no later than March 1 (for Track 1) and February 13 (for Track 2) for consideration to enter the Fall semester.

7. Note: "Conditional admission" status does not guarantee clear admission to the master's program.

Clear Admission to the Program
(Advancement to Candidacy)

The catalog published in the academic year in which the student is advanced to candidacy governs the course of that student's program. In addition to 1-6 above, a candidate must:

1. Fulfill the Graduate Writing Assessment Requirement (GWAR).

2. Complete the following prerequisites:
   - **Track 1**: EDP 301 or 302; and EDP 305, 419 and EDP 350; or acceptable equivalents
   - **Track 2**: EDP 301 or 302; and EDP 405 and 419, or acceptable equivalents

3. Complete 6 to 9 units of core courses.

4. Maintain a 3.0 grade point average on the prerequisites plus 6 to 9 units of core courses.

5. Resolve all incomplete grades.

6. Complete an approved plan of study in consultation with the program advisor.

Program Requirements

MA Objective (Track 1)

The degree objective requires a total of 33 units (not including prerequisites) made up of a 27-unit core and a 6-unit “foundation” that culminates in either (a) a master’s thesis or (b) a written comprehensive examination.

1. Degree Core:
   - A. EDP 519, 520, 524A, 524B (2 units), 579 (4 units), 604, and 605
   - B. EDP 525A and 525B (2 units)

2. For the “foundation” culminating in a master’s thesis, the student completes all of the above 27 units of core courses plus 6 units of EDP 606. For the “foundation” culminating in a written comprehensive examination, the student completes all of the above 27 units of core courses plus 6 units of 500/600 level electives selected with the approval of the program advisor.

3. For the “foundation” culminating in a master’s thesis, the student is strongly encouraged to complete EDP 606 as a 500/600 level elective.

Option in Educational Technology
(code ED_PMA05)

Serving the mission of enhancing education through the use of technology, educational technology specialists perform many functions in schools, educational institutions, and training agencies. This option prepares leaders in the field who will evaluate, design, and effectively use technology for educational purposes. Combining both theory and practice, this option is designed for individuals seeking career growth in K-12 and university settings and for those planning to doctoral degrees.

Admission to the Program

Submit a Master of Arts in Education, Option In Educational Technology application to the College of Education Graduate Office along with one complete set of transcripts no later than March 1 for fall admission or October 1 for spring admission. Including information to satisfy the requirements below. (Items 1-6 are required, and item 7 is optional.)

1. A bachelor’s degree from an accredited college or university.

2. Upper-division coursework in statistics and research.

3. Upper-division coursework in the use of technology and computer applications (3 units), e.g., ETEC 411, ETEC 444, or equivalent experience (see advisor).

4. A 3.0 GPA (on a 4-point system) in the last 60 units of upper division and/or graduate course work completed at an accredited college or university and a 3.0 GPA in all prerequisite course work.

5. Three (3) letters of recommendation, preferably from teachers, supervisors or colleagues in education or related fields.

6. A word-processed personal statement -- see the program application for the specific questions to address.

7. (Optional). Applicants are encouraged, but not required, to submit an official transcript of scores obtained from the Graduate Record Exam (GRE) General Test, the Graduate Management Admission Test (GMAT), or the Miller Analogies Test (MAT).
University Admission

Meet University admission requirements. Submit an Application for Graduate Admission along with one complete set of official transcripts to the University Office of Admission no later than March 1 for Fall consideration and no later than October 1 for Spring consideration.

Advancement to Candidacy

1. Provide evidence of passing the Graduation Writing Assessment Requirement (GWAR).
2. Maintain a 3.0 GPA in all course work.
3. Resolve any Incomplete grades.
4. Complete all prerequisites and at least six units of the program in residence at the University.

Requirements

Students must submit a minimum of 30 units of upper division and graduate courses, of which at least 21 units must be at the 500-600 level taken at this University. With consent of the program advisor, students may count up to 6 units of previously taken graduate courses toward the degree. However, a student who completes a 6 unit thesis or project may possibly count 9 units of previously taken course toward the degree.

1. Core courses (21 units):
   A. Research Methods: EDP 520 (must also complete course prerequisites: ED P 400, ED P 419, or equivalent.)
   B. Educational Technology: ETEC 510, 523, 525, 530, 551, and 570.
   2. Electives (6 units): In consultation with program advisor, students will select 6 additional units. Options include, but are not limited to, the following:
      A. Educational Technology: ETEC 535, 580;
      B. Educational Psychology: EDP 665, 666;
      C. Librarianship: ELIB 500A, 500B, 540, 550;
      D. Special Education: EDSP 542;
      E. Computer Science: CECS 401E, 410E;
      F. Other courses, including those outside the College of Education, chosen in consultation with program advisor.
3. Exit requirement (3-6 units): a) Electronic portfolio with interview and one of the following chosen in consultation with the program advisor:
   A. Pass a comprehensive examination;
   B. EDP 699 (6 units) Project with written Project Report;
   C. EDP 698 Theses (6 units).

Option in Librarianship (code ED_PMA06)

The Master's degree option in Librarianship provides a rigorous academic foundation for professional leadership in library and information professions. Applicants must complete at least 18 units in the area of specialization, 3 units in a second specialty, and at least 24 units in graduate courses listed in the program. They must also complete a minimum of 6 units in an area of specialization. This option is available to both full-time and part-time students.

Admission to the Program

Prerequisites: completion of a bachelor's degree; a current valid basic teaching credential (elementary, secondary, or special education credential) for the Teacher Librarian (TL) strand only.

Clear Admission

1. Meet University admission requirements.
2. A minimum 3.0 overall GPA in the last 60 semester units of course work (provide official copy of transcripts to the University and photocopy of transcripts to the program).
3. Three letters of recommendation from individuals familiar with your professional competence and potential as a librarian.
4. A written personal statement describing your educational and experiential background, and professional goals.
5. Current resume.
6. Screening interview.

Advancement to Candidacy

1. Fulfill the Graduation Writing Assessment Requirement (GWAR).
2. Maintain a 3.0 GPA from the time of admittance to the program.
3. At least six units completed in the approved program.

Program Requirements

A minimum of 36 units is required, with at least 24 units in the 500-600 level series taken at this University. In consultation with the advisor, a comprehensive examination or thesis track is selected.

Note: This information does not include all of the requirements for the Teacher Librarian Services Credential, which is typically pursued simultaneously with the Master of Arts degree. For additional information, go to www.csulb.edu/lmr.

Core Requirements

1. Core courses (21 units):
   A. Library Media: ELIB 500, 510, 520, 540, 550;
   B. Technology: ETEC 510 or ETEC 523 (or PPA 521 for public services);
   C. Research methods: EDP 520 or 595;
2. Electives (9 units): The balance of the program is completed through advisor-approved electives. Choices include, but are not limited to, the following:
   A. Youth services: ELIB 530A, 530B; EDCL 625;
   B. Higher education services: COUN 531, 548, 552; EDP 490;
   C. Public services: FCS 529; PPA 500, 525, 533, 535;
   D. Advanced technology: ETEC 530, 551, 553, 623.
3. Field experience (3-4 units): ELIB 580 or ETEC 580.
4. One of the following chosen in consultation with the faculty advisor upon advancement to candidacy (3-6 units):
   A. Comprehensive examination and EDP 697 (3 units); or
   B. Thesis and EDP 698 (6 units)

Option in Social and Cultural Analysis of Education (code ED_PMA03)

The Master of Arts Degree in Education, Option in Social and Cultural Analysis of Education (SCA), focuses on the social and cultural analysis of education in urban and international contexts. Emphasizing critical approaches to

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education, including critical theory and critical pedagogy, the degree’s interdisciplinary nature provides the intellectual rigor necessary for analyzing the relationship between education and society and effecting social and educational justice. SCAE courses examine education in its historical, social and political contexts, and may be applied to all levels of education—locally, nationally, and internationally. After completion of the program, graduates have a variety of career choices, not only in the educational realm, but also in the private sector and in non-governmental organizations. The program also serves as an ideal foundation for further academic study at the doctoral level.

Admission Procedures
Prerequisites: All applicants must hold a bachelor’s degree or the equivalent.

Consideration for admission requires submission of a program application and university application simultaneously. Both applications must be received no later than March 1 for fall semester consideration. Failing to supply a complete application by the deadline to either the program or the university may jeopardize acceptance into the program.

Submit the following program application materials in the order listed below to the College of Education Graduate Studies and Research Office in one complete package:
1. A completed program application form.
2. A three page double-spaced typed written personal statement. See the current program application for specific topics to address.
3. Two academic or professional letters of recommendation that evaluate the applicant’s academic abilities and suitability for graduate level study. At least one recommendation should be from a former university instructor, and all letters must be typewritten and on letterhead.
4. One complete set of official transcripts from all educational institutions attended, excluding CSULB. Transcripts must verify a minimum grade point average of 3.0 in the last 60 semester (or 90 quarter) units of course work for the undergraduate degree.
5. One representative sample of the applicant’s academic writing. See the current program application for further details.

An application packet containing more detailed information regarding the application process may be downloaded from the program website. Applications will be considered by an admissions committee, and submitting a complete application does not guarantee admission into the program. A telephone or in-person interview may be required as part of the admissions process.

The simultaneous university admission procedure requires an Application for Graduate Admission and one complete set of official transcripts from all educational institutions attended. Applicants may submit their university applications through CSU Mentor (www.csumentor.edu) or in person with the University Office of Admissions. Both the university and the program application must be received no later than March 1 for fall semester consideration.

Admission is conditional until the applicant achieves Classified Standing.

Classified Standing
Applicants who do not meet all of the requirements for admission or who are not able to submit all of the required application documents may be granted Conditional Classified Standing, based on the recommendation of the Program Admissions Committee. In such cases, applicants will be given a specified period of time after which they must provide evidence of completing all of the requirements set out by the program. Applicants who meet all requirements within the specified time period and continue to demonstrate a satisfactory level of scholastic competence and fitness based on program faculty recommendation achieve Classified Standing.

Advance to Candidacy
Students are expected to advance to candidacy as soon as they are eligible to do so, at which time they receive catalog rights. In order for students to advance to candidacy, they must have:
1. Met with their advisor to plan a course of study.
2. Completed SCAE 550 and SCAE 551.
3. Set their academic, professional and personal goals in consultation with their advisor (facilitated through SCAE 550 and SCAE 551).
4. Completed the Graduation Writing Assessment Requirement (GWAR). See the Catalog for full details.
5. Maintained a 3.0 GPA in all program course work.
6. Resolved all incomplete grades.

Program Requirements
All students must complete thirty-three (33) units of upper division and graduate level courses, of which twenty-one (21) units must be at the 500 or 600 level. Students who complete a master’s thesis or project must enroll in six (6) additional units while completing the culminating experience. For all students, at least twenty-four (24) units must be completed in residency. With consent of the student’s advisor and after following procedures for course equivalencies, students may count up to six (6) units of previously taken graduate courses toward the degree. A student who completes a thesis or project may potentially count up to nine (9) units of previously taken graduate courses toward the degree. The program includes the following requirements:

1. Core courses (2 courses, 6 units): SCAE 550 and SCAE 551.
2. Emphasis Area Courses (3 courses, 9 units) in one emphasis area:
   a. International Contexts: SCAE 566, SCAE 567, SCAE 568, SCAE 564 (choose 3) OR
   b. Urban Contexts: SCAE 560, SCAE 561, SCAE 562, SCAE 564 (choose 3)
3. One Course in Second Emphasis Area (3 units): Choose one course from the SCAE 566-568 series for international contexts or from the SCAE 560-562 series for urban contexts.
4. Electives (2 courses, 6 units): Chosen in consultation with faculty advisor
5. Research Methods Courses (2 courses, 6 units): EDP 400 and choose either EDP 520 or EDP 595.
6. Capstone Course (3 units): SCAE 695.
7. Culminating Experience: In consultation with faculty advisor, choose one: 1) comprehensive examination, 2) six units of EDP 698: Thesis over two semesters, 3) six units of EDP 699: Project over two semesters.

Master of Science in Counseling

Counselors serve valuable functions in fields of education, health and human services, and business. Their domains of practice include public and private educational institutions, medical facilities and allied health agencies, social service agencies and organizations, state and federal human service agencies and programs, correctional facilities, business and industry, and private practice.

The program’s philosophy is to introduce students to a variety of approaches to counseling, and to encourage the development of competencies within those approaches.

The program combines theory and practice utilizing on and off campus course work and field work assignments. Required courses are offered predominantly in the evening, but most field assignments require daytime participation during normal business hours defined by the off-campus sites.

Students coming from diverse experiential backgrounds are trained at the graduate level to be able to perform entry level duties expected by the counseling profession and its specialty areas. Students are prepared to assume future leadership positions in their area(s) of expertise after additional work experiences have been acquired in the field following graduation.

The Master of Science in Counseling Program consists of four options:
1. Career Counseling (Temporarily suspended for new admissions)
2. Marriage and Family Therapy;
3. School Counseling;
4. Student Development in Higher Education;

The total number of courses needed to satisfy requirements for graduation depends upon the option selected by the student.

University Admission

File an Application for Graduate Admission along with one complete set of official transcripts from all educational institutions with the University Office of Admissions by the program application deadline.

Program Admission

To download program applications and verify specific program application deadlines, see the Graduate Studies Office website at www.csd.csulb.edu/graduate.

File a completed Master of Science in Counseling application to only one program option area with the College of Education Graduate Office (EDS1-2) along with one complete set of official transcripts by the application deadline including steps 1-3 listed below:

1. Transcripts must verify a GPA of 2.05 or higher on the last 60 semester (or 90 quarter) units of coursework taken. Evidence of completing at least a baccalaureate degree majoring in the behavioral sciences, education, or related program prior to beginning the Master of Science in Counseling program (those with other majors should seek advisement from the program faculty);

2. Send three (3) letters of recommendation along with the Program Application;

3. Send a type-written personal statement as instructed in the Program Application;

4. Screening interview(s) (upon notification by the option area);

5. Items 1-3 above must be on file in the Graduate Office by the program application deadline.

6. Applicants are not allowed more than 9 semester unit credits applied to curriculum requirements of the option selected prior to admission into the first semester of the program.

Option in Career Counseling (code ED_PMS01)

(Temporarily suspended for new admissions)

Students in this option prepare to provide career counseling and guidance services to adults and adolescents in the community and public agencies, college and university settings, business and industry settings, and private practice. This training prepares individuals for the California Registered Professional Counselor (CRPC) and National Master Career Counselor (MCC) examinations.

Requirements

All of the following: COUN 510, 513, 515, 530, 531, 637, 638, 643C, 644C; and all requirements of ONE of the following tracks (21 units): Thesis Track – EDP 419, 420, 510, 520, 696, 698; OR Comprehensive Examination Track – EDP 400; and six elective courses from COUN 516, 555, 601, EDP 517, 520, 524A, 596; EDSP 564.

Advancement to Candidacy

COUN 515, 530; EDP 400 or 419; fulfill the Graduation Writing Assessment Requirement (GWAR).

Option in Marriage and Family Therapy (code ED_PMS04)

Students in this option will prepare for licensed independent MFT practice to work in private practice, community-agency settings, government-court settings, hospitals, clinics, Employee Assistance Programs, and city-county-state agencies to provide counseling services for adults, children, families and couples.

Prerequisite

EDP 400 or equivalent.

Requirements

All of the following (62 units): COUN 508A, 508B, 510, 511, 512, 513, 514, 515, 522, 543, 555, 556, 557, 601, 608, 609, 638, 643D, 644D; EDP 520 and EDP 698 or comprehensive examination. Students electing the comprehensive examination must complete an additional 6 units of approved electives from coursework in the counseling program.

Advancement to Candidacy

COUN 508A, 510, 513; EDP 400; fulfill the Graduation Writing Assessment (GWAR).
Option in School Counseling (code ED_PMS02)

The Master of Science in Counseling (School Counseling Option) and the Pupil Personnel Services School Counseling Credential Programs are designed to prepare counselors to work in elementary, middle, and high schools. Both programs support a comprehensive, developmental, and collaborative school counseling model. Based upon the American School Counselor Association's National Standards for K-12 School Counseling Programs and their 2003 National Model, our programs further support a balanced, holistic approach that considers the academic, career development, and personal/social needs of K-12 students. Graduates are expected to become proactive leaders who will advocate for their students and themselves, as counseling professionals working toward equity, achievement, and opportunity for all students.

Students entering the Master of Science in Counseling (School Option) program concurrently fulfill requirements for the Pupil Personnel Services School Counseling Credential and must apply to both programs. The Pupil Personnel Services School Counseling Credential (PPS/SC) is required by the California Commission on Teacher Credentialing (CTC) for persons employed by the public schools as school counselors. (See Credential Programs)

Each year the School Counseling Programs Information and Application Packet is revised. Applicants must use the application developed specifically for the year for which they are applying.

Requirements

All of the following (51-57 units): COUN 506, 507 (or EDP 530 or 531 for students who have advanced to candidacy prior to Fall 2005), 510, 513, 515, 555, 606, 607, 638, 643A, 644A, 646C; EDP 400, 520, 536, 596, 604, and 2 semesters of EDP 698 or comprehensive examination.

Advancement to Candidacy: COUN 506, 513, 515; EDP 400, fulfill the Graduation Writing Assessment Requirement (GWAR).

Option in Student Development in Higher Education (SDHE) (code ED_PMS03)

Students completing this option are employed in residence halls, financial aid, student activities, adult re-entry, admissions, career centers, academic advising, disabled student services, counseling centers, orientation, tri and educational opportunity programs, multicultural affairs, and community outreach in two- and four-year institutions.

Requirements

All of the following (51 – 57 units): COUN 510, 513, 515, 516, 538, 547, 548, 549, 555, 593, 638, 643B, 644B, 693; EDP 400, 520, 576, 596; and EDP 698 or comprehensive examination.

Advancement to Candidacy: COUN 513, 515, 538, 593, EDP 400; fulfill the Graduation Writing Assessment Requirement (GWAR).

Master of Science in Special Education (code ED_PMS06)

Students in this master's degree program work toward attaining leadership positions in public and private schools and agencies in the community that provide services for individuals with disabilities. The program is aimed at developing advanced skills and knowledge of current research in special education, and demonstration of the ability to engage in reflective inquiry. The program culminates with a thesis or comprehensive exam. The program does not result in a credential to teach students with disabilities. Students who want to teach individuals with disabilities should refer to the Education Specialist Credential Program section.

Admission

1. Submit a program application with copies of transcripts from all educational institutions verifying a GPA of 2.85 or higher on the last 60 semester units (or 90 quarter units) of course work taken.
2. Verification of a baccalaureate degree from an accredited institution.
3. A typed essay of three to five pages, double-spaced, outlining the candidate's reasons for entering the program, experiences and training related to the program, and anticipated outcomes from completing the program.
4. An interview with program faculty (conducted at a later date).
5. 2 letters of recommendation from persons able to attest to the student’s professionalism and preparedness for advanced academic studies.
6. Attendance at an on-campus program orientation.

Prerequisites

A bachelor's degree with 24 upper division units to include the following 3 areas of study (suggested courses in education noted in parentheses) and a teaching credential in Special Education or equivalent experience:

1. Development: 3 units (EDP 301 or 302);
2. Statistics and measurement: 3 units (EDP 400);
3. Individual differences: 3 units (EDP 350).

Requirements

Students must complete a minimum of 30 units of upper division and graduate courses with a minimum of 21 units at the 500/600 level taken at this university. Degree requirements include the following courses:

1. Foundation Courses: EDP 520; EDP 546C, 550.
2. Required Specialization Courses: EDP 535, 542, 566.
3. One of the following advanced methods courses: EDP 561 or 565.
4. Of the following pathways in consultation with faculty advisor: Comprehensive exam pathway: EDP 695S (3 units) and written comprehensive exam, Thesis pathway: EDP 698 (6 units).
5. 3-6 units of electives selected with the program faculty advisor.

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Each year the School Counseling Programs Information and Application Packet is revised. Applicants must use the application developed specifically for the year for which they are applying. Students are admitted for Fall only, although admitted students may begin coursework during the preceding summer semester. Program applications must be submitted to the College of Education Graduate Office (EDH-7). Application Deadline for Fall Admission: March 1

CBEST

Admitted students must take the California Basic Educational Skills Test (CBEST) no later than the second available administration date following enrollment in the program.

Requirements

1. Completion of the Master of Science in Counseling (School Counseling Option) or an approved equivalent degree.

2. All of the following (51-57 units): COUN 506, 507 (or EDP 530 or 531 for students who have advanced to candidacy prior to Fall 2005), 510, 513, 515, 555, 586, 607, 638, 643A, 644A, and 695C; EDP 400, 520, 536, 596 and 604.

3. Field Work Prerequisites:
   A. School Counseling Field Work (COUN 643A) (300 hours of approved activities, average of 20 hours per week):
      (1) COUN 607,
      (2) Certificate of Clearance.
   B. Advanced School Counseling Field Work (COUN 644A) (300 hours of approved activities, average of 20 hours per week):
      (1) COUN 507 (or EDP 530 or 531 for students who have advanced to candidacy prior to Fall 2005), 538, 643A; EDP 536 (or concurrent enrollment in 536),
      (2) Pass CBEST.

4. Certification of program completion by the faculty is required. The faculty may require students to complete additional coursework, fieldwork, or demonstrate specific competencies before recommendation to the CTC for the PPS school counseling credential.

School Counseling Internship

For additional information, contact the School Counseling Program Coordinator.

School Psychology Credential

(code 804)

The School Psychology Credential program, accredited by the National Association of School Psychologists (NASP) and the California Commission on Teacher Credentialing (CTC), prepares graduates to consult with teachers, parents, administrators and others regarding the learning and behavior of children in grades PreK-12. School psychologists develop and implement interventions and monitor the progress of students with special needs, assist students in developing productive and successful school careers, and assist teachers in the areas of behavior management and instruction. A teaching credential is not required.
University Admission Application

In addition to filling a program application (see next section), prospective students must file an Application for Graduate Admission along with one complete set of official transcripts with the University Office of Admissions prior to February 13 for fall admission. Online applications are available at www.csun.edu.

Admission

1. Copies of transcripts verifying a GPA of 3.0 or higher in the last 60 semester units (or 90 quarter units) of course work;
2. Possession of a baccalaureate degree from an accredited university;
3. Three letters of reference by persons who have engaged in professional work with the applicant;
4. A written personal statement – the application form includes a list of items to be included;
5. Screened interview – after the admission committee reviews all applications, select applicants will be invited for an interview with program faculty;
6. Possession of a master's degree in a related field or admission into the Master of Arts in Education option in Educational Psychology.

Requirements for the Completion of the School Psychology Credential

1. Students who enter the School Psychology Credential program without an earned master’s degree in one of the behavioral sciences must complete the Master of Arts in Education degree with the Option in Educational Psychology;
2. Completion of the following prerequisites: EDP 405, 301 or 302, and 415; and a minimum of 60 units in graduate coursework or their equivalent (with approval of the School Psychology faculty) in the following areas of study – Educational Psychology: EDP 520, 528, and 605; Counseling: EDP 517 and COUN 601; Assessment and Intervention: EDP 524A, 524B, 525A, 525B, 527, 536, 550, 570; Practicum and fieldwork: EDP 641A, 641B, EDP 642A, and 642B; and 4 advisor-approved elective courses;
3. Students are annually evaluated for specific professional competencies. If students are found insufficient on one or more of the competencies, the student may be required to complete additional course work, practica, fieldwork, and/or other activities before being approved for the PPS intern or full credential;
4. A Certificate of Clearance and successful performance on the CBEST is required prior to enrolling in practica;
5. Fieldwork in School Psychology prerequisites: Master's degree in related field and all program courses except EDP 527, 560, and EDP 642A and 642B;
6. Completion of the National School Psychology Examination (ETS/PRAXIS II #10400) prior to completion of the program.

School Psychology Internship

See Program Coordinator for details.

An internship is field work performed under the supervision and with the permission of the School Psychology faculty and the school district which hires the intern. In order to be recommended to a district as a possible intern, the student must have completed the prerequisites listed above in “1” through “5,” and be approved by the School Psychology credential coordinator.

Special Education Credentials

The Education Specialist Credential Program prepares and certifies special education teaching candidates in the CTC Education Specialist Credential categories of Mild/Moderate and Moderate/Severe. An Intern Option is also available in collaboration with certain school districts. Please consult with the Teacher Preparation Advising Center for further information.

Preliminary Level I – Education Specialist Credential and Intern Option: Mild/Moderate Disabilities (code 468) and Moderate/Severe Disabilities (code 469)

Professional Level II – Education Specialist Credential: Mild/Moderate Disabilities (code 468) and Moderate/Severe Disabilities (code 469)

This Specialist credential program prepares candidates in the areas of Mild/Moderate and Moderate/Severe disabilities in a program approved by the California Commission on Teacher Credentialing. The program is designed so that candidates may be certified in both areas of authorization if they complete two separate field experiences, i.e., one with students with mild and moderate disabilities and one with students with moderate and severe disabilities. Upon admission to the program, candidates must identify an area of authorization and indicate whether their goal is to become certified in one or both areas. The program has two tiers: the Preliminary Level I Education Specialist Credential and the Professional Level II Education Specialist Credential. Following receipt of the Preliminary Level I Credential, candidates need to complete the Professional Level II preparation in special education within five years of the date of issuance of the preliminary credential. An Intern Option is also available in partnership with selected school districts. Please consult the College of Education Teacher Preparation Advising Center for further information. An Education Specialist Credential can also be earned in conjunction with the Integrated Teacher Education Program (ITEP). Please refer to the Liberal Studies Department for information on this.

Preliminary Level I – Education Specialist Credential Program (ESCP): Mild/Moderate and Moderate/Severe

Admission to the Program

Application for admission to the Education Specialist Credential Program (ESCP) should be made the semester before beginning the required Level I courses. Students may apply to the program while taking prerequisite courses, and may be admitted on a conditional basis pending their completion. Applications are available in the Teacher Preparation Advising Center (ED1-67) or online at www.ced.csulb.edu/special-education. Applications should be submitted to the Teacher Preparation Advising Center.
Program Admission Requirements

1. Apply and be admitted to the University as a post baccalaureate (credential) student.
2. Attain a grade point average of at least 2.67 in all baccalaureate and post baccalaureate course work or at grade point average of at least 2.75 in the last 60 semester units or 90 quarter units attempted.
3. Complete and submit the Education Specialist Credential Program application by the posted application deadline. Specify area of authorization (Mild/Moderate, Moderate/Severe, or both).
4. Complete and provide documentation of a field experience of at least 45 hours in a K-12 general education classroom setting.
5. Submit two letters of recommendation from individuals who are well acquainted with your educational training, teaching, and other related experiences.
6. Submit a typed personal essay describing how your interest in special education began, the experiences, training and talents that you bring to the area of special education; your short-term and long-term career goals; and how the program's goals fit your personal goals.
7. Submit a negative tuberculosis skin test or chest X-ray taken within the last three years. TB clearance must be valid through advanced field study (student teaching).
8. Submit one photocopy of all university and/or college transcripts.
9. Submit proof of having taken the California Basic Educational Skills Test (CBEST). You must have attempted all three parts of the CBEST. Passage of the CBEST is required before you begin your advanced field study (student teaching).
10. Complete and pass an oral interview with program faculty.
11. Demonstrate proficiency in reading and writing English by (1) attaining a minimum passing score of 37 on each of the reading and writing portions of the CBEST exam; and/or (2) through demonstration of appropriate writing skills on your personal essay and oral communication skills in the oral interview with program faculty.
12. Demonstrate personality and character traits that satisfy the standards of the teaching profession and suitable aptitude for teaching students with special needs in public schools through the application documentation and oral interview with program faculty. Candidates must continue to demonstrate appropriate personality and character traits through completion of the program.
13. Submit an application for a Certificate of Clearance to the California Commission on Teacher Credentialing (CTC), or provide evidence of recent fingerprint clearance. Submit a copy of the Certificate as demonstration of clearance, or a copy of a certified mail receipt as demonstration of submitting an application.
14. Submit proof of having demonstrated subject matter competence by passing all three sub-tests of the California Subject Exam for Teachers: Multiple Subjects (CSET: Multiple Subjects) or the appropriate single subject CSET exam in Math, Science, or Language Arts to meet the highly qualified teacher mandate. See the Level I advisor for more information.

Applicants will be informed in writing of the decision of the program faculty regarding acceptance into the program shortly after the interview. Upon acceptance, the candidate is required to meet with an assigned program faculty for advisement and may begin taking Level I coursework in the advised sequence.

Preliminary Level I - Education Specialist Intern Program (ESIP): Mild/Moderate and Moderate/Severe

Admission to the Program

Interns are teachers of record employed by a local school district who earn their credential concurrent with their classroom teaching responsibilities. Application for admission to the Education Specialist Intern Program (ESIP) should be made the semester before beginning the required Level I courses. Application packets are available on the program website (www.ced.csulb.edu/special-education). Completed ESIP applications should be submitted to the Credential Center. Students may apply to the program while taking prerequisite courses. To be considered for admission to the ESIP, candidates must provide verification of the following:
1. Employment by a collaborating school district in a qualifying special education classroom or setting.
2. Proof of passage of the California Basic Educational Skills Test (CBEST).
3. One copy of official sealed transcripts from all universities/ colleges attended indicating a grade point average of at least 2.67 in all baccalaureate and post-baccalaureate course work or a grade point average of at least 2.75 in the last 60 semester units or 90 quarter units attempted.
4. Meet the U.S. Constitution requirement (through POSC 100 or 391 or equivalent course at another institution or exam).
5. Proof of character clearance (fingerprint background check).

Program Admission Requirements

In addition to the requirements listed above, ESIP candidates will:
1. Apply and be admitted to the University as a post baccalaureate (credential) student.
2. Complete and submit to the Credential Center the Education Specialist Intern Program application by the posted application deadline. Specify area of authorization (Mild/Moderate, Moderate/Severe, or both).
3. Provide documentation of a field experience of at least 45 hours in a K-12 general education classroom setting.
4. Submit a typed personal essay describing how your interest in special education began; the experiences, training and talents that you bring to the area of special education; your short-term and long-term career goals; and how the program's goals fit your personal goals.
5. Complete and submit CTC application 41-4.
6. Submit a money order for $55 payable to the California Commission on Teacher Credentialing.
7. Complete and pass an oral interview with program faculty.
8. Demonstrate proficiency in reading and writing English by (1) attaining a minimum passing score of 37 on each of the reading and writing portions of the CBEST exam; and/or (2) through demonstration of appropriate writing skills on your personal essay and oral communication skills in the oral interview with program faculty.

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9. Demonstrate personality and character traits that satisfy the standards of the teaching profession and suitable aptitude for teaching students with special needs in public schools through the application documentation and oral interview with program faculty. Candidates must continue to demonstrate appropriate personality and character traits through completion of the program.

10. Demonstrate proficiency in reading and writing English by (1) attaining a minimum passing score of 37 on each of the reading and writing portions of the CBEST exam and/or (2) through demonstration of appropriate writing skills on your personal essay and oral communication skills in the oral interview with program faculty.

Applicants will be informed in writing of the decision of the program faculty regarding acceptance into the program shortly after the interview. Upon acceptance, the candidate is required to meet with an assigned program faculty for advisement and may begin taking Level I coursework in the advised sequence.

Course Requirements in the ESCP and ESIP Programs

To be considered for full acceptance in the ESCP and ESIP programs, students must have completed all prerequisite courses: EDP 301 (or HDEV 307) or PSY 361 or EDP 302, EDP 350, 454, and ETEC 444.

Fully admitted candidates must complete the core courses: EDP 405, EDP 406, 564, 567, 569, EDEL 452 and 462.

Students in the ESIP program must identify and work closely with a site-based support team, comprised of their site support coach, principal, and other school and district support personnel throughout their Level I credential program.

Advanced Field Study (Student Teaching) Requirements in the ESCP and ESIP Programs

The final phase of the ESCP and ESIP programs is advanced field study (student teaching). Candidates are required to student teach for 5 days a week for the length of the semester(s) that they are enrolled in advanced field study. ESCP candidates student teach as a traditional student teacher with a master teacher. ESIP candidates use their own K-12 MM or MS special education classroom setting in which they are the teacher of record as their student teaching placement.

A separate application is required to advance to student teaching. Applications for student teaching must be submitted by the posted deadlines during the semester prior to which the candidate wishes to student teach. Application packets are distributed at program Field Study Information meetings, which are announced in program courses and posted on the program website. Upon notification of acceptance in student teaching, candidates register for Advanced Field Study: EDP 567 A & B or EDP 588 A & B.

To be eligible for advanced field study (student teaching), candidates must:
1. Pass CBEST.
2. Complete all program prerequisite and core courses. A student must have a 3.0 grade point average, with no grade below "C", in the core courses to advance to student teaching. A grade of "D" or "F" in any of the core courses will result in the student being dropped from the program.

The overall grade point average must continue to meet the program admission standard.

3. Have on file a negative tuberculosis skin test or chest X-ray valid through completion of student teaching.
4. Meet the U.S. Constitution requirement (through POSC 100 or 361 or equivalent course at another institution or exam).
5. Submit proof of character clearance (fingerprint background check).
6. Submit a student teaching application by the appropriate deadline.
7. To be eligible for the Preliminary Level I Education Specialist Credential, candidates must successfully meet all program requirements, including passing student teaching, and pass the Reading Instruction Competency Assessment (RICA). Candidates may take the RICA at any time prior to applying for the credential. RICA information booklets are available in the Teacher Preparation Advising Center (EDT-1-67).

Professional Level II – Education Specialist Credential: Mild/Moderate and Moderate/Severe

Professional Level II Education Specialist Credential preparation is intended to enable new Education Specialist teachers to apply their Level I preparation to the demands of their professional positions while also developing as reflective practitioners in advanced skill areas and knowledge. The Level II program incorporates several courses in the Master of Science in Special Education program and students are encouraged to apply to the M.S. in Special Education program.

Application and Admission

Candidates are encouraged to apply for admission to the Professional Level II Education Specialist Credential program in the semester immediately prior to their anticipated completion of Level I. The CTC requires that candidates complete Level II within five years of the completion of Level I. Candidates must be employed for at least 2 years under a Level I credential to be granted a Level II credential. Upon completion of the Level I credential, candidates have 120 days of employment to select a support provider and develop a Level II Individualized Induction Plan. To be considered for admission, candidates must provide verification of the following:

Prerequisites and Conditions and Requirements

1. Admission to the University.
2. Overall GPA of 2.86 in college and university course work (last 60 units).
3. Completion of Preliminary Level I Credential or Certificate of Eligibility.
4. HSC 411 A or B (Health Science requirement).
5. CPR certification.
6. Two letters of recommendation (from employer and a university faculty member at previous institution).
7. Interview with program faculty.
8. Attendance at an on-campus program orientation.

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Professional Level II Education Specialist 
Credential Requirements 
1. Complete EDSP 546C Practicum in Special Education and complete an Individualized Induction Plan. Select area of emphasis (mild/moderate or moderate/severe); identify specialization and action research focus; and identify non-university activities if applicable. 
2. Complete the following core courses: EDSP 550 and 535. 
3. Complete one specialization course: EDSP 542 or 566. 
4. Complete one advanced methods course: EDSP 563 or 565. 
5. Participate in an Exit interview with University Faculty Mentor and District Support Provider. 

Administrative Services Credential 
Preliminary (code 501) 
Certification of school administrators is established through a two-tiered credentialing process. Upon completion of all Preliminary Administrative Services Credential Program coursework and requirements (Tier 1), candidates apply to the California Commission for Teacher Credentialing (CTC) for a Preliminary Administrative Services Certificate of Eligibility. The certificate has no expiration date and authorizes the holder to seek an administrative position. The certificate informs the future employing school district/agency of eligibility to serve. Once the candidate accepts employment as an administrator, the candidate applies to the California Commission for Teacher Credentialing for the Preliminary Administrative Services Credential authorizing the candidate to serve as an administrator in the state of California. Once issued, the Preliminary Credential is valid for five (5) years and it is not renewable. The Preliminary Administrative Services Credential (Tier 2) cannot be pursued until the candidate is employed in a position requiring an administrative credential. Once issued, it is valid for five years and is renewable subject to fulfillment of professional development requirements (see complete description of the Professional Administrative Services Credential program below). 

Clear Admissions Requirements 
Preference will be given to individuals with 3 or more years of classroom teaching and/or related educational experiences. 
1. Complete the “Conditional Admission to the Program” requirements (Nos 1-4) for the MA in Education, Option in Educational Administration; 
2. Possess one of the following: a valid teaching, pupil personnel, library/media teacher, health services, vocational education instructor, or clinical rehabilitative services credential. 

Requirements 
Prerequisite: Enrollment in courses is contingent upon acceptance in the Educational Administration program and the University. Candidates who have not been accepted in the program may not enroll in Educational Administration courses. 
1. EDAD 541, 544, 647A, 647B, 649, 677A, 677B; 
2. EDAD 690 (Field Experience); 
3. The CBEST must be passed prior to entrance into EDAD 680. The CBEST must be taken no later than the second available test administration date following enrollment in the program. 

Exit Requirements 
1. Verification of three years of successful experience in a position requiring one of the credentials in Item #2 of the “Clear Admission Requirements” (see above); 
2. Verification of completion of the State requirement of a mainstreaming course or approved equivalent coursework; 
3. Presentation of a professional Exit Portfolio to program faculty with program artifacts of course and field related experiences documenting the candidate’s competence and readiness to serve as a school administrator. 

Professional (code 502) 
The Professional Administrative Services Credential (Tier II) authorizes the candidate to serve in any position requiring the Administrative Services Credential. The Professional Credential cannot be pursued until the candidate is employed in a position requiring an administrative credential. The program requirements must be completed within the five year authorization of the Preliminary Administrative Services Credential. Once issued, the Professional Credential is valid for five years and is renewable subject to fulfillment of professional development requirements. 

Prerequisites 
1. Possession of a valid Preliminary Administrative Services Credential; 
2. Written verification of employment in an administrative position by an educational agency. 

Admission 
1. Program application and evidence that prerequisites have been met; 
2. Current resume; 
3. Personal narrative describing philosophy of leadership and academic and professional goals while in the program; 
4. Copy of valid Preliminary Administrative Services Credential; 
5. Written evidence of mentor’s commitment to work with the candidate for the duration of the program; 
6. Personal contact (phone, email, in person) with program coordinator prior to program application. 

Requirements 
The Professional Administrative Services Credential Program has a unique format intended to meet the needs of the busy, practicing administrator. Candidates complete the program in 10 semester units. The program is designed to provide the candidate with professional support through an introductory two (2) unit course (EDAD 640) in which the Mentoring and Professional Induction Plan is developed. The plan is developed collaboratively among the candidate, the school district mentor, and the University supervisor. The academic core program consists of two courses, EDAD 658 and 659, which must be completed with a grade of “B” or better. The final requirement is a two (2) unit candidate assessment (EDAD 692) in which the candidate participates in a Portfolio Exhibition. 

Outline of Specific Requirements 
1. Development of the candidate’s Professional Induction Plan during EDAD 640; 

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2. Completion of the following courses: EDAD 640, 658, 659, 692;
3. Presentation of Administrative Portfolio during EDAD 692.

Exit Requirements

1. Provide verification of two years of successful full time experience in a position requiring the Administrative Services Credential;
2. Present to program faculty, school district mentor, and a panel of other candidates a professional portfolio containing artifacts that demonstrate competency in each of the six administrative services credential standards and satisfactory progress toward attaining goals identified in the candidate’s Professional Induction Plan developed in EDAD 640.

Teacher Librarian Services Credential (code 700)

The 29-unit program in Library Media prepares students for service as a teacher librarian, grades K-12, in the State of California. For additional information go to www.csulb.edu/ltm.

Admission

1. Submit a University Application, April 15 for Fall or October 1 for Spring (a maximum of six units may be completed through Open University/Extension Services);
2. Completion of a bachelor’s degree;
3. Possession of a valid California teaching credential;
4. Passage of CBEST;
5. Overall 3.0 GPA in the last 60 semester or 90 quarter units of course work or 3.0 GPA in the completion of first 15 units of basic teaching credential course work;
6. Three letters of recommendation;
7. A one-page personal statement and resume;
8. Screening interview.

Submit all materials (2-7) to the College of Education Graduate Office.

Requirements

1. Core Course (3 units): EDCL 625, or equivalent;
2. Specialization Courses (21 units): ELIB 510, 520, 530A, 530B, 540, 550, 570;
3. Field Experience (4 units): ELIB 580.

A working knowledge of word processing, databases, spreadsheets, desktop publishing, presentation software, Internet searching and e-mail usage is expected.

Graduate Certificate Community College (code COEDCT02)

The community college graduate certificate is designed to prepare graduate students to work in community college settings as teaching faculty or counselors. Courses offered in this program provide students with an overview of the community college and its role in the American higher education system. Students will gain insights and experiences in the classroom and in fieldwork that will strengthen their knowledge and skills in working with community college students, faculty, and staff. The certificate program consists of 18 units; 9 units are from the master’s degree program and must be approved by the student’s master’s degree program graduate advisor; and 9 units are specific to the study of college students, the community college, and fieldwork. All students will be required to:

1. Submit a Graduate Certificate in Community College application to the Office of Graduate Studies by April 1 for fall consideration or October 15 for spring consideration
2. Be enrolled in a master’s degree program or have an earned master’s degree in a discipline leading to teaching or counseling in post-secondary education settings.
3. Complete 9 units of coursework in Educational Psychology: Introduction to the Community College (COUN 552), Students in U.S. Higher Education (COUN 548), and a fieldwork class that is counseling or teaching focused (COUN 644B).
4. Complete an additional 9 units approved by their master’s degree program graduate advisor for consideration to fulfill the 18 units required for the certificate. These courses may include pedagogy, learning theory, instructional management, and/or teaching methodology courses in the student’s major area of study, or any other courses in the discipline deemed appropriate by the master’s degree program graduate advisor.

Graduate Certificate for Career Guidance Specialist (code COEDCT01)

This option is under consideration for suspension or discontinuance and selected courses will not be offered in the 2008-09 academic year.

Admission

1. Fill an Application for Graduate Admission, along with two complete sets of official transcripts, with the University Office of Admissions no later than March 1 for fall semester or October 1 for spring semester;
2. Transcripts must verify a GPA of 2.85 or higher on the last 60 semester (or 90 quarter) units of course work taken;
3. Evidence of completing at least a baccalaureate degree prior to beginning the Graduate Certificate program;
4. Two letters of recommendation (send only after notification by the program);
5. A type-written personal statement (send only after notification by the program);
6. Screening interview(s) (upon notification by the program);
7. Items 1-5 above must be on file in the department no later than November 1 for the following spring semester, or April 1 for the following fall semester;
8. Applicants are allowed only two semester units credit applied to curriculum requirements completed prior to admission into the first semester of the program.

Requirements

1. 19 core course units: COUN 530, 531, 637, and 643C;
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
3. Approved electives in the Departments of Advanced Studies in Education and Counseling, Human Resources Management; Occupational Studies; Psychology or Sociology as needed to fulfill 19 units upon waiver of any core course units granted upon admission to certificate program.
Counseling
COUN 191 Career and Personal Explorations
COUN 300 The Fundamentals of Peer Advising and Counseling
COUN 360 Life and Career Decisions
COUN 504 Family Systems Approach to School Discipline Problems
COUN 506 Counseling in School Settings
COUN 510 Laws and Ethics for Counselors
COUN 511 Counseling the Alcohol and Chemical Dependence Person
COUN 512 Child and Spousal Partner Abuse
COUN 513 Introduction to Clinical Interviewing
COUN 514 Medications and Counseling
COUN 515 Counseling Theory
COUN 516 Counseling the Adult
COUN 522 Counseling Methods and Techniques
COUN 530 Career Development and Decision Theory
COUN 531 Career Information Resources
COUN 538 Student Development in Higher Education
COUN 543 Human Sexuality Counseling
COUN 547 Student Development Theory
COUN 548 Students in U.S. Higher Education
COUN 549 Management of Student Development in Higher Education
COUN 552 Introduction to the Community College
COUN 555 Cross-Cultural Counseling
COUN 556 Counseling Children and Adolescents
COUN 557 Counseling Couples
COUN 593 Seminar in Professional Development in Counseling and Human Services
COUN 601 Trauma and Grief Counseling
COUN 609 Current Issues in Professional School Counseling
COUN 607 School Counseling Practicum
COUN 608 Seminar and Practicum in Marriage and Family Therapy
COUN 609 MFT Practicum
COUN 632 Career Counseling Practicum
COUN 633 Group Counseling
COUN 634 Seminar in Organization of Pupil Personnel Services
COUN 643 A Advanced Counseling Field Work
COUN 643 D Advanced Counseling Field Work
COUN 690 Seminar in School Counseling Supervision: Theory and Practice
COUN 692 Special Topics in Counseling
COUN 693 Advanced Seminar in Professional Development and Counseling
COUN 695C Seminar in Professional Development in Counseling and Human Services

Educational Administration
EDAD 541 Leadership, Organizational Management, and Ethics
EDAD 544 Legal Aspects of Education: Implications and Applications for School Leadership
EDAD 560 Introduction to Field Experience in Administration
EDAD 567A, B, C Directed Study
EDAD 640 Mentoring and Professional Development Planning for the New Administrator
EDAD 641A Fiscal Resources in Educational Administration
EDAD 641B Human Resources in Educational Administration
EDAD 648 Schools as Organizations: Development, Management, and Assessment
EDAD 649 Urban Schools and Communities: Academic, Social, Political, and Cultural Issues
EDAD 658 Organizational Development, Culture, and Change
EDAD 659 Educational Governance, Politics and Policy
EDAD 677A Curriculum/Program Development and Evaluation
EDAD 677B Instructional Leadership and Assessment
EDAD 680 Field Experience in Administration
EDAD 692 Administrator Portfolio Development and Exhibition
EDAD 695 Minton's Research Study in Educational Administration
EDAD 697 Directed Research
EDAD 698 Thesis

Educational Psychology
COUN 430 Orientation to Counseling
EDP 301 Child Development and Learning: A Cross-Cultural Perspective
EDP 302 Early and Late Adolescent Development and Learning: A Cross-Cultural Perspective
EDP 305 Educational Psychology
EDP 373 Nonverbal Communication: Interaction of Mind and Body
EDP 400 Fundamentals of Educational Statistics, Measurement and Evaluation
EDP 405 Positive Strategies for Classroom Management
EDP 419 Educational Statistics
EDP 420 Tests, Measurement and Evaluations
EDP 490 Special Topics in Educational Psychology
EDP 492 Internships in the Human Services
EDP 517 Seminar in School Counseling
EDP 519 Quantitative Educational Data Analysis I
EDP 520 Research Methods in Education
EDP 524A Psychoeducational Assessment
EDP 525A Psychoeducational Diagnosis in Multicultural Settings
EDP 527 Clinical Practice in School Psychology
EDP 528 Orientation to Professional School Psychology
EDP 535 Collaborative Partnerships and Effective Communication in School Settings
EDP 539 Collaborative Consultation in the Schools
EDP 541 Seminar in Educational Measurement and Assessment
EDP 560 Behavior Analysis: Positive Behavioral Interventions
EDP 595A Curriculum-Based Academic Assessments & Interventions
EDP 595 Qualitative Research Methods
EDP 596 Program Evaluation in Education
EDP 604 Seminar in Human Development
EDP 605 Seminar in Consultation on School Learning
EDP 619 Quantitative Educational Data Analysis II
EDP 641 Practicum in School Psychology
EDP 642A-B Field Work: School Psychology
EDSP 350 Education of Exceptional Individuals
Foundations of Education
EDP 432 Social and Cultural Diversity in Educational Settings
EDP 465 Theoretical Foundations of Language Minority Education
EDP 492 Internships in the Human Services
EDP 573 Intercultural Communication in Education
EDP 574 Sociological Foundations of Education
EDP 575 Intellectual Foundations of Educational Reform, 19th Century to Present
EDP 576 Education and Diversity: Historical and Contemporary Perspectives
EDP 582 Comparative International Education
EDP 583 Global Education
EDP 622 Language and Educational Policies

Educational Library
ELIB 547 Independent Study
ELIB 550 Foundations of Information
ELIB 551 Selection of Materials and Information Sources
ELIB 552 Information Literacy and Reference Services
ELIB 530A Library Media Materials for Elementary Grades
ELIB 530B Library Media Materials for Secondary Grades
ELIB 540 Organization of Information
ELIB 550 Management of Information Organizations
ELIB 570 Library Media Technologies
ELIB 580 Field Experience in Librarians

Research
EDP 400 Introduction to Educational Measurement and Statistics
EDP 419 Educational Statistics
EDP 420 Tests, Measurements and Evaluations
EDP 519 Quantitative Educational Data Analysis I
EDP 520 Research Methods in Education
EDP 541 Seminar in Educational Measurement and Assessment
EDP 555 Qualitative Research Methods
EDP 569 Quantitative Educational Data Analysis II
EDDA 695 Masters Project
EDP 696 Thesis Study: Plan, Development and Organizing Aspects
EDDA 697 Directed Research
EDP 697 Directed Research
EDDA 698 Thesis
EDP 698 Thesis
EDP 699 Project

Educational Technology
EDSP 542 Assistive Technology and Augmentative Communication
ETEC 110 Introduction to Computers as Tools
ETEC 435 Accessible Electronic and Information Technologies
ETEC 449 Computer Technology in Education, Level I
ETEC 449 Technology Applications for Educators
ETEC 510 Foundations of Educational Technology
ETEC 525 Computer Technology in Education, Level II
ETEC 525 Social and Cultural Implications of Educational Technology
ETEC 530 Educational Technology Leadership
ETEC 535 Accessible Electronic and Information Technologies
ETEC 551 Education and the Internet
ETEC 553 Instructional Design
ETEC 570 E-Learning Design and Development
ETEC 580 Field Experiences in Educational Technology
ETEC 622 Developing Technology-Based Learning
ELIB 570 Library Media Technologies

Joint Doctoral
EDP 703 Policy Issues in Community Colleges
EDP 704 Exploration of Campus Cultures: Impact and Influence
EDP 705 Finance in Education
EDP 707 Student Learning and Development Theory in Higher Education
EDP 708 Leadership in Education
EDP 709 Collaborative Reforms: Designing and Implementing Responsive Curricula
EDP 711 Field Research Study in Education I
EDP 750 Special Topics in Higher Education
EDP 797 Directed Individual Study
EDP 798 Doctoral Dissertation

Education Specialist (Special Education)
EDP 405 Positive Strategies for Classroom Management
EDSP 303 Preparing to Teach Special Populations in the General Education Classroom
EDSP 350 Education of Exceptional Individuals
EDSP 355 Collaborative Models of Inclusion Education: Partnerships and Strategies for Teaching All Students
EDSP 454 Development of Communication Skills in Bilingual Classrooms
EDSP 455 Foundations of Inclusive Education in a Diverse Society
EDSP 535 Collaborative Partnerships and Effective Communication in School Settings
EDSP 542 Assistive Technology and Augmentative Communication
EDSP 546A-F Practicum in Special Education
EDSP 550 Emerging Perspectives in Special Education
EDSP 558 Curriculum and Instruction for Students with Disabilities
EDSP 563 Advanced Methods of Teaching Individuals with Significant Disabilities
EDSP 564 Assessment and Evaluation of Students with Disabilities
EDSP 565 Advanced Methods Mild/Moderate
EDSP 566 Career Planning and Transition for Youth and Adults with Disabilities
EDSP 567 Curriculum and Instruction: Literacy
EDSP 569 Curriculum and Instruction: Math
EDP 571 Advanced Approaches for Special Populations
EDSP 587 A/B Advanced Field Study Mild/Moderate
EDSP 588 A/B Advanced Field Study Moderate/Severe
EDSP 606 Seminar in Special Education
COUN 191. Career and Personal Explorations (3)
Prerequisite or Corequisite: Any foundation (G.E. Category A1, A2, A3, or B2) class.
Described for but not limited to entering and undecided students. Exploration of issues, tasks related to personal, educational, and career planning. Involves personal characteristics and individual differences, personal values and interests, decision making, goal setting, and job/career search preparation.
Not open for credit to students with credit in EDP 191 or EDP 360/ COUN 360.

COUN 507. Career and Academic Counseling in K-12 Settings (3)
Prerequisite: COUN 506.
Focus on career development theory and practice, the world of work, post-school planning, and academic counseling in K-12 settings. Application of theory through culturally sensitive interventions.
Letter grade only (A–F).

COUN 508A. Family Systems Therapy Applied to Lifespan Development (3)
Family systems assessment and counseling applied to lifespan development theories.
Not open for credit to students with credit in EDP 508A. Letter grade only (A–F).

COUN 508B. Family Systems Methods (3)
Prerequisite: COUN 508A or consent of instructor.
The application and practice of family systems therapeutic methods.
Not open for credit to students with credit in EDP 508B. Letter grade only (A–F).

COUN 510. Law and Ethics for Counselors (3)
An introduction to professional identity as counselors and examination of laws and ethics related to the counseling profession and its specialties (MFT, career/vocational rehabilitation, student development, and school counseling).
Not open for credit to students with credit in EDP 510. Letter grade only (A–F).

COUN 511. Counseling the Alcohol/Chemically Dependent Person (2)
Survey of the theories, etiologies, and focus on treatment approaches for counseling and preventing alcohol and chemical dependency, and the role of family and community resources, referrals, and prevention programs.
Not open for credit to students with credit in EDP 511. Letter grade only (A–F).

COUN 512. Child and Spousal/Partner Abuse (1)
Child and spousal/partner abuse assessment indicators, laws, community resources, mandatory reporting requirements for child abuse and spousal/partner violence, assessment, detection, and interventions for the child, family, spousal/partner, and the perpetrator.
Not open for credit to students with credit in EDP 512. Letter grade only (A–F).

COUN 513. Introduction to Clinical Interviewing (3)
A foundation course that provides training in core interviewing skills including active listening, case exploration, goal setting, conducting a mental status exam, and assessing for self-harm.
Not open for credit to students with credit in EDP 513. Letter grade only (A–F).

COUN 514. Medication and Counseling (2)
Prerequisites: COUN 513 or consent of instructor.
An examination of the categories of psychotropic medications: antidepressants including antipsychotics, anxiolytics, and mood stabilizers. Major side effects of these medications and a brief overview of their medical management are reviewed. Herbal alternatives to pharmacologic agents will be explored. Identification of information resources for counselors and clients.
Not open for credit to students with credit in EDP 514. Letter grade only (A–F).

COUN 515. Counseling Theories (3)
Prerequisite: COUN 513.
Major counseling theories examined and the competencies of each developed for use in helping relationships.
Not open for credit to students with credit in EDP 515. Letter grade only (A–F).
Counseling Courses (COUN)

516. Counseling the Adult (3)
Prerequisite: COUN 515.
Theory and practice of counseling and guidance of the adult.
Not open for credit to students with credit in EDP 516. Letter grade only (A-F).

522. Counseling Methods and Techniques (3)
Prerequisites/Corequisites: COUN 513, 515.
An applied course which provides practice in the methods and techniques of the major theoretical approaches employed in counseling.
Not open for credit to students with credit in EDP 522. Letter grade only (A-F).

530. Career Development and Decision Theory (3)
Emphasis on the planning concepts as related to the world of work, theory of career development and the career decision process.
Not open for credit to students with credit in EDP 530. Letter grade only (A-F).

531. Career Information Resources (3)
Knowledge, use and management of information resources in the career development field.
Not open for credit to students with credit in EDP 531. Letter grade only (A-F).

538. Student Development in Higher Education (3)
Survey of student development in public and private colleges and universities, focusing on historical, philosophical and theoretical foundations; roles and functions; legal, ethical, and organizational issues.
Not open for credit to students with credit in EDP 538. Letter grade only (A-F).

539. Seminar in Student Athlete Development (3)
Prerequisite: Graduate standing. Examination of student athlete administration and advising in higher education: history, principles, techniques, and professional standards for student athlete programs and services. Letter grade only (A-F). Same course as KIN 539. Not open for credit to students with credit in KIN 539.

540. The Fundamentals of Peer Advising and Counseling (3)
Introduction to theories of student development, multiculturalism, and counseling. Basic skill development and knowledge of policies and procedures to provide effective academic peer advising. Includes a twenty-hour service-learning component that places students in advising internships on campus. Letter grade only (A-F).

543. Human Sexuality Counseling (3)
Prerequisite: COUN 515.
Training in human sexuality education, counseling, and therapy. An examination of personal attitudes and values. The study of the physiological, psychological, and sociocultural variables associated with sexual behavior, sexual identity, and sexual disorders. For MFCC certification only. Not open for credit to students with credit in EDP 543. Letter grade only (A-F).

547. Student Development Theory in Higher Education: Theory to Practice (3)
Prerequisite: COUN 538.
Examine student development theory and the application of theory to practice for programs and services in student affairs/ higher education, examining cognitive, psychosocial, and person/ environment theories and their application to traditional and non-traditional student populations.
Not open for credit to students with credit in EDP 547. Letter grade only (A-F).

548. Students in U.S. Higher Education (3)
Prerequisite: COUN 538.
Focus on concepts of community and culture in United States college with an emphasis on understanding the diversity of student population to include age, gender, ethnic culture, sexual orientation, and people with disabilities.
Not open for credit to students with credit in EDP 548. Letter grade only (A-F).

549. Management of Student Development in Higher Education (3)
Analysis of management and organizational theory and practice as it pertains to student development in higher education. Includes study of human and physical resources management.
Not open for credit to students with credit in EDP 549. Letter grade only (A-F).

552. Introduction to the Community College (3)
Prerequisite: Enrollment in M.A., M.S. or Credential Programs.
Introduction, orientation, and survey of California and American community college. Components and modules include teaching and learning, leadership and governance issues, organization and administration, student development, classroom research, institutional resources, and student diversity and equity in the community college.
Not open for credit to students with credit in EDP 552. Letter grade only (A-F).

555. Cross-Cultural Counseling (3)
Prerequisites: COUN 510, 513, 515; COUN 506 for School Counseling Option, COUN 538 for SDHE Option, or their equivalent upon approval of the instructor.
Study of U.S. and international cultural factors, perspectives and personal and societal values that affect the counseling relationship, methods, and outcomes. These factors include historical, geographical, socio-psychological, educational and counseling factors from various cultural groups that students will encounter in their professional settings.
Not open for credit to students with credit in EDP 555. Letter grade only (A-F).

556. Counseling Children and Adolescents (3)
Prerequisites: COUN 515 and 522, or consent of instructor.
Theories and application of the methods and techniques of the major theoretical approaches employed in counseling children and adolescents.
Not open for credit to students with credit in EDP 556.

557. Counseling Couples (3)
Prerequisites: COUN 515.
Couple development theories, issues, and practices pertaining to counseling couples.
Not open for credit to students with credit in EDP 557. Letter grade only (A-F).

559. Play and Art Therapy for Children/Adolescents (3)
Prerequisites: COUN 508A and 556 or consent of instructor.
Experiential survey and the practice of play and art techniques employed in therapy as applied to theoretical orientations and problematic behavior.
Not open for credit to students with credit in EDP 559. Letter grade only (A-F).
593. Seminar in Professional Development in Counseling and Human Services (1)
Prerequisite: COUN 538 and 548 (must have completed or concurrently enrolled)
Experiential orientation to profession of counseling and student development/student affairs in higher education with an emphasis on opportunities to observe interactions between organizational and student cultures, and the functions and role of student affairs professionals in the work environment through fifty-hour practicum.
Not open for credit to students with credit in EDP 593. Letter grade only (A-F).

601. Trauma and Grief Counseling (3)
Prerequisite: COUN 555 or consent of instructor. Required course for students in the Marriage and Family Therapy Program and a recommended course for graduate students in the other Counseling Programs.
Overview of developmentally informed models of trauma response, training in identifying and assessing problematic responses to trauma and loss, and guidelines for working with traumatized children, adolescents and families in various settings. Current treatment approaches for treatment of acute and chronic forms of post-traumatic distress and traumatic bereavement will be covered. Will not cover treatment of childhood sexual or physical abuse.
Not open for credit to students with credit in EDP 501. Letter grade only (A-F).

606. Current Issues in Professional School Counseling (3)
Prerequisite: COUN 506.
A variety of current issues in school counseling presented in learning modules. Topics include assessment, education of students with disabilities, school violence prevention, crisis counseling, comprehensive counseling plans, and classroom management.
Letter grading only (A-F).

607. School Counseling Practicum (3)
Prerequisites: COUN 505, 515.
Practical application of counseling theory to work with children and adolescents. Supervised counseling, consultation, and case management experiences conducted in the educational psychology/counseling clinic and in school settings.
Not open for credit to students with credit in EDP 507. Letter grade only (A-F).

608. Seminar in Marriage and Family Therapy (3)
Theories, research, treatment planning, and therapeutic methods of MFT counseling utilizing major psychotherapeutic approaches regarding assessment, diagnosis, and treatment of various mental health problems.
Not open for credit to students with credit in EDP 608. Letter grade only (A-F).

609. MFT Practicum (3)
Prerequisites: COUN 510, 511, 512, 513, 515, 522, and 608.
Practicum application submitted no later than March 1 for the following fall semester, and October 1 for the spring semester. MFT counseling in the Educational Psychology Clinic and an appropriate non-profit setting with closely supervised experiences prior to MFT fieldwork. Students will be required to assess, diagnose, describe appropriate interventions, and conduct counseling services for individuals and/or families. A total of 150 hours is required.
Not open for credit to students with credit in EDP 609. Credit/No Credit grading only.

637. Career Counseling Practicum (4)
Prerequisites: COUN 510, 515, 530 or 531 and EDP 524A or EDP 564.
Career counseling at the secondary and post secondary levels with closely supervised clinical experiences. Students will be required to assess, diagnose, develop treatment plans, write progress and termination reports, provide appropriate interventions and conduct counseling services for individuals seeking career/vocational guidance.
Not open for credit to students with credit in EDP 637.

638. Group Counseling (3)
Prerequisites: Admission to the MS in Counseling, and/or PPS School Counseling Credential, or School Psychology Program, COUN 516, 513, 516 or equivalent upon approval of instructor.
Review of theories and applications of small group processes in guidance and counseling. Laboratory practice in providing and analyzing the selection of participants, leadership, interaction methods, problem-solving, and evaluation activities are examined. Students will learn how to proficiently facilitate the group process and address multicultural issues in group settings.
Not open for credit to students with credit in EDP 638. Letter grade only (A-F).

639. Seminar in Organization of Pupil Personnel Services (3)
Prerequisite: COUN 430, 506.
Practices in organizing, administrating, supervising, and evaluating pupil personnel services programs at various educational levels.
Lettor grade only (A-F). (Open only to School Counseling Master's Degree students who have advanced to candidacy prior to Fall 2005 and to PPS/SC credential only students admitted to the program prior to and including Fall 2004.)
Not open for credit to students with credit in EDP 639.

643A-D. Counseling Field Work (3)
A. School Counseling (3)
Prerequisites: COUN 607, Certificate of Clearance, EDP 536 (must be taken concurrently with either COUN 643A or 644A).
Practical experiences in counseling and guidance activities under supervision in approved school settings (total of 300 hours). Emphasis on personal and professional development as school counselors.
Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Credit/No Credit grading only. Not open for credit to students with credit in EDP 643A.

B. Student Development in Higher Education (3)
Prerequisites: COUN 516, 538.
Practical experiences of 220 hours in counseling and guidance activities under supervision in approved settings.
Applications for field work must be made no later than March 1 for the following fall semester, and October 1 for the spring semester. Not open for credit to students with credit in EDP 541. Credit/No Credit grading only.

C. Career Counseling
Prerequisites: COUN 637.
Practical experiences in counseling and guidance activities under supervision in approved settings.
Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Credit/No Credit grading only.

D. Marriage and Family Therapy
Prerequisites: COUN 608, 609.
Practical required experiences of 150 hours in counseling activities under supervision in approved settings.
Applications for field work must be made no later than March 1 for the following summer or fall semester and October 1 for the spring semester. Credit/No Credit grading only. Not open for credit to students with credit in EDP 643D.
Counseling Courses (COUN)

644A-D. Advanced Counseling Field Work (3)

A. Advanced School Counseling

Prerequisites: COUN 507 (or EDP 530 or 521 for students who have advanced to candidacy prior to Fall 2005), 630, 643A; EDP 530 (must be taken concurrently with either COUN 643A or 644A); pass CBEST.

Continued practical experiences in counseling and guidance activities under supervision in approved school settings (total of 300 hours). Emphasis on personal and professional development as school counselors.

Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Credit/No Credit grading only. Not open for credit to students with credit in EDP 544A. Credit/No Credit grading only.

B. Student Development in Higher Education (3)

Prerequisites: COUN 516, 538, 643B.

Continued practical experiences of 225 hours in counseling and guidance activities under supervision in approved settings.

Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Credit/No Credit grading only. Not open for credit to students with credit in EDP 544A. Credit/No Credit grading only.

C. Career Counseling (3)

Prerequisites: COUN 638, 643C.

Continued field work under licensed/certificated supervisors (if required by specialty area or work setting).

Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Not open for credit to students with credit in EDP 545 or EDP 644C. Credit/No Credit grading only.

D. Marriage and Family Therapy (3)

Prerequisites: COUN 638, 643D.

Continued practical required experiences of 150 hours in counseling activities under supervision in approved settings.

Applications for field work must be made no later than March 1 for the following summer or fall semester, and October 1 for the spring semester. Credit/No Credit grading only. Not open for credit to students with credit in EDP 644D.

690. Seminar in School Counseling Supervision: Theory and Practice (3)

Prerequisite: Consent of instructor.

Focuses on models and methods of school counseling supervision. Designed to prepare school counselors to be effective site supervisors for school counseling field work students.

Open to advanced students in the School Counseling Program as well as practicing school counselors. Letter grade only (A-F).

692. Special Topics in Counseling (1-6)

Advanced study of special topics in the field of counseling. Continuing education and non-degree students may enroll for units subject to suitable changes in course content.

Topics regarding continuing education for mental health providers are announced in the UCLA Schedule of Classes or the University Fall, Spring, or Summer semester Schedule of Classes. May be repeated to a maximum of 12 units with different topics, which includes previously earned credit in EDP 692.

A. Introduction to Psychotherapy

B. Advanced Psychotherapy

Prerequisites: COUN 692A or consent of instructor.

693. Advanced Seminar in Professional Development in Counseling and Human Services (1-2)

Prerequisites: COUN 515, 538, 548, 593, and concurrently enrolled in COUN 549.

Explore professional development topics, demonstrate an integration of roles, philosophy and theory for counseling and student development work. Attendance at a local, regional and national professional conference required.

Not open for credit to students with credit in EDP 693. Letter grade only (A-F).

695C. Integrative Seminar in Professional School Counseling (3)

Prerequisites: Admission to candidacy; COUN 597 (or EDP 530 or EDP 531 for students who have advanced to candidacy prior to Fall 2005), 555, 538; EDP 596; and permission from School Counseling Program Coordinator. Prerequisite/Corequisite: COUN 643A.

Designed to support integration and synthesis of knowledge, skills, and attitudes learned and developed during the school counseling program, in order to facilitate the transition from graduate student to counseling professional and lifelong learner.

Not open for credit to students with credit in EDP 695C. Letter grade only (A-F).

Educational Administration Courses (EDAD)

GRADUATE LEVEL

541. Leadership, Organizational Management, and Ethics (3)

Prerequisite: Admission to the Preliminary Administrative Services Credential Program.

Examines the relationship between leadership and organizations; the role of educational leaders; a shared vision to support equitable academic achievement for all students; multiple measures to guide decision making; the relationship among political, social, economic, legal, and cultural factors and schools.

Ten hours field experience required. Letter grade only (A-F).

544. Legal Aspects of Education: Implications and Applications for School Leadership (3)

Prerequisite: EDAD 541.

Implications and applications of school law including accessing technological sources of legal information, conducting basic legal research, demonstrating operational knowledge of school law, creating a conceptual and ethical legal leadership framework, developing legal foundational knowledge.

Ten hours field experience required. Letter grade only (A-F).

580. Introduction to Field Experience in Administration (3)

Prerequisite: Approval by the Program Coordinator, Department of Advanced Studies in Education and Counseling.

First of two on-the-job field experiences. Application of leadership theory to practical settings in quasi administrative roles. Requires 100 hours of on-the-job field participation. Credit/No Credit grading only.

597A. B.C. Directed Study (1,2,3)

Prerequisite: Approval of program coordinator and Graduate Studies Office. Application for enrollment must be made to the Office of Graduate Studies by March 1 for the summer or fall semester or by October 1 for the spring semester.

Individual creative activity; projects, surveys, intensive reading, practical and action research in an area significant to the field of educational administration. Could also involve small group activity focused on an educational problem or issues.

May be repeated to a maximum of 8 units, with no more than 3 units in one semester or for degree purposes. Letter grade only (A-F).

640. Mentoring and Professional Development Planning for the New Administrator (2)

Prerequisite: Admission to EDAD Professional Administrative Services Program.

Development of individualized induction plan based on pre-assessed...
skills and competence; plan includes assessment documents, mentoring component, goal identification based on CTC standards; completion strategies, evidences of indicators of goal attainment and evaluation plan. Credit/No Credit grading only.

647A. Fiscal Resources in Educational Administration (3)
Prerequisites: EDAD 541
Examines foundational concepts and theories of public school finance; social, economic, political, legal and technological dimensions stemming from federal, state, and local influence; identification of revenue sources, budgeting strategies/procedures, equitable distribution mechanisms, fiscal policy implications. Letter grade only (A-F). Includes at least 10 hours of field experience.

647B. Human Resources in Educational Administration (3)
Prerequisites: EDAD 541
Examines fundamental human resource leadership issues; laws, ethics, and procedures governing certified and classified personnel; employment processes, selection, retention and performance appraisal systems, professional development programs; staffing, unions, collective bargaining and contract management, strategic planning, problem solving strategies. Letter grade only (A-F). Includes at least 10 hours of field experience.

648. Schools as Organizations: Development, Management, and Assessment (3)
Prerequisite: EDAD 541
Concepts and skills of managing educational organizations. Decision making, conflict management, motivation, leadership, team building, communication, planning, and organizational change, culture and renewal. Perspectives and analysis of complex organizations and the theoretical and conceptual advances in the field. Letter grade only (A-F).

649. Urban Schools and Communities: Academic, Social, Political, and Cultural Issues (3)
Prerequisite: EDAD 541
Examines dynamics of urban schools and communities with emphasis on academic, social, political and cultural issues. Explores culturally diverse families and communities, forming partnerships and effective communication strategies, conflict resolution strategies. Letter grade only (A-F). Includes at least 10 hours of structured field experiences.

658. Organizational Development, Culture, and Change (3)
Prerequisite: EDAD 540.
Examines elements that influence schools as effective organizations, transformational leadership, organizational development, learning strategies for developing successful school cultures and instructional programs. Study of larger political, social, legal and supervisory contexts of organizations; use of behavior/management sciences. Letter grade only (A-F).

659. Educational Governance, Politics and Policy (3)
Prerequisite: EDAD 540.
Examination of systemic impact of governance systems at federal, state, local levels; implementation and policy development strategies; policies of public education, micro-politics of school sites using theoretical and pragmatic perspectives. Letter grade only (A-F).

677A. Curriculum/Program Development and Evaluation (3)
Prerequisite: EDAD 541, Corequisite: EDAD 677B.
Examines teaching, learning, and achievement for all students; policy impact on curriculum development, implementation, and assessment; distributed instructional leadership and accountability; multiple measures and data-driven assessment for program evaluation; closing the achievement gap; communication and partnership with stakeholders. Not open for credit to students with credit in EDP 677 or EDAD 650. Ten hours field experience required. Letter grade only (A-F).

677B. Instructional Leadership and Assessment (3)
Prerequisite: EDAD 541. Corequisite: EDAD 677A.
Examination of instructional leadership and supervision practices that facilitate and sustain continuous school improvement; assessment policies and practices; distributed leadership and accountability; achievement disparities between/among student subgroups; adult learning theory; technology; teacher evaluation and differentiated professional development; and community partnerships. Includes 10 hours of field experience. Letter grade only (A-F).

680. Field Experience in Educational Administration (3)
Prerequisite: Admission to program, EDAD 541, completion of at least three additional courses in the Preliminary Administrative Services Credential program, consent of instructor. Application/demonstration of standards based competence as quasi administrator. Requires three week, full-time participation at site other than candidate's own. Credit/No Credit grading only.

692. Administrator Portfolio Development and Exhibition (2)
Prerequisite: Completion of the Professional Development Plan, including the core courses, electives and/or professional development activities. Development and presentation of Professional Portfolio reflecting and documenting progress/mastery of goals connected to CTC Administrative Standards. Credit/No Credit grading only.

695. Master's Research Study in Educational Administration (3)
Prerequisites: EDP 529 or 565; advancement to candidacy in Educational Administration Option; approval of graduate advisor and written application to the Graduate Office. Application for enrollment must be made to the Graduate Office by March 1 for the summer or fall semester or by October 1 for the spring semester. Application of action research methods to identify, study, and analyze a school/district based problem. Preparation of culminating research study to include related literature, data collection methods, findings, recommendations and implications. Credit/No Credit grading only. May be repeated to a maximum of 6 units in different semesters. Not open for credit to students pursuing the Thesis option.

697. Directed Research (1-3)
Prerequisites: Consent of instructor, department chair and associate dean. Individual research or intensive study under the guidance of a faculty member. May be repeated to a maximum of 3 units for certificate and degree purposes, subject to suitable change in course content. Application for enrollment must be made by March 1 for the fall semester or by October 1 for spring. Letter grade only (A-F).

698. Thesis (3,3)
Prerequisites: Advancement to candidacy, EDP 595 or 695, approval by director, department chair and associate dean. Planning, preparation and completion of a thesis under supervision of a faculty committee. Must be taken for six units. Application for enrollment must be made to the Graduate Studies Office by March 1 for the fall semester or summer session or October 1 for the spring semester. Letter grade only (A-F).
EDUCATIONAL PSYCHOLOGY COURSES (EDP)

LOWER DIVISION

180. Family, School, Community Partnerships (3)
Introduces current family, school, and community partnership models and approaches that foster two-way partnerships with families and communities of diverse backgrounds. Historical, legal, and political perspectives regarding educational equity for diverse student populations.
Letter grade only (A-F).

UPPER DIVISION

301. Child Development and Learning: A Cross-Cultural Perspective (3)
Explores the physical, cognitive, communicative, and socio-emotional development of the child from the prenatal through adolescent period across diverse cultures with an emphasis on the learning process and developmentally appropriate teaching practices.

302. Early and Late Adolescent Development and Learning: A Cross-Cultural Perspective (3)
Explores social, emotional, cognitive, and physical development in early and late adolescence across cultures with an emphasis on the learning process and developmentally appropriate teaching practices.

305. Educational Psychology (3)
Overview of Educational Psychology. Analysis of theories of learning as they relate to intellectual, social, and personal development of diverse learners. Emphasis on learning, motivation, and development with attention to educational practices that foster critical thinking, problem solving, and performance skills.

373L. Nonverbal Communication: Interaction of Mind and Body (3)
Prerequisites: Completion of GE Foundation requirements, completion of one or more Exploration course(s), and upper division status.
History and theories of the development of mind/body integration. Enhancement of personal and interpersonal relations through lectures, discussion, films, and movement experiences. Analysis and synthesis of the interdependence of the psychological and physical processes in nonverbal communication.
Same course as UANG 373L. Not open for credit to students with credit in UANG 373L.

390. Current Topics in Education (1-3)
Orientation to and exploration of topics relevant to the college student as a learner and decision maker within the changing campus, community, and societal milieu. Lectures, discussion, field study.
May be repeated to a maximum of 6 units with different topics. Topics will be announced in the Schedule of Classes.

400. Introduction to Educational Measurement and Statistics (3)
Introductory course in educational measurement and statistical concepts. Basic concepts of measurement including descriptive statistics, norms, reliability, and validity; correlation and simple regression; derived and transformed scores; development of educational measures; interpretation of test scores. May not be used as a substitute for EDP 419 or 420.

405. Positive Strategies for Classroom Management (3)
Models and strategies of classroom management to promote student prosocial behaviors and academic growth. Includes information regarding developing, implementing, and evaluating behavioral interventions to increase student success in General and Special Education programs.

419. Educational Statistics (3)
Prerequisite: Satisfactory completion of an undergraduate mathematics course suitable for general education math credit and, if required by the major, a lower division statistics course. Introduction to descriptive and inferential statistical methods with application to educational research problems. Emphasis on understanding statistical concepts, computation skills, and the use of computer programs in data analysis.
3lectures 2 hours, laboratory 2 hours.

420. Tests, Measurements and Evaluations (3)
Prerequisite: EDP 419.
Determination, meaning and use of fundamental statistical concepts applied to problems of measurement and evaluation. Construction, interpretation and use of standardized and teacher-made tests.

432. Social and Cultural Diversity in Educational Settings (3)
Examination of personal affinities toward diverse cultures of people. Study of historical and structural factors that either promote or diminish equal human worth and either empower or oppress people based on class, race/ethnicity, gender, sexual orientation, ability, language, or religion.

459. SDAIE: Specially Designed Academic Instruction in English (3)
Theories of second language acquisition and practical applications, including methods of teaching content to English language learners; oral, reading and writing strategies; and curriculum development with application to K-12 teaching.
Letter grade only (A-F).
Same course as EDEL 459 and EDSE 459. Not open for credit to students with credit in EDEL 459 and EDSE 459.

465. Theoretical Foundations of Language Minority Education (3)
Introduction to theoretical foundations of language minority instruction. Background on the historical and political context of the development of educational language policies. Models of bilingual and English language development education.
Letter grade only (A-F). Some course as LING 465. Not open for credit to students with credit in LING 465.

490. Special Topics in Educational Psychology (1-6)
Prerequisite: Consent of instructor.
Topics of current interest in educational psychology selected for intensive study.
May be repeated to a maximum of 6 units with different topics. Topics will be announced in the Schedule of Classes.

492. Internships in the Human Services (3)
Prerequisite: Consent of instructor.
Students are placed in agencies and organizations to engage in volunteer or paid work in human services/mental health. The required fifteen-hour seminar will focus on personal values, interpersonal communication skills, critical thinking, and problem solving. Development of knowledge and skills transferable to future careers will be stressed.
A minimum of 120 hours field experience is required for the semester.

497. Independent Study (1-3)
Prerequisite: Consent of instructor and department chair.
Independent study undertaken under the supervision of a faculty member.
May be repeated to a maximum of 6 units, with no more than 3 units applicable to credential or major requirements.

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517. Seminar in School Counseling (3)
Prerequisite: CCOUN 515.
Theory, research and techniques of counseling; use and analysis of case studies. Clinical work required.
Not open for credit to students with credit in EDPS 631. Letter grade only (A-F).

519. Quantitative Educational Data Analysis I (3)
Prerequisites: ED P 419 or equivalent. An advanced educational univariate data analysis course. Hypothesis testing using analysis of variance, analysis of covariance, multiple regression, and path analysis.
Letter grade only (A-F).

520. Research Methods in Education (3)
Prerequisites: For majors in Educational Psychology ED P 419 or equivalent. For other majors, with approval of program advisor; ED P 400 or equivalent. Examination and application of educational research methodology including various types of qualitative and quantitative methods, research design, sampling methods, inferential statistics and hypothesis testing, and the structure and content of a research proposal.
Letter grade only (A-F).

524A. Psychoeducational Assessment (3)
Prerequisite/Corequisite: EDSP 528; Corequisites: EDSP 524B and admission to the School Psychology Program.
Theories of cognition and their implications for understanding learning, development, and diagnosis of disability. The history of intelligence testing and psychometric and sociocultural strengths and limitations of cognitive tests.
Not open for credit to students with credit in EDSP 524. Letter grades only (A-F).

524B. Psychoeducational Assessment: Clinical Applications (2)
Prerequisite/Corequisite: EDSP 528; Corequisites: EDSP 524A and admission to the School Psychology Program.
Practice in administration and interpretation of individually administered cognitive tests, and tests of psychological processing and achievement. Students will practice administering tests to adults and children, be observed for proficiency, and learn to apply these results to making instructional placement and eligibility decisions.
Letter grade only (A-F).

525A. Psychoeducational Assessment of Culturally and Linguistically Diverse Students (3)
Prerequisites: EDSP 524A, 524B. Corequisite: EDSP 525B.
Assessment theory and practice of culturally and linguistically diverse (CLD) individuals. Interpreting assessments to make eligibility, instructional and accountability decisions consistent with ethical, legal and measurement standards. Discussion of sociocultural issues and exemplary programs for CLD students.
Not open for credit to students with credit in EDSP 525. Letter grade only (A-F).

525B. Psychoeducational Assessment of Culturally and Linguistically Diverse Students: Clinical Applications (2)
Prerequisites: EDSP 524A and EDSP 524B. Corequisite: EDSP 525A.
Application of psychoeducational assessment practices within a clinical setting for culturally and linguistically diverse (CLD) students. Advanced training in selection, administration and interpretation of individually administered cognitive tests, and tests of psychological processing and achievement for CLD students.
Letter grade only (A-F).

527. Advanced Assessment for Intervention (3)
Prerequisites: EDP 525A, Corequisite: EDP 842A.
Focuses on furthering students’ knowledge and practice in using an ecological, problem-solving approach in schools; making informed decisions regarding the usefulness and appropriateness of assessment tools and interventions with specific populations; and writing problem-solving psychoeducational reports and data-based IEPs.
Letter grade only (A-F).

528. Orientation to Professional School Psychology (3)
Prerequisites: Admission to the School Psychology Program; CCOUN 515.
Introduction to the field of school psychology. History of the field, orientation to public education, roles and functions, laws and ethics, research base, organization and supervision, social and cultural influences, service delivery models, and current literature.
Letter grade only (A-F).

536. Collaborative Consultation in the Schools (3)
Prerequisites/Corequisites: CCOUN 643A, 644A; EDP 642A, 642B, or Field Placement in Special Education.
Theory and practice of collaborative consultation in the schools. Models, roles and skills will be discussed, rehearsed during in-class simulations, and practiced in field settings. Field experience required.
Letter grade only (A-F).

541. Seminar in Educational Measurement and Assessment (3)
Prerequisites: ED P 419, 519, and 520, or equivalent. Advanced studies examining the reliability and validity of test scores, item response theory, and other statistical approaches for the improvement of educational testing. Practical application of administration and interpretation of assessment outcomes.
Letter grade only (A-F).

560. Behavioral Analysis and Positive Behavioral Interventions (3)
Prerequisite: Admission to field work (internship) in school psychology (EDP 642 A or B) or consent of instructor.
Multidimensional and functional assessments of student behavioral problems. Developing data-based positive behavioral interventions for students with severe behavioral difficulties, including students with traumatic brain injury (TBI), Autism, emotional disturbance (ED), etc.
Letter grade only (A-F).

571. Advanced Approaches to Teaching Special Populations in General Education Settings (3)
Prerequisite: Hold Preliminary Multiple or Single Subject Credential, or equivalent, or consent of instructor.
Issues in teaching special populations in elementary and secondary schools, including students who are gifted, at risk, and have disabilities. Emphasis on establishing inclusive climates; federal, state, and local regulations; assessment; instructional strategies and modifications; collaborative school structure and classroom management.
Moots state Professional Clear credential requirement. Letter grade only (A-F).

573. Intercultural Communication in Education (3)
Introduction to the facets, parameters, and techniques of intercultural communication and its relationship to functioning in a multicultural educational environment. Studies intercultural communication within the broader social, cultural and historical context and within the study of culture itself.
Letter grade only (A-F).

574. Sociological Foundations of Education (3)
Not open for credit to students with credit in EDP 400. Letter grade only (A-F).
575. Intellectual Foundations of Educational Reform, 19th Century to Present (3)
Historical survey of the intellectual and ideological foundations of U.S. educational reform movements, with emphasis on the 19th and 20th centuries. Focus on individual educational philosophers and on major curriculum orientations, with consideration of their impact on diverse groups.
Letter grade only (A-F).

576. Education and Diversity: Historical and Contemporary Perspectives (3)
Survey of major conons in U.S. educational history during the 19th and 20th centuries from the perspectives and experiences of various diverse groups. Analysis of the implications for the diverse populations. Educational approaches that better serve educationally diverse students.
Letter grade only (A-F).

579. Curriculum-Based Assessments and Academic Interventions (4)
Prerequisites/Corequisites: Admission to the school psychology credential program and EDP 524A and 524B.
Evidence-based interventions for diverse learners, including students with disabilities, preschool-aged children, and English Language Learners. Theories and application of curriculum-based assessments and data-based intervention development, implementation and evaluation.
(3 hours lecture, 3 hours lab) Not open for credit to students with credit in EDP 579A. Letter grade only (A-F).

582. Comparative International Education (3)
Overview of education in selected countries. Study of institutional organization as well as issues that develop in particular social, economic, and political contexts. Examination of commonly shared educational problems and solutions.
Letter grade only (A-F).

583. Global Education (3)
Background on critical world issues and cultural influences. Methods and resources for application in the classroom. Format includes resource speakers and practitioners, map activities, and cultural simulation exercises.
Letter grade only (A-F).

590. Special Topics in Educational Psychology (1-3)
Prerequisite: Consent of instructor.
Advanced study of special topics in education and counseling. A student may enroll for 1-3 units to a maximum of 6 units for certificate and degree purposes, subject to suitable changes in course content. Non-degree and non-certificate students may enroll for additional units subject to suitable change in course content.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters or different topics in the same semester.

595. Qualitative Research Methods (3)
Pre-requisite: ED P 410 and 520, or equivalent. For other majors: ED P 410 and 520, or equivalent.
Identifying and comparing various approaches to program evaluation in educational settings including needs assessments; selecting evaluation questions and criteria; collecting, analyzing, and interpreting qualitative and quantitative evaluation data; and the mechanics and process of developing an evaluation plan.
Letter grade only (A-F).

594. Seminar in Human Development (3)
Prerequisites: EDP 501 or 502, and EDP 400 or 419.
Theories and issues in developmental psychology, cognitive, linguistic, perceptual, biological, psychomotor, social and emotional development; nurture vs. nature and individual differences.
Letter grade only (A-F).

595. Theories of Learning, Cognition, Motivation, and Social Development (3)
Prerequisites: EDP 501 or 502.
Analysis of current theory and research in the areas of student learning, cognition, motivation, and social development and their application in maximizing learning of all students.
Letter grade only (A-F).

619. Quantitative Educational Data Analysis II (3)
Prerequisite: EDP 519 or equivalent.
Advanced multivariate statistical analysis course: multivariate analysis of variance, discriminant function analysis, canonical correlation, exploratory factor analysis, and structural equation modeling.
Approximately 20 hours of applied work in approved educational settings is required. Letter grade only (A-F).

641A. School Psychology Practicum II (2)
Prerequisites: Admission to school psychology program, EDP 524A, 524B, 525A, 525B, and 528. Prerequisites/Corequisites: EDP 579.
Seminar and completion of 150 contiguous hours of supervised field placement for a minimum of one and maximum of 5 full days per week, with a minimum of 4 weeks and maximum of 1 year at no more than two sites and with two supervisors.
Credit/No Credit grading only.

641B. School Psychology Practicum II (2)
Prerequisites: Admission to the school psychology program, EDP 524A, 524B, 525A, 525B, 528, and 641A.
Seminar and completion of 150 contiguous hours of supervised field placement for a minimum of one and maximum of 5 full days per week, with a minimum of 4 weeks and maximum of 1 year at no more than two sites and with two supervisors.
Credit/No Credit grading only.

642A. Field Work I: School Psychology (3)
Prerequisites: EDP 525A, completion of acceptable masters degree, concurrent enrollment in EDP 527, and approval of program coordinator.
Application for field work should be made by October 1 for the spring semester, or by March 1 for summer (if offered) or fall semester.
Credit/No Credit grading only.

642B. Field Work II: School Psychology (3)
Prerequisites: EDP 527, 642A, and approval of program coordinator.
Continuation of school psychology field work experiences.
Application for field work should be made by October 1 for the spring semester, or by March 1 for summer (if offered) or fall semester.
Credit/No Credit grading only.

672. Language and Educational Policies (3)
Analysis of contemporary and historical language policies, educational language policies, and legal decisions in the United States that provide the context for current educational language practices. Comparison of U.S. experiences with those of other nations. Relationship between language attitudes and educational policy formulation.
Letter grade only (A-F).
695. Thesis Study: Plan Development and Organizing Aspects (3)
Prequisites: EDPS 400 or 419 and EDPS 520 or 525.
Design for students planning to write a thesis. Form a thesis committee by midterm in this course. Accomplish a completed draft of the thesis plan by the end of the term.

697. Directed Research (1-3)
Prequisites: Consent of instructor, department chair, and associate dean.
A student may enroll for 1-3 units to a maximum of 6 units for certificate and degree purposes, subject to suitable change in course content. The student is required to enroll and complete research under the supervision of a faculty committee. Must be taken for six units. Application for enrollment must be made to the Graduate Studies Office and sponsored by the student's department. Letter grade only (A-F). May be repeated for a maximum of 24 units.

698. Thesis (3)
Prequisites: Advances to candidacy by the Graduate Studies Office. Approval by director, department chair, and associate dean. Planning, preparation, and completion of a thesis under the supervision of a faculty committee. Must be taken for six units. Application for enrollment must be made to the Graduate Studies Office by March 1 for the fall semester or October 1 for the spring semester. Letter grade only (A-F).

699. Project (3)
Prequisites: Advances to candidacy, approval of graduate advisor, and written approval of the College of Education and Graduate Office. Information and discussion related to the development of projects, thesis, and directed research. Letter grade only (A-F). May be repeated for a maximum of 6 units.

JOINT DOCTORAL COURSES

703. Policy Issues in Community Colleges (1-3)
In-depth examination of the community college system: 1) local, state, and federal governance policies; 2) local, state, and national economic policies; 3) social and political influences on policy. Future trends in educational policy. Letter grade only (A-F).

704. Exploration of Campus Cultures: Impact and Influence (1-3)
Examination of faculty, administrative, and student cultures in terms of values, behavioral norms, impacts, and influences. Students will study research methods for campus cultures. Implications for higher education policies and practices. Letter grade only (A-F).

705. Finance in Education (1-3)
Examination of higher education finance and institutional development in the context of a broader, more comprehensive understanding of its impact on education. Letter grade only (A-F).

707. Student Learning and Development Theory in Higher Education (1-3)
Student development and learning theories based on cognitive, psychosocial, typology, and person environment perspectives. Analysis and critique of theoretical tenets relevant to understanding the college experience. Letter grade only (A-F).

708. Leadership in Education (1-3)
Current research and theories in leadership and organizational change. Multicultural leadership theories, planning, change, and effective strategies for becoming a catalyst for change. Case studies of organizational leadership for change. Examines issues, barriers, supports for, and processes and outcomes of change. Letter grade only (A-F).

709. Collaborative Reforms: Designing and Implementing Responsive Curricula (1-3)
The role of faculty and staff in the collaborative development and implementation of responsive curricula. Explore systems for curricular redesign and reform at 2- and 4-year institutions and processes for their implementation. Letter grade only (A-F).

711. Field Research Study in Education I (1-3)
Field in a series of faculty-led field research courses. Individual and small group formats. Students are exposed to and participate in approved research topics or a faculty member's research. Letter grade only (A-F).

790. Special Topics in Higher Education (1-3)
Examination of such issues as the roles and responsibilities, managing change, facilitating focus groups, data-based organizational change, applications of technology, responding to the needs of student populations, working with governing boards, staff development programs, and personnel assessment instruments. Letter grade only (A-F). May be repeated for a maximum of 24 units.

797. Directed Individual Study (1-6)
Prequisites: Consent of instructor, department chair, and associate dean. Individual research or intensive study under the guidance of a faculty member. Letter grade only (A-F). May be repeated for a maximum of 36 units.

798. Doctoral Dissertation (3)
Prequisites: Approval of instructor/doctoral candidate. Required. May be repeated for a maximum of 24 units.

Education Specialist Courses (EDSP)

303. Preparing to Teach Special Populations in the General Education Classroom (1)
Prequisites: Concurrent enrollment in EDPS 380. Emphasis on roles and responsibilities of the general education teacher in the individualized education program (IEP) process. Relevant state and federal laws pertaining to the education of exceptional populations. Letter grade only (A-F).

350. Education of Exceptional Individuals (3)
Survey of the education of individuals who have communication disabilities, visual disabilities, hearing disabilities, physical disabilities, learning disabilities, severe disabilities, and those labeled as gifted and talented. Field work required.

355. Collaborative Models of Inclusive Education: Partnerships and Strategies for Teaching All Students (3)
Fostering partnerships with families of diverse backgrounds; perspectives regarding access and equity for diverse student populations; laws regarding education of students with special needs. Letter grade only (A-F).
454. Development of Communication Skills in Bilingual Contexts (3)
Prerequisites: Consent of instructor.
Normal and atypical development of language skills in school-aged children from non-English language backgrounds. Focus on skills needed in the classroom, including communicative competence, pragmatics and literacy. Distinction between normal language development and linguistic problems/disabilities.

480. Foundations of Inclusive Education in a Diverse Society, Philosophical and Historical Perspectives and Legal Mandates (3)
Prerequisites: Admission to Education Specialist Credential Program.
Philosophical and historical foundations of language minority and special education in a diverse society. Discussion of educational theories, legal mandates, and models for serving culturally and linguistically diverse students with special needs in inclusive education.
Letter grade only (A-F).

535. Collaborative Partnerships and Effective Communication in School Settings (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Methods for developing collaborative partnerships and effectively communicating with educators, community members, families, and individuals with disabilities.
Letter grade only (A-F).

542. Technology in Special Education (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Overview of Assistive Technology and Augmentative Communication for individuals with exceptional needs. Examination of legislation, devices, and services using assistive technology and augmentative communication. Introduction to assistive technology assessment and advanced development of Computer Assisted Instruction.
Letter grade only (A-F).

546A. B.C.D.E.F. Practicum in Special Education (3,3,3,3,3,3)
Supervised experience with individuals with exceptionalities in schools, clinics, post-secondary education, workplaces, and residential settings.
Application should be made by March 1 for the fall semester and October 1 for the spring semester. Letter grade only (A-F).

550. Emerging Perspectives in Special Education (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Interpretation and application of emerging research in special education. Historical foundations, migration, legislation, policy, and practice in special education, emphasizing the last century. Current and emerging issues in the field. Relationships between research and practice.
Letter grade only (A-F).

558. Curriculum and Instruction for Students with Disabilities (3)
Prerequisites: Full admission to the Level I Education Specialist Credential program or Education Specialist Intern program or completion of the Integrated Teacher Education Program, Education Specialist option and completion of or concurrent enrollment in EDSP 564.
Curricular issues, models, and practices for students with disabilities. Emphasis on core curriculum in public schools and appropriate modifications and delivery of content to students with disabilities. Emphasis on individualized instructional planning procedures, validated instructional strategies, and collaborative teaching.
Letter grade only (A-F).

563. Advanced Methods of Teaching Individuals with Significant Disabilities (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Formal and informal assessment procedures responsive to the cultural, socio-economic and linguistic characteristics of individual students with significant disabilities. Data based decision making, curriculum adaptations and modifications, and instructional strategies. Collaboration with community agencies for successful transition from school to work.
Letter grade only (A-F).

564. Assessment and Evaluation of Students with Disabilities (3)
Prerequisites: Admission to the Education Specialist Credential program, EDSP 405, EDSP 350, 480 or consent of instructor.
Knowledge of appropriate uses of formal, informal and authentic assessment procedures for planning, monitoring and evaluating instructional programs for students with disabilities. Emphasis on issues in assessing and evaluating culturally and linguistically diverse students.
Letter grade only (A-F).

565. Advanced Methods of Teaching Individuals with Mild/Moderate Disabilities (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Advanced assessment, methods, strategies and curriculum adaptations for students with mild/moderate disabilities at all levels. Emphasis on collaboration, diversity, literacy, technology and transition.
Letter grade only (A-F).

566. Transition Into, Through, and Beyond School for Individuals with Disabilities (3)
Prerequisites: Acceptance in Education Specialist Level II program or Master of Science in Special Education program, development of an Individualized Induction Plan, or consent of instructor.
Examination of major issues and approaches to promoting successful transition of youth with disabilities into, through, and beyond school. Emphasis on instructional strategies for teaching adolescent youth with disabilities at the secondary level.
Letter grade only (A-F).

567. Curriculum and Instruction for Students with Disabilities: Literacy, Communication, Social and Physical Education (3)
Prerequisites: Full admission to the Level I Education Specialist Program or Education Specialist ITP and completion or concurrent enrollment in EDSP 564.
Curricular issues, models and practices related to teaching students with disabilities in literacy, communication, physical education, and social behaviors. Emphasis on core curriculum, standards-based instruction, and differentiated instruction. Instructional planning and validated teaching strategies.
Letter grade only (A-F).

569. Curriculum and Instruction for Students with Disabilities: Math, Science, and Life Skills (3)
Prerequisites: Full admission to the Level I Education Specialist Program or Education Specialist ITP and completion or concurrent enrollment in EDSP 564.
Curricular issues, models and practices related to teaching students with disabilities in math, other content areas, and life skills.
Emphasis on core curriculum, standards based instruction, and differentiating instruction. Instructional planning and validated teaching strategies.
Letter grade only (A-F).

587A. Advanced Field Study and Seminar: Education Specialist Credential in Mild/Moderate Disabilities (6)
Prerequisite: Admission to the Level I Education Specialist Credential in Mild/Moderate Disabilities. Must complete all Level I courses. Application for admission should be made by March 1 for the summer and fall semester and October 1 for the spring semester.
Advanced field study in a public or private school or community-based site serving individuals with mild/moderate disabilities. Candidates will demonstrate competencies in their own classroom or under the supervision of a university supervisor.
Students may concurrently enroll in EDSP 587B upon advisement by their faculty advisor. Credit/No Credit grading only.

587B. Advanced Field Study and Seminar: Education Specialist Credential in Mild/Moderate Disabilities (6)
Prerequisite: EDSP 587A or concurrent enrollment in EDSP 587A upon advisement by their faculty advisor. Application for admission should be made by March 1 for the summer and fall semester and October 1 for the spring semester.
Advanced field study in a public or private school or community-based site serving individuals with mild/moderate disabilities. Candidates will demonstrate competencies in their own classroom or under the supervision of a university supervisor.
Credit/No Credit grading only.

588A. Advanced Field Study and Seminar: Education Specialist Credential in Moderate/Severe Disabilities (6)
Prerequisite: Admission to the Level I Education Specialist Credential in Moderate/Severe Disabilities. Must complete all Level I courses. Application for admission should be made by March 1 for the summer and fall semester and October 1 for the spring semester.
Advanced field study in a public or private school or community-based site serving individuals with moderate/severe disabilities. Candidates will demonstrate competencies in their own classroom or under the supervision of a university supervisor.
Students may concurrently enroll in EDSP 588B upon advisement by their faculty advisor. Credit/No Credit grading only.

588B. Advanced Field Study and Seminar: Education Specialist Credential in Moderate/Severe Disabilities (6)
Prerequisite: EDSP 588A or concurrent enrollment in EDSP 588A upon advisement by their faculty advisor. Application for admission should be made by March 1 for the summer and fall semester and October 1 for the spring semester.
Advanced field study in a public or private school or community-based site serving individuals with moderate/severe disabilities. Candidates will demonstrate competencies in their own classroom or under the supervision of a university supervisor.
Credit/No Credit grading only.

695S. Seminar in Special Education (3)
Prerequisites: Advancement to candidacy, and written application to Graduate Office. Application for enrollment must be made by March 1 for the summer session or fall semester, or by October 1 for the spring semester.
Studies of problems and issues in special education. Relating research to practice in the area of exceptional individuals. For qualified candidates preparing for the comprehensive examination. Not open for credit to students with credit in EDSP 650. Letter grade only (A-F).

Educational Technology Courses (ETEC)

LOWER DIVISION

100. Technology as a Tool for Self-Directed Learning (3)
Introduction: (a) psychological foundations of self-directed learning; (b) technology as a tool to obtain, organize, evaluate, manipulate, and present information; and (c) evaluation of technologies for use in education, including online/hybrid courses and collaborative learning.
(2 hours lecture, 3 hours laboratory) Letter grade only (A-F).

110. Introduction to Computers as Tools (1)
Introduction to operating systems, terminology, and components of computing systems. Introduction to computer applications including word processing, databases, and spreadsheets. Introduction to University e-mail systems and electronic searching.
Letter grade only (A-F).

171. Critical Thinking Using Computer Technology (3)
Prerequisite: Completion of Computer Science 112A. Critical thinking abilities; computer technology. Critical thinking skills in conjunction with the use of computer technology. Introduces basic concepts in computer technology.
Letter grade only (A-F).

411. Assessment of Computer Technology Competency, Level I (1)
Appropriate only for students who are already proficient with the material in ETEC 444. Provides students with an opportunity to meet the California Level I computer technology requirement by a performance assessment. Two class meetings and online activities.
Credit/No Credit grading only.

435/535. Accessible Electronic and Information Technologies (3)
Prerequisite: Either ETEC 110, 411, 444 or consent of instructor.
Critical use, analysis and evaluation of computer applications for accessibility and usability for populations with diverse needs. Terminology, design principles, and applications of accessible technologies. Legal, ethical, and societal issues in developing and adopting accessible electronic and information technologies.
Letter grade only (A-F).

444. Computer Technology in Education, Level I (3)
Prerequisites: Course design assumes familiarity with topics introduced in ETEC 110.
Introduction to educational computer technology: resources and tools for professional use; strategies for integrating computers into teaching; applications to diverse learners; legal, ethical, and societal issues. Meets the Level I teaching credential computer technology standard.
(Seminar 2 hours, Laboratory 2 hours)

449. Technology Applications for Educators (1-3)
Prerequisites: Consent of Instructor.
Contemporary applications of technology for teaching, learning, and the management of instruction. Demonstration and hands-on experience with computer and media applications in educational settings.
Topics are announced in the Schedule of Classes. May be repeated to a maximum of 12 units with different topics.

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Educational Technology Courses (ETEC)

A. Internet Resources for Educators
Introduces the growing number of Internet-based educational resources for educators. Discussion, demonstrations, and hands-on experience in the use of computer communication tools, including e-mail, file transfer protocol (FTP), newsgroups, listservs, and the worldwide web.

B. Evaluation and Selection of Instructional Technology Resources
Introduces a variety of evaluation instruments and techniques for evaluating and selecting instructional technology resources to support the California curriculum frameworks.

GRADUATE LEVEL

510. Foundations of Educational Technology (3)
Prerequisites: Either ETEC 444 or equivalent experience satisfying the California Level I computer technology standard, or consent of instructor.
Introduction to the field of educational technology. Overview of historical approaches, research trends, major developments, and prominent issues in the field. Incorporation of social, historical, psychological, and philosophical perspectives in the study of educational technology.
Letter grade only (A-F). (Seminar 3 hours)

523. Computer Technology in Education, Level II (3)
Prerequisites: Either ETEC 411, 444, or equivalent experience satisfying California Level I computer technology standard.
Principles for integrating computer technology into learning environments to improve planning, designing, and implementing learning experiences; educational communication and collaboration; assessment and evaluation.
Meets California Level II computer technology standard. (Seminar 2 hours, laboratory 2 hours) Letter grade only (A-F).

525. Social and Cultural Implications of Educational Technology (3)
Examination of social and cultural implications of educational technologies, considering issues of cultural bias, equity, and questions of who benefits from particular technologies. Informational applications of computer technologies to promote learning about different cultures.

530. Educational Technology Leadership (3)
Prerequisites: Either ETEC 523, or consent of the instructor.
Examines leadership related to implementation of educational technology in education. Theory, knowledge, and skills necessary to use, evaluate, plan, and implement technologies in education system. Examines ethical issues including access and equity.

535/435. Accessible Electronic and Information Technologies (3)
Prerequisite: Either ETEC 110, 411, 444 or consent of instructor.
Critical use, analysis, and evaluation of computer applications of computer technology for accessibility and usability for individuals with diverse needs. Terminology, design principles, and applications of accessible technologies. Legal and ethical issues in developing or adopting accessible electronic and information technologies.
Letter grade only (A-F).

551. Education and the Internet (3)
Prerequisites: Either ETEC 411, 444, or equivalent experience satisfying the California Level I computer technology standard, or consent of instructor.
Survey of educational applications across the Internet; characteristics of teaching and learning mediated through the Internet; analysis and design of Internet-based learning activities; design and development of online courses; implementation, management, and administration of online learning.
(Seminar 2 hours, laboratory 2 hours)

553. Instructional Design (3)
Prerequisites: ETEC 523 or equivalent experience satisfying the California Level II computer technology standard.
Principles of instructional design emphasis on designing effective teaching strategies with educational technology. Theories and models to plan, create, evaluate, and refine learner-centered educational activities.
Letter grade only (A-F).

570. E-Learning Design and Development (3)
Prerequisite: ETEC 523 or consent of instructor.
Introduction to e-learning design and development, including project management, instructional analyses and strategies, software selection, and evaluation. Interactive multimedia development applications, processes, and principles. Design and production of technology-enhanced instruction.
Letter grade only (A-F). (Seminar 2 hours, laboratory 2 hours)

580. Field Experience in Educational Technology (3)
Prerequisites: ETEC 523 and either ETEC 530, EDP 520 or 565.
Students investigate and experience occupation or environment utilizing a form of educational technology. Under instructor guidance, students perform 90 field experience hours in educational technology environment. Instructor approval required for site selection.
Letter grade only (A-F).

623. Developing Technology - Based Learning (3)
Prerequisites: ETEC 523, 553.
Discussion, demonstration, and hands-on experience toward development of technology-based interactive learning programs. Concepts of technology-based instructional design. Authoring tools for creating simulations, educational games, and interactive assessment tools.
(Seminar 2 hours, laboratory 2 hours)

Educational Library Courses (ELIB)

UPPER DIVISION

497. Independent Study (1-3)
Prerequisites: Consent of instructor and department chair.
Independent study under faculty supervision. May be repeated to a maximum of 6 units, no more than 3 units applicable to credential or major requirement.

GRADUATE LEVEL

500. Foundations of Information (3)
Principles of information and information technology in organizations (particularly in Western education) and society. Topics include social needs and demands, diffusion of knowledge and technology, information seeking and use, information technology and culture.
Letter grade only (A-F).

510. Collection Development (3)
Criteria, tools, procedures, and policies for evaluating, selecting, and maintaining informational resources to use in information organizations.
Letter grade only (A-F).

528. Information Literacy and Reference Services (3)
Letter grade only (A-F).
50. Management of Information Organizations (3)
Philosophy, principles and problems of planning, organizing, supervising and managing a school library media program, technology service, or other information organization.
Not open for credit to students with credit in LI 550. Letter grade only (A-F).

570. Library Media Technologies (3)
Prerequisites: Level I computer technology knowledge and skills. Evaluation, selection, and integration of computer, digital, audiovisual and other technologies for use in schools and other library settings; issues of technology planning, instruction, collaboration, assessment, and digital citizenship.
Letter grade only (A-F).

580. Field Experience in Libraries (4)
Prerequisites: Consent of program coordinator. Students will model effective practices in administering a library program under the supervision of a qualified library professional. Applications for field experiences are due March 1 for the summer or fall semester and October 1 for the spring semester.
Not open for credit to students with credit in LI 580. Letter grade only (A-F).

Social and Cultural Analysis of Education Courses (SCAE)

550. Foundations of Social and Cultural Analysis of Education (3)
Introduction to central theories and concepts and development of core competencies in social and cultural analysis of education; discussion of applications of critical theories and pedagogies in education; examination of the significance of social difference (e.g. race, class, gender, sexuality, language).
Letter grade only (A-F).

551. Critical Pedagogies (3)
In-depth examination of foundations and constructs of critical pedagogy in various educational contexts; applications of critical pedagogies in the United States and around the world; exploration of the relationship between critical pedagogies and social and educational justice.
Letter grade only (A-F).

560. History of Social and Educational (In)Equality (3)
Historical survey of education as an institution; struggles for educational justice from the 19th century to present; analysis of the historical foundation of persistent educational inequalities; emphasis on peoples of color, women, people with disabilities, LGBT individuals, and immigrants.
Letter grade only (A-F). Not open for credit to students with credit in ED P 576.

561. Urban Educational Policy (3)
Critical examination of the historical, cultural and political-economic dimensions of educational policy; impact of educational policy on student learning, experiences and outcomes; issues of difference, identity and justice in educational policy; special attention to urban education policy issues in California.
Letter grade only (A-F). Not open for credit to students with credit in ED P 575.

562. Agency, Resistance and Identity in Education (3)
Sociological and anthropological approaches to understanding youth cultures, academic resistance, identity formation, and how students influence, and are influenced by, educational experiences; youth and community organizing; race, class and gender, sexuality, language, etc. as factors in education.
Letter grade only (A-F). Not open for credit to students with credit in ED P 574.

564. Language and Education Policies (3)
Examination and analysis of historical and contemporary U.S. language policies, educational language policies, and legal decisions as context for current educational language practices; comparison of experiences with other nations; discussion of the relationship between language attitudes and educational policy formation.
Letter grade only (A-F). Not open for credit to students with credit in ED P 672.

566. Themes in Comparative International Education (3)
Examination of the historical and theoretical foundations as well as current debates, tensions and themes in the field of comparative international education; discussion of practical applications to address social and educational inequalities that exist around the world.
Letter grade only (A-F). Not open for credit to students with credit in ED P 582.

567. Educational Issues in Global Perspective (3)
Analysis of topical issues related to education in various international contexts; examination of topical issues across countries. Students have the opportunity to select the issues under investigation in consultation with the instructor.
Letter grade only (A-F). Not open for credit to students with credit in ED P 582.

568. Globalization and Educational Reform (3)
In-depth study of globalization and its impact on education around the world; analysis of policy borrowing and lending processes in the educational arena; rational and local interpretations of global or borrowed educational policies; examination of educational reform processes.
Letter grade only (A-F).

695. Social and Cultural Analysis of Education Capstone
Synthesis of concepts and ideas in the social and cultural analysis of education; implications of social and cultural theories for educational practice in a variety of settings; strategies for effecting social and educational justice.
Letter grade only (A-F).
AEROSPACE STUDIES
College of Health and Human Services

U. S. Air Force Reserve Officers Training Corps (AFROTC)

Introduction

Through arrangements with Loyola Marymount University (LMU) in west Los Angeles, students may participate in the Air Force Reserve Officer Training Corps (AFROTC) program. AFROTC offers a variety of two, three, and four year scholarships, many of which pay the full costs of tuition, books, and fees. Successful completion of as little as four semesters of AFROTC academic classes and leadership laboratories can lead to a commission as a second lieutenant in the United States Air Force.

Classes consist of one hour of academics and two hours of laboratory for freshman and sophomores and three hours of academics and two hours of laboratory for juniors and seniors. 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. Currently, LMU does not charge for the courses and offers cross-town students free parking while attending AFROTC activities. Additionally, AFROTC cadets under scholarship and all juniors and seniors receive a monthly tax-free stipend.

For more information, contact the Loyola Marymount University Department of Aerospace Studies (AFROTC) at (310) 338-2770.

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AFRICANA STUDIES
College of Liberal Arts

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Faculty: Iratozi Bunwing, LaKeita Hubbard, Maulana Karenga, Aleski Moki, Jim C. Robinson, Jodie M. Sennado, Dwayne Uku-Watson, Aaron Wilson
Undergraduate Advisor: Maulana Karenga
Administrative Support Coordinator: Monique Heacock-Wattos

Students desiring information should contact the department office for referral or the faculty advisor.

Career Possibilities
Social Scientist • Social Worker • Counselor • Teacher
• Archivist • Journalist • Public Relations Consultant
• Community Organizer • Recreation • Law • School Administrator • Linguist • Parole Officer • Probation Officer
• Editor • Writer • Urban/Regional Planner • Public Policy Administrator • Foreign Policy Officer • Researcher (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Africana Studies major is designed to provide students with a rich intellectual experience through the critical and systematic study of the life, thought and practice of African peoples, Continental and Diasporan. In their current and historical dimensions. The discipline of Africana Studies focuses on the critical study of African Americans, Continental Africans, Afro-Caribbeans and Afro-Latinos, but also allows for study of African peoples in Asia and Europe. Africana Studies seeks to critically examine and understand the African experience from an Afrocentric or African-centered perspective, i.e., from a position internal to the culture of the people studied, while retaining a respect for and openness to the multicultural character and instructive value of the total human experience. Thus, Africana Studies emphasizes an interdisciplinary and multicultural approach to scholarship, teaching and learning as vital to the discipline and to the general education enterprise. Within this understanding, Africana Studies expects students to develop a critical capacity for comparative analysis, holistic thinking, multicultural and international awareness, and sensitivity to issues of race, ethnicity, class and gender.

Africana Studies understands itself as the central site for the critical, coherent and concentrated study of African peoples in their contemporary and diversity. It therefore offers a wide range of courses for the general academic interest and requirements of the university and the specialized concentration of its majors and minors in various areas of focus. The subdisciplines of the discipline include: Africana theory and philosophy, Africana women's studies, African American historical studies, and Continental African studies.

Africana Studies offers knowledge and training which provide a solid foundation for those interested in: (1) continuing their education in graduate studies in Africana Studies or in such areas as law, education, social and behavioral sciences, business, etc.; (2) seeking to enhance their education and employability by adding a multicultural and diversity aspect to it (teachers, administrators, counselors, business persons, etc.), (3) pursuing various careers, especially those which increasingly require or prefer ethnic and multicultural knowledge and competence. Thus, Africana Studies majors have been successful in a variety of fields, including education, law, politics, urban planning, business, government, journalism, psychology, social work, criminal justice, acting, creative writing, and foreign service.

Given its appreciation for its origins and continuing rootedness in social and academic concerns and initiatives, the Africana Studies Department values and constantly expands its links with the local, national and world African community. It thus encourages students to take advantage of opportunities to do service learning and internships, and study abroad. The Department also encourages and supports faculty/student collaboration in conferences, forums, field trips and joint research and writing projects. The Department of Africana Studies also places great emphasis on enhanced mentoring and advisement in the interest of a pedagogy of cooperative teaching and learning which fosters academic excellence, student success and social responsibility and engagement.

Undergraduate Programs
Bachelor of Arts in Africana Studies
(code B/STBA01) (120 units)

Requirements
A minimum of 39 units is required for the major in Black Studies: 12 lower division and 27 upper division units. The distribution of courses within Africana Studies affords the students the opportunity for in-depth exploration of either African American Studies or Continental African Studies areas or a combination of the two, as well as other Diasporan studies, the e.g., Caribbean basin.

Lower Division (12 units)
Required Core Courses (6 units): AFRS 110, 120 or 121
Elective Courses (6 units): one course from each of the following groups:
Group A (Social Science): AFRS 115, 120, 150, 154, 200, 201, 210
Upper Division (27 units)
Required Core Courses (12 units): AFRS 330, 335, 332 or 364, 496
Elective Courses (15 units): one or more courses selected from each of the following groups:
Group A (Social Sciences): AFRS 304, 310, 319, 325, 331, 332, 337, 345, 404, 410, 430

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Group B (Humanities): AFRS 343A, 343B, 346, 353I, 363, 370, 415
Group C (Theory): AFRS 380, 400I, 454I, 460, 475, 498

Certificate in Africana Studies
(code B/STCT01)

Students majoring in other departments of the University but interested in Africana Studies may at the same time pursue a program leading to a Certificate in Africana Studies. Courses used to meet the certificate requirement may, where applicable, also be used simultaneously to meet General Education requirements or the major or minor requirements of cooperating departments.

Requirements
1. A major in another academic discipline. Certificate can be completed prior to or simultaneously with completion of the B.A. requirement.
2. A minimum of 24 units of which at least 12 must be in upper-division courses, with two or more courses selected from each of the following:
   Group A: AFRS 110, 154, 210, 325, 330, 332, 335, 370, 420
   Group B: AFRS 160, 343A, 346, 363, 450
   Group C: AFRS 120, 121, 200, 201, 304, 330, 337, 354, 400I, 410, 454I

Minor in Africana Studies
(code B/STUM01)

Requirements
The minor in Africana Studies requires a minimum of 24 units of which at least 12 units must be in upper-division courses, with two or more courses selected from each of the following:
   Group A: AFRS 120, 121, 154, 200, 201, 210, 304, 310, 325, 330, 332, 335, 364, 370, 400I, 404, 410, 420, 430
   Group C: AFRS 110 and 495
   The Minor in Black Studies is open to any non-Black Studies majors.

Courses (AFRS)

LOWER DIVISION

1. Writing Skills (3)
   Prerequisite: Students who score 147 or below on the English Placement Test and who have not taken equivalent courses in another department are eligible for enrollment in this course. Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence, and paragraph. Methods for developing and organizing ideas in coherent essays. Conventional mechanics, spelling, and grammar. Also for baccalaureate and ESL students. Does not count toward graduation, but does count toward course load. Credit/No Credit grading only. Not open for credit to students with credit in B/ST 1 or 170A.

100. Composition (3)
   Prerequisite: A recorded total score of 151 or above on the English Placement test, or credit in B/ST 1 (or its equivalent) or consent of the instructor.

Writing, revising, and editing non-fiction prose, with emphasis on exposition and argument. Critical reading strategies for research. Satisfies the baccalaureate degree requirement for one course in written composition in English. Also for baccalaureate and ESL students.
   Not open for credit to students with credit in ENGL 100W, B/ST 100, ASAM 100, CHLS 104.

110. Introduction to Africana Studies (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   A critical survey of the major themes, issues, concepts, current research, schools of thought, theorists and scholars in the discipline of Africana Studies, as well as its historical evolution and academic rationale.
   Not open for credit to students with credit in B/ST 110.

115. Introduction to African Politics (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   Survey course on African American history with origins in African culture and civilization. Focus on the role, impact and significance of African Americans in the U.S. from the colonial period through the American Revolution, enslavement and the Civil War.

120. African American History to 1865 (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   Survey course on African American history with origins in African culture and civilization. Focus on the role, impact and significance of African Americans in the U.S. from the colonial period through the American Revolution, enslavement and the Civil War.

121. African American History Since 1865-Present (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   Imoport of social, economic and political change on African Americans after the Reconstruction period. Issues of migration, education, cultural development and business enterprises will be examined.

140. Introduction to African American Literature (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   A study of selected or representative literature of the African American writer. Special attention will be given to stylo, content, methodology and thematic approach.

150. Critical Thinking in Africana Studies (3)
   Prerequisite: Completion of or concurrent enrollment in AFRS 100 or equivalent.
   Introduction to the nature and process of critical thinking. Extensive practice in critical reasoning directed toward developing cognitive skills and dispositions central to its application in academic work and in the analysis and advocacy of personal perspectives and social issues.

154. Introduction to Africana Women's Studies (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   Critical introduction to basic concepts, perspectives and methodology in Africana women studies, focusing on historical and contemporary continental and diasporic African women’s experience, initiatives, issues, and intersections of race/class/gender within the context of their oppression, resistance and internal creative capacity.

155. African American Music (3)
   Prerequisite/Co-requisite: One G.E. foundation course.
   Non-technical survey of African American music. Some attention given to the impact of social movements on the musician and the music produced. Gospel, jazz and well-known derivatives will be highlighted.

Not open for credit to students with credit in B/ST 155.
160. Introduction to Africana Arts (3)
Prerequisite/Corequisite: One G.E. foundation course.
A presentation of prevailing themes, methodology, concepts and meaning in African American art. Equal time will be given to early and contemporary art. The work of some Controversial African artists will be introduced as appropriate.
Not open for credit to students with credit in B/St 160.

167. Exploitation of the African American Athlete (3)
Study of the socio-dynamics of amateur, professional and collegiate sports activity in the United States as it relates to the African American community. Case studies of well-known African American athletes will also be presented.
Not open for credit to students with credit in B/St 167.

170A. Elementary Swahili (4)
Prerequisite/Corequisite: Any Foundation Course.
Introduction to grammar, syntax, comprehension, reading, writing and conversation in the language. Attention will be given to cultural content throughout the course.
Letter grade only (A-F). Not open for credit to students with credit in B/St 170A.

170B. Elementary Swahili (4)
Prerequisite: AFRS 170A or equivalent competency.
A continuation of AFRS 170A. Advanced grammar, syntax, comprehension, reading, writing and conversation in the language.
Letter grade only (A-F). Not open for credit to students with credit in B/St 170B.

180. African American Language in America (3)
Historical, phonological, and sociological aspects of the language of African Americans, traces early uses in Africa, linguistic development from lingua franca to pidgin and creole, linguistic symbols, terms, and analysis applied to African American English; difference versus deficit theory.
Not open for credit to students with credit in B/St 180.

200. Ancient African Civilizations (2)
Prerequisite: Completion of GE Foundation requirements.
A study of ancient African empires, kingdoms and states, including discussions of political institutions, social structures, education, cultural values, trade and international relations.
Not open for credit to students with credit in B/St 200.

201. History of Slavery (3)
Prerequisite: Completion of GE Foundation requirements.
Historical examination of trans-Atlantic slave trade and its impact on Africa and the Western Hemisphere. Nature of slavery in Africa, Greece, Italy, the Caribbean, the Middle East, South America, and the United States. Legacy of slavery.
Not open for credit to students with credit in B/St 201.

205. Modern Black South African Literature (3)
Prerequisite: Completion of GE Foundation requirements.
Study of South African literature written in English by Africans since 1900’s to present. “Black” used broadly to include South Africans of mixed race and of the racial laws and policies of the white minority government separated, classifying them as “Colored.”
Letter grade only (A-F). Not open for credit to students with credit in B/St 205.

210. African American Community (3)
Prerequisite: All Foundation Courses.
Examines the social structure and challenges in the community life of African-Americans as compared to other ethnic groups. Explores and analyzes how institutional and stratified patterns, demographic changes, social movements, community organizational programs affect African-Americans. Case studies presented.
Not open for credit to students with credit in B/St 210.

215. U.S. Diversity and the Ethnic Experience (3)
Prerequisites: Open only to Integrated Teacher Education Program students.
Survey of four major ethnic groups (American Indians, African American, Latino American, and Asian American) in American society from the colonial era to the present. Special attention to the formation and transformation of each ethnic group and their individual and collective roles in the development of the United States.
Same course as AJS 215, ASAM 215, CHLS 215. Not open for credit to students with credit in AJS 215, ASAM 215, B/St 215, CHLS 215. Departments take turns offering the course in the Fall semester. Letter grade only (A-F).

240. African and African American Folklore and Culture (3)
An examination and presentation of material on folklore, folk tales, and folk heroes in the African American community. Some attention also given to African mythology.
Not open for credit to students with credit in B/St 240.

255. Introduction to Hip Hop (3)
Prerequisite: Any Foundation Course.
A critical exploration of Hip Hop’s history and culture, which includes analysis of its impact and influence on contemporary aesthetic culture, race relations, gender politics and struggles for social justice.
Not open for credit to students with credit in B/St 255.

UPPER DIVISION

240. African and African American Folklore and Culture (3)
An examination and presentation of material on folklore, folk tales, and folk heroes in the African American community. Some attention also given to African mythology.
Not open for credit to students with credit in B/St 240.

304. The African Colonial Experience (3)
Prerequisite: Completion of GE Foundation requirements.
Critical examination of colonialism as a world phenomenon focusing on colonialism in Africa as the paradigm and point of departure for a specific and comparative understanding.
Not open for credit to students with credit in B/St 304.

310. African American Male and Female Relationships (3)
A comprehensive study of male/female patterns of interaction in the African American Community. Some attention given to institutional impact, role changes and projected images of relationships.
Not open for credit to students with credit in B/St 310.

319. The Ethnic Experience in the U.S. (3)
Prerequisite: Completion of GE Foundation requirements.
Comparative study of race, cultures, and ethnic relations in U.S. society with special focus on experiences of four core groups: Native Americans, African Americans, Asian Americans, and Latino Americans.
Same course as AJS 319, ASAM 319, CHLS 319, WGSS 319. Not open for credit to students with credit in AJS 319, ASAM 319, CHLS 319, WGSS 319. (Lecture/Discussion.)

325. African Psychology (3)
Prerequisite: AFRS 110 or PSY 100
Develops the concept of Africana Psychology. Using comparative techniques, the course introduces students to common consequences in the experience of being a person of African descent, or a person of color.
Not open for credit to students with credit in B/St 325.

330. Politics of the African American Community (3)
Prerequisites: AFRS 110 and 121.
Study of the perspectives, styles, problems and dynamics of political activity in the African American Community.
Not open for credit to students with credit in B/St 330.
331. African American Juvenile (3)
Prerequisite: AFRS 210 or consent of instructor.
Critical approach to the problem of juvenile justice in the African American community.
Not open for credit to students with credit in BIST 331.

332. Civil Rights and the Law (3)
Prerequisite: Completion of GE Foundation requirements
Designed to provide the student with a basic understanding of the interaction between the American legal system and civil rights of African Americans, other minorities, women and the general citizenry.
Not open for credit to students with credit in BIST 332.

335. Economic Development in the African American Community (3)
Prerequisites: AFRS 110 and 121
Development of business and banking institutions in the African American community. Some attention given to the impact of external factors on development.
Latter grade only (A-F). Not open for credit to students with credit in BIST 335.

337. Cultures of African Peoples (3)
Prerequisites: Completion of GE Foundation requirement, AFRS 200 or consent of instructor.
Critical presentation of a cultural map of African people emphasizing geography, migration and cultural similarities.

343A. African Literature (3)
Prerequisites: Completion of GE Foundation requirements and one or more Exploration courses.
A general survey of traditional and contemporary African Literature within the context of the historical, political, social, economic, and cultural movements. Also a comparison of Pan-African literature and Western literature.
Not open for credit to students with credit in BIST 343A.

343B. Caribbean Literature (3)
Prerequisite: Completion of CGL Foundation.
A general survey of traditional and contemporary Caribbean literature within the context of the historical, political, social, economic and cultural movements. Also a comparison of Pan-African literature and Western literature.
Not open for credit to students with credit in BIST 343B.

345. Politics of Black Power (3)
Systematic analysis of the Black Power movement of the 1960's, including contributions and contradictions of major organizations, leaders and ideologies.
Not open for credit to students with credit in BIST 345.

346. Africana Theatre (3)
Prerequisites: All Foundation Courses
Introductory survey course of Africana theatre as a historical medium, profoundly revealing in its humanistic, literary, social and cultural heritage as it relates to Africa, America and the Caribbean. (Lecture 2 hours, activity 2 hours.) Not open for credit to students with credit in BIST 346.

351. Religions of African Peoples (3)
Prerequisites: Completion of the CGL Foundation, one or more exploration courses, and upper division standing.
Critical examination of selected spiritual and ethical traditions of the world African community with emphasis on Islam, Christianity and Islam, their sacred texts and commentaries, major themes, representative figures, and comparative analyses of their continental and diaspora expressions.
Not open for credit to students with credit in BIST 351.

354. African American Women and the Civil Rights Movement (3)
Prerequisite: Completion of the GE Foundation requirements
A critical examination of vital and multiple roles African American women played in the modern civil rights movement. Emphasis on African American women's agency, activism and shared vision, and role as an essential political force in reconceiving and reshaping U.S. history.
Not open for credit to students with credit in BIST 354.

363. History of African Art (3)
Prerequisite: Completion of GE Foundation requirements
Survey of African art from antiquity to the present as an integral part of African culture, including historical, cultural and religious contexts.
Not open for credit to students with credit in BIST 363.

370. African and African American Images in the Mass Media (3)
Prerequisite: AFRS 121
Examination of portrayals of African and African American people in mass media, past and present. Primary emphasis on newspapers, radio, films and television.
Not open for credit to students with credit in BIST 370.

380. African Political Theory (3)
Prerequisite: BIST 115
Examination of theorists and theories which shape African political philosophy. Special attention given to the concepts of Pan-Africanism, African socialism, Negritude and revolution.
Not open for credit to students with credit in BIST 380.

381. African Americans and Parties Politics (3)
Analysis of African American participation in U.S. political party process. Special features include information on African American participation in Republican, Democratic and third party organizations. Material and discussion on independent African American political party efforts included.
Not open for credit to students with credit in BIST 381.

400L. African American Social Thought (3)
Prerequisite: Completion of GE Foundation requirements, one or more Exploration courses, and upper division standing.
Survey of African American intellectual history, with emphasis on social theories and opposing schools of intellectual thought.
Not open for credit to students with credit in BIST 400L.

404. Contemporary Issues of the Africana World (3)
Study of the shifting power and International status of the Africana world. Domestic issues, geo-politics and the diplomatic policies of selected countries will be highlighted.
Not open for credit to students with credit in BIST 404.

410. The African American Family (3)
Prerequisites: Completion of GE Foundation requirements. AFRS 325 or consent of instructor.
Systematic study and social-historical analysis of the structure and function of the African American Family in the United States. Sociological, theoretical and comparative analysis of the models of family units, roles and interpersonal relations in society. Comparison with other family units in America.
Not open for credit to students with credit in BIST 410.

415. International Africana Children’s Literature (3)
A survey of literature for and about African and African American children by authors from Africa, the U.S., the Caribbean and the rest of the Diaspora.
Not open for credit to students with credit in BIST 415.
420. African American Children in Public Schools (3)
Theories, concepts and principles relating to the intellectual growth, development and learning of African American children.
Not open for credit to students with credit in B/ST 423.

423. Issues in Psychological Assessment of African Americans (3)
Prerequisites: candidates must have working knowledge of statistical concepts, upper-division standing in Africana Studies or consent of instructor.
Examination of issues, problems, and practices in the assessment of African American children.
Not open for credit to students with credit in B/ST 423.

430. African Political Leadership in the Twentieth Century (3)
Prerequisite: Completion of Ge: Foundation requirements.
Critical examination of African's search for national liberation and cohesion, collectively built institutions, movements, parties and ideological self-definition. Comparative study of traditional African leadership concepts and modern forms. Focus on selected countries and major African leaders.
Not open for credit to students with credit in B/ST 430.

450. Africana Writers Workshop (3)
Prerequisite: ENGL 100, AFRS 100, or equivalent.
Requires extensive writing in four major areas: poetry, drama, fiction and documentaries. Assumes that technical or grammatical problems of writing have been taken care of and focuses on themes which are African-centric.
Not open for credit to students with credit in B/ST 450.

452. Crime and Justice in the African American Context (3)
Prerequisite: AFRS 210 or 332
Study of the interrelationship between criminal behavior, race, ethnicity, class, social context and the criminal justice system.
Not open for credit to students with credit in B/ST 452.

454. Africana Womanism: An Intellectual History (3)
Prerequisites: Completion of the G.E. foundation requirements, one or more Exploration courses and upper division standing.
Historical and critical study of the major schools of thought in Africana womanism, including continental and diasporic sources, historical evolution, cultural grounding, methodology, discourse on and with feminism, enduring and current issues and its relevance and relation to social change.
Not open for credit to students with credit in B/ST 454.

460. Continental African Thought (3)
Prerequisite: Background knowledge of African history, culture or society highly recommended.
Analysis of philosophical, social and religious systems of thought of Africa from antiquity to the present.
Not open for credit to students with credit in B/ST 460.

475. Racism and Sexism: An Analytical Approach (3)
Prerequisite: AFRS 332
An examination of institutions and a study of legislation which has been written and implemented in consequence of racism and sexism in American society. Social theories used to support and reject concepts of racism and sexism will also be presented.
Not open for credit to students with credit in B/ST 475.

490. Special Topics in Africana Studies (3)
Prerequisite: Consent of instructor.
Topics of current interest in Africana Studies selected for intensive development.
May be repeated to a maximum of 6 units with different topics in the same semester. Topics will be announced in the Schedule of Classes. Not open for credit to students with credit in B/ST 490.

495. Research Methods in Africana Studies (3)
Prerequisites: AFRS 110 and 6 units upper division work in Africana Studies. For Department majors.
Prepares students for use of scientific methods in Africana Studies, research theory, research design, sampling, measurement and science techniques. Focuses on instrument construction as well as test reliability and validity.
Letter grade only (A-F). Not open for credit to students with credit in B/ST 495.

498. Ancient Egyptian Ethical Thought (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper division standing.
Critical study of ethical thought of ancient Egypt with due attention to theological, literary and socio-historical context in which it was developed and evolved, including examination of its major ethical texts and comparative analysis with surrounding traditions.
Not open for credit to students with credit in B/ST 498.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Permits individual students to pursue topics of special research interest.
May be repeated to a maximum of 6 units. Not open for credit to students with credit in B/ST 499.
AMERICAN INDIAN STUDIES
College of Liberal Arts

Director: Troy Johnson
Phone: (562) 985-8203

Faculty: Richard Daney (Emeritus), Troy Johnson, Craig Stone, Gabriel Liatista
Academic Advisor: Troy Johnson
Interdisciplinary Degree Advisor: Troy Johnson
Department Secretary: Espe Contreras

Students desiring information should contact the department office for referral or contact any of the faculty advisors.

Career Possibilities
American Indian Affairs • Social Scientist • Archivist, Social Worker • Journalist • Counselor • Teacher • Public Relations Consultant • Community Organizer • School Administrator • Linguist • Law Paralegal Officer • Probation Officer • Editor • Writer • Urban/Regional Planner • Public Policy Administrator • Foreign Policy Officer • Researcher (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
American Indian Studies is an interdisciplinary study of the American Indian. The American Indian Studies program options are designed to provide students with the various fields of knowledge of American Indian Studies with opportunities for emphasis on particular topical, cultural and geographical interests. It offers a broad liberal education focusing on American Indian culture, traditions, and social issues.

The courses in the program offer two distinct directions: (1) classes that contain course content solely directed toward American Indian culture in the North Western Hemisphere; and (2) courses that contain sections or units on American Indians that have content relevant to understanding the American Indian experience.

American Indian Studies is governed by a committee of faculty representing a variety of schools and departments throughout the University.

Students may pursue a program in American Indian Studies through a minor, a certificate, a concentration in American Indian Studies within the Liberal Studies Degree Program, or an individually-designed undergraduate special major program under the Interdisciplinary Studies Office.

Undergraduate Programs

Interdisciplinary Studies for American Indian Studies

Bachelor of Arts (code IDSCBA01)

Master of Arts (code IDSCMA01)

The Interdisciplinary Studies Program at CSULB allows students to design unique courses of study leading to a Bachelor's or Master's degree. Students wishing to pursue a self-designed Bachelor of Arts degree with a focus on American Indian Studies should call 562-985-2426 for advisement. Students interested in a Master of Arts degree should call 562-985-4128 to contact an advisor.

Applications for the Interdisciplinary Studies Major are reviewed by the Director of the Interdisciplinary Studies Program and approvals are granted on a case-by-case basis.

For assistance, contact the American Indian Studies Interdisciplinary Degree Advisor, Dr. Troy Johnson in FO3-329. For an appointment, call 562-985-8703.

Certificate in American Indian Studies (code AIS_CT01)

Students pursuing any approved degree or credential program of the University may at the same time earn a Certificate in American Indian Studies. Courses taken to meet the requirements may also simultaneously be used, where applicable, to meet General Education requirements or the degree or credential requirements of cooperating departments. Certification of successful completion of requirements will be issued upon the recommendation of the American Indian Studies Program Director.

Requirements
1. A Bachelor's degree with a major in a traditional discipline. (Certificate requirements may be completed prior to the completion of B.A. requirement).
2. Submission of all college/university transcripts to the academic advising coordinator, who will work with the student to develop a well-integrated program of studies. Interested students are strongly encouraged to meet with the academic advising coordinator after having completed the lower division core courses.
3. A minimum of 24 units, distributed as follows:

Required Core Courses

Lower Division Core Courses (9 units) from: AIS 101, 105, 106, 200, 205, 215.
Upper Division Core Courses (15 units) from: AIS 300, 315, 320, 335, 340, 400, 420, 485, 490, 497, 499.

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Minor in American Indian Studies (code AIS_UM01)

Requirements: A minimum of 21 units.

Required Core Courses

Lower Division (9 units) from: AIS 101, 105, 106, 200, 208, 215.
Upper Division (12 units) from: AIS 300, 319, 320, 335, 340, 400, 420, 485, 490, 497, 499.

Courses (AIS)

LOWER DIVISION

101. Introduction to the Study of Native American People (3)
Corequisite/Prerequisite: Any GE Foundation course.
Examine history, culture, religion, art and societies of American Indian. Introduction to historical aspects of Native American experience and discuss these aspects of Native life as applied to contemporary American Indian issues.
Letter grade only (A-F).

102. Aztec Language and Culture (3)
Aztec Language and Culture
Beginning the study of Nahua (Aztec). Practice in song, grammar, reading, performance, pronunciation, writing. Comparison of Classic Aztec and Modern Nahua texts and arts. Cultural focus on history and social culture.

105. American Indian History - Pre 1871 (3)
Corequisite/Prerequisite: One course from GE category A1.
Survey of histories and culture of American Indian peoples in North America from precontact to 1871 and analysis of political, cultural, legal, and military relationships that developed between American Indians and foreign nations.
Not open for credit to students with credit in AIS 100.

106. American Indian History - Post 1871 (3)
Corequisite/Prerequisite: One course from GE category A1.
Survey of histories and cultures of American Indian peoples in North America from 1871 to present.
Not open for credit to students with credit in AIS 101.

200. Contemporary Issues in American Indian Studies (3)
Analysis of major issues in contemporary American Indian affairs, politics, art, philosophy, education, reservations life, economics, government relations, Indian organizations, Indian-white relations, legal issues, land rights, media issues, Indian activist movements, and community concerns.

208. California Indian History (3)
Study of relationship between Indian people and various European powers that influenced the settlement of the State of California. Areas to be explored include: Indigenous people of California, Spanish invasion of 1769, Mexican secularization in 1834, and subjugation by U.S. in 1846.
Letter grade only (A-F).

215. U.S. Diversity and the Ethnic Experience (3)
Prerequisites: Open only to Integrated Teacher Education Program students.
Survey of American Indian, African American, Latino American, and Asian American; in American society from the colonial era to present. Special attention to the formation and transformation of each ethnic group and their roles in the development of the United States.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students must meet formal prerequisites and/or competency equivalent for advanced study.

300. American Indians in Cinema (3)
Examines the creation of stereotypical and positive images of Americans in cinema utilizing silent cinema through contemporary eras. Discusses contemporary images created from American Indian perspective that offer different images of American Indians in society.
Class content will vary dependent on films available for instruction.
Letter grade only (A-F).

315. Contemporary Indigenous Peoples of Aztlán and Latin America (3)
Same class as CHLS 315.

319. The Ethnographic Experience in the U.S. (3)
Prerequisite: Completion of GE Foundation requirements.
Examination of dynamics of development of our multicultural society, emphasizing study of the four distinct ethnic strands of American society (Asian American, Black American, Mexican American, and American Indian) and their role in maintenance of cultural diversity in the United States.
Same course as ASAM 319, AFRS 319, CHLS 319, WSSS 319. Not open for credit to students with credit in AFRS 319, ASAM 319, CHLS 319, WST 319, WSSS 319. (Lecture/Discussion)

320. American Indian Art and Material Culture (3)
Survey of North American Indian art; emphasis on art forms of the U.S., Alaska, and Canada. Traditional and contemporary art and artists will be explored, focusing on aesthetic, theoretical, historical, religious, and philosophic aspects as they relate to American Indian culture.

335. American Indian Philosophies (3)
Detailed examination of American Indian tribal cultures and worldviews. Comparison of tribal philosophy and beliefs with that of western society. Special emphasis placed on traditional philosophical traditions as practiced in the cultural regions of North America and the sub-Arctic.
Letter grade only (A-F).

340. American Indian Literature (3)
Prerequisites: Completion of GE Foundation requirements.
Analysis of the written and oral literature traditions developed by American Indians. Range of works studied: oral history, tales, myths, song, prayer, poetry, short story, and novel.
Same course as ENGL 340. Not open for credit to students with credit in ENGL 340.

400. Advanced Historiography of American Indian People (3)
Introduction to historical writings relating to American Indians. Analyze the attitudes, assumptions, and evidence that have been used to portray American Indian people and the settling of America. Provides a foundation for understanding of how history has been shaped and will advance research skills.
Letter grade only (A-F).
420. American Indian Traditional Material Culture, Arts and Crafts (3)
Prerequisites: ANS 320, or consent of instructor.
Techniques, materials, concepts and processes in the creation of American Indian traditional arts and crafts. Selected artistic projects in the creation of tribal arts.
(Lecture-activity 6 hours.)

485. Federal Indian Law (3)
Designed to provide an in-depth study of legal relationship between the United States, Indian people, and Indian Nations. Legal development will begin with first contact between Indian people and English colonists and continue to the present time.
Letter grade only (A-F).

490. Special Topics in American Indian Studios (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in American Indian studies selected for intensive development.
May be repeated to a maximum of 6 units. Topics will be announced in the Schedule of Classes.

497. Fieldwork in American Indian Studies (1-3)
Prerequisites: Upper division standing, consent of Instructor.
Supervised experience relevant to specific aspects of American Indian community in off-campus setting. Project must be related to student's major or certificate program. Regular meeting with faculty supervisor and written reports required.
May be repeated to a maximum of 6 units.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed Studies to permit individual students to pursue topics of special interest.
May be repeated to a maximum of 6 units.
AMERICAN STUDIES
College of Liberal Arts

Director: Britt Mizelle
Department Office: Faculty Offices 2 (FO2), Room 109
Telephone/FAX: (562) 985-4424 / (562) 985-5431
Website: http://www.csulb.edu/campus/departments/americans/courses/americanstudies

Affiliated Faculty: Elyse M. Blankley (English/Women's, Gender, and Sexuality Studies), Angela Bowen (Women's, Gender, and Sexuality Studies), Timothy Caron (English), Patricia A. Cleary (History), Shelby D. Downey (Communication Studies), Linda N. Espana-Miram (Asian and Asian American Studies), J. Williams Gibson (Sociology), Paul Gilmore (English), George Hart (English), Ann Johnson (Communication Studies), Troy Johnson (American Indian Studies), Masatani Karonga (Black Studies), Karen Kleinfield (Art), Lileem Luhr (History), Britt Mizelle (History), Charles Nobbs (Political Science), Daniel J. O'Connor (Liberal Studies), Carlos R. Pizar (Religious Studies), Karen Raasumser (Communication Studies), Maythee Rojas (Women's, Gender, and Sexuality Studies), Max Rosenvinge (Philosophy), Anna Sandiko (Chicano and Latino Studies), Sarah Schrank (History), Nancy Sheehan (English/Liberal Studies), Craig R. Smith (Communication Studies), Jon R. Stone (Religious Studies), Dean S. Tolle (Asian and American Studies), John N. Tsujioka (Asian American Studies), Julie Van Camp (Philosophy), Frederick Wegener (English), Hugh Willard (History), Alison Wynne (Kinesiology and Physical Education)

Career Possibilities
Advertising • Entertainment • Journalism • Management • Marketing • Mass Media (film, radio, television) • Politics • Professional Writing and Editing (creative or technical) • Public Relations • Publishing • Historian • Administrator in Historic and Cultural Preservation • Teacher • Museum Curator • Multimedia Specialist • Preservationist • Environmental Law • College Instructor • Environmental Public History Review Specialist • Human Resources Manager • Systems Analyst • Insurance Broker (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Bachelor of Arts in American Studies (code AMSTBA01) (120 units)
American Studies is an interdisciplinary study of American culture. The American Studies Program offers a major leading to the bachelor's degree and a minor. The program also offers a variety of general education and interdisciplinary courses. Most students majoring or minoring in American Studies are interested in both (1) studying American culture as a whole from several disciplinary perspectives and (2) studying in depth a problem or theme according to individual choice. Reflecting these two interests, the major consists of a 5-course core sequence and a 7-course elective pattern that centers on one thematic problem.

The American Studies Program is governed by a committee of faculty from various departments and schools who also serve as advisors. Students majoring in American Studies confer with the program director to plan their programs, which are recorded on official advising forms.

In addition to providing a broad liberal education focusing on American culture, traditions and institutions, the major in American Studies offers a useful background for careers in law, journalism, public service, government, business and teaching. The program also provides the foundation for graduate work in American Studies and related fields.

In preparation for the upper division major in American Studies, students are expected to have completed lower division courses appropriate as background to the study of American culture. Students planning to major in American Studies should consult the program director early in their academic careers for general education and preparatory course recommendations and for teaching credential information.

Requirements
A minimum of 36 units distributed as follows:
Core courses (21 units): AMST 300, 301, 496 plus 6 additional units in AMST-designated courses. Students also need to take 3 units in American Cultural History (chosen from HIST 477A and 477B) and 3 units in American Literature (chosen from ENGL 375 and 372).
Elective pattern (15 units): Students choose a five-course elective pattern in consultation with the program advisor in one of the following areas of concentration: (A) American Institutions, Ideas, and Experiences, (B) Diversity and Difference, (C) American Culture, Media, and Consumerism, (D) Public Culture and Civic Engagement, (E) Designated Area of Concentration. No more than two courses in this elective pattern can come from any one academic department.

Minor in American Studies (code AMSTUM01)
Minimum of 18 units consisting of AMST 300, AMST350, HIST477A or HIST477B, and 9 more units chosen in consultation with the faculty advisor.

Courses (AMST)

Foundation Courses must be completed prior to taking any upper division course except language courses where students must meet formal prerequisites and/or competency equivalent for advanced study.

LOWER DIVISION

200. Explorations in American Popular Culture (3)
Prerequisites: Completion of GE Foundation requirements. Examines broad terrain of American popular culture from multiple disciplinary perspectives, interrogating both the form and content of cultural production and reception in the past and present. May be repeated to a maximum of 6 units with different topics in different semesters.
UPPER DIVISION

360. Introduction to American Studies (3)
Interdisciplinary approaches to study of American civilization from colonial period through twentieth century. Significant issues and problems in American life examined from perspectives of several disciplines.

350. California Culture (3)
Prerequisites: GE Foundation; upper division status.
Interdisciplinary examination of the culture of California. Emphasis on how California's history, politics, environment, social movements, art, and literature produce a contested and always changing culture.

351. Celebrity in American Culture (3)
Prerequisites: GE Foundation; Upper-division status.
Interdisciplinary examination of the changing meanings of fame in American society, addressing the production, consumption, and cultural work of celebrity.

360. Explorations in American Popular Culture (3)
Prerequisites: GE Foundation; Upper-division status.
Examines broad terrain of American popular culture from multiple disciplinary perspectives, interrogating both the form and content of cultural production and reception in the past and present. Not open for credit to students with credit in AMST 200.

421. Animals in American Culture (3)
Prerequisites: GE Foundation; Upper-division status.
Interdisciplinary examination of the role of non-human animals in making cultural meaning. Traces the many ways in which animals, not just humans, have shaped American history and culture.

498. Senior Seminar in American Studies
Prerequisites: Completion of AMST 200 and 18 units of upper-division work in American Studies or affiliated fields.
Capstone research course for American Studies majors.
Lottor grade only (A-F).
ANTHROPOLOGY
College of Liberal Arts

Department Chair: Barbara LeMister
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Faculty: Pamela Bunte (Emerita), Keith Dixon (Emeritus), Robert Harrington (Emeritus), John Howell, Alexandra Jaffe, Wendy Klein, Daniel O. Larson, Barbara LaMastor, Carl P. Lipo, Ron Loewe, Hector Noff, Karen Quintanilla, Stuven Roussos-Schindler, R. Scott Wilson, George M. Scott, Marcus Young Owl

Advisors:
Undergraduate: Marcus Young Owl
Graduate: Ron Loewe

Administrative Coordinator: Donna Reese

Career Possibilities
Archaeologist • Anthropologist • Art Historian • Curator • Curator • Designer • Ethnographer • Ethnologist • Foreign Service Officer • Geographic Information System (GIS) Analyst • History of Art • History of Science • Human Resource Manager • Immigration Inspector • Librarian • Linguist • Museum Administrator • Museum Curator • Museum Education Coordinator • Museum Registrar • Professional Guide • Professional Tour Guide • Professor • Researcher • Social Science Researcher • Teacher • Travel Agent • Urban Planner • Urban Planner • Veterinary Scientist • Wildlife Management

Introduction
Anthropology is the systematic study of our own species in our biological, social, and cultural aspects. Anthropologists study the full range of human experience in both the past and present. The breadth of anthropological studies gives students a unique perspective to understand other societies and their own. The programs offered by the Department of Anthropology are designed to enrich the personal and professional lives of our students.

The undergraduate major in Anthropology is designed to provide students with knowledge of the various fields of Anthropology and with opportunities for emphasis in particular topics and geographical interests. Students will find that Anthropology provides a useful perspective that has many applications in daily social interaction. The Anthropology minor provides a strong liberal arts background that can contribute to success in many fields, such as teaching, public service, or business. Anthropology majors intending to pursue careers in those fields are urged to consider minorin in fields which provide appropriate entry-level skills, such as the Minor in Business Economics or in Public Policy. The major also prepares students for advanced studies in Anthropology. The undergraduate minor in Anthropology is recommended for students preparing for careers which will require practical knowledge of different cultural backgrounds. These include teaching, international business and engineering, foreign service, and public and social services within our own multicultural society.

The Department of Anthropology also offers a graduate program leading to the Master of Arts degree. The graduate program is designed to meet the needs of students who are: 1) seeking to expand their knowledge and increase their competence in Anthropology; 2) preparing for further advanced degrees; and 3) preparing for a career in Applied anthropology. Graduate students are responsible for obeying the general requirements for the M.A. degree as stated in this Catalog. It is also recommended that prospective students consult with the Graduate Advisor at their earliest opportunity.

Undergraduate Programs

Bachelor of Arts (code ANTHBA01) (120 units)

Lower Division: ANTH 110, 120, 140, 170 and 202.
Upper Division: A total of 33 units. Required Core Courses (15 units): ANTH 313, 314, 491, 435, 431 or 475.
In consultation with the Undergraduate Advisor, an additional 18 units will be selected from the courses listed below. The major allows students to be generalists picking upper division electives from differing subfields, or to specialize in one subfield. Courses are grouped by topic/subfield as a guide for students.


Biological Anthropology: ANTH 315, 316, 319, 393, 402, 434, 436, 437, 439A, 439B


Linguistic Anthropology: ANTH 412J, 413, 421, 475

Students may apply a maximum of 2 Anthropology Capstone courses to the major. Students may apply Anthropology Human Diversity classes to the major.

Students may take a total of 6 units of ANTH 490 and, with approval of the undergraduate advisor and sponsoring faculty members, up to 6 units of ANTH 496, 498, or 499.

Minor in Anthropology (code ANTHUM01)

A minimum of 21 units in a program approved by the major advisor, as follows:

Lower Division Required: ANTH 120, 140, 170 and 110.
Upper Division Electives: 9 units of anthropology courses selected in consultation with the major advisor to meet the specific needs of the student.

Interdisciplinary Minor in Crosscultural Language and Academic Development Studies (code COEDUM01)

The minor comprises courses that integrate studies of culture, language, learning, and the academic environment, and human development. It is an interdisciplinary program designed to support career objectives related to public education in Crosscultural Language and Academic Development. The minor consists of a minimum of 18 units selected with an advisor. Courses in the department of the student’s major may not be used.

1. One course from each of the following areas (12 units):
   Culture: ANTH 421J, LING 425 or EDP 432/EDEL 430
   Language: EDS 454 or LING/CD 329

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Option in Applied Anthropology (code ANTHMA02)

The Department of Anthropology offers graduate work in applied anthropology leading to a Master of Arts degree in Anthropology. The program produces practitioners who use anthropological knowledge and methods to design, conduct, and evaluate research and action programs. Students with a B.A. in Anthropology, as well as those who can apply their previous training and experience to the practice of anthropology, are welcome to apply. In order to meet the growing demand in California and elsewhere for professionals capable of addressing the complex, global problems of multicultural urban and regional environments, the Applied Anthropology Program emphasizes knowledge of anthropological theory and specialized training for its application across a wide range of global contexts. All graduate students participate in research projects and internships. Within the global context of urban and regional cultural change, the program offers three concentrations: multicultural education, medical/health care, and community organizations. Regional emphasis begins with the languages, cultures, and organizations of southern California and the Southwest and extends globally.

Prerequisites
1. A bachelor's degree in anthropology; or
2. A bachelor's degree with 24 units of upper division courses in anthropology, comparable to those required of anthropology majors at this University; or
3. A B.A. degree in any field and other background appropriate to graduate study in anthropology. Students whose background in anthropology seems inadequate may be required to fulfill specific undergraduate deficiencies before admission to candidacy. Deficiencies will be determined by the departmental graduate advisor after consultation with the student and a review of the student's transcript records.

Advancement to Candidacy
1. Acceptance into the M.A. program by the department;
2. Satisfaction of the general University requirements for advancement to candidacy (including fulfilling the GWAR);
3. Approval of the candidate's graduate program by the departmental graduate advisor;
4. The candidate must have taken ANTH 501, 510, and either 560 or 561 for a total of 9 core units.

Requirements
1. A minimum of 33 units of 400-level upper division and graduate courses, of which 21 units must be at the 500-600 level in a program approved by the Graduate Advisor. These 33 units must include the following courses: ANTH 501, 510 and 560 or 561; or
2. Up to 6 units of course work outside the Department of Anthropology may be included in the 33 unit total;
3. Competence in appropriate research skills. These may include: familiarity with computer languages and use of computers, or statistical training and facility, or a reading knowledge of a foreign language;
4. Either A) a Comprehensive Examination, or B) a M.A. Thesis.
202. Quantitative Methods in Anthropology (4)

Designed to strengthen quantitative skills; emphasis placed on analysis of large datasets, computer graphics, research design, and application of several statistical methods and software programs; Databases used in this class have a multicultural base.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

301. Principles of Archaeology (4)

Prerequisite: ANTH 140 and completion of GE Foundation requirements.

Explanation of the techniques, methods, and goals of archaeological research. Study of ceramics, lithics and other parts of the archaeological record. Examination of issues in sampling, survey, excavation and dating of archaeological materials. General problems encountered in explaining archaeological phenomena.

305. Radical Social Analysis (3)

Prerequisite: Completion of GE Foundation requirements, one or more Explorations courses and upper division standing.

Radical examination of society and culture, focusing on classic Marxist texts as well as current critical theory and analysis. Special emphasis on critiques of capitalism and the effects of global inequality on humanity.

307. Modernization in Global Perspective (3)

Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.

Exploration of psychological and material problems in modern society (both western and Third World) due to accelerating change beginning with advance of technology, rise of capitalism, abandonment of "old values," increasing complexity of bureaucracy, and lowering of social barriers.

311. Human Adventure (3)

Prerequisite: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.

An exploration of the evolution of key features of humanity from our origins through the present and into the future.

313. World Prehistory (3)

Prerequisite: Completion of GE Foundation requirements.

The origin of human beings and their cultures; the development of agriculture, the growth of city life, and the rise of civilization; a survey of world-wide prehistory from the Old Stone Age to the Iron Age.

314. Global Ethnography (3)

Prerequisites: Completion of GE Foundation requirements.

Recent and contemporary cultures around the world; a comparative survey of their ecological adaptations, social institutions, technology, subsistence strategies, degrees of complexity, and patterns of change.

315. Human Variation (3)

Prerequisite: Completion of GE Foundation requirement.

Biological variation and differences in modern humans; Biological concepts of race and subspecies. Biological adaptations. Racism and genocide. Race as a race concept and the social meaning of this concept. Biology of several American ethnic groups.

318. Human Genetics (3)

Prerequisites: ANTH 110 or equivalent BIOL course, a quantitative course.

Genetic background for normal and abnormal development; population differences; human reproduction, pregnancy, prenatal diagnosis and birth defects; introduction to population and evolutionary genetics; application to social, moral, legal and ethical problems and to genetic counseling.

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319. Human Growth and Development (3)
Prerequisites: DIOL 205 or 207.
Analysis of the sequence of events in the development of people from conception to death; organ development; rapid and retarded growth patterns; the processes of aging and death from a broad ethnic and ecological perspective.

321. North American Indians (3)
Comparative study of traditional Native American societies, social organization, belief systems and religions, crafts and adaptation to varied environments; cultural changes in response to European contacts.

322. California Indians (3)
Survey of native Californian groups; discussion of the diversity of aboriginal culture prior to western contact as background for analysis of the impact of Europeans; problems of intercultural relations; and the current status of native Californians.

323. Peoples of Mexico and Central America (3)
Survey of present-day peoples of Mexico and Central America; indigenous and mestizo cultures and their heritage; examination of recent change.

324. Peoples of South America (3)
Survey of the present day peoples of South America; tribal Indians, peasant communities, village life, the emerging middle class, and other social groups; examination of the Indian, European, and African heritage and present day cultural and social changes.

329. Cultural Diversity in California (3)
Prerequisites: Completion of GE Foundation requirements. Examination of current cultural diversity in California, including ethnicity, nationality, class, gender, religion, and region; and the impact of this diversity on public institutions will be covered. Letter grade only (A-F).

332. Chinese Culture and Society (3)
Anthropological perspectives on evolution, socialism, and institutional change in China, ethnic diversity, family and kinship patterns, politics, economy, international relations, and religion in premodern and modern times.

333. Cultures and Societies of Southeast Asia (3)
Comparison of ecological, social, and symbolic systems of mainland and island Southeast Asia. Emphasis of traditional cultures of agricultural and small-scale societies. Effects of colonialism and modernization are also covered.

335. Japanese Culture and Society (3)
Cultural and social institutions; kinship, family structure, religion, law, politics and economy from traditional to modern times.

345. Ancient Civilizations of Mexico and Central America (3)
Origins and growth of the Aztec, Maya and other civilizations of Mexico and Central America.

347. Prehistoric Cultures of North America (3)
Archaeological evidence of origin and growth of the native American cultures north of Mexico; regional cultures and broad continental patterns of development.

349. The Prehistory of California and the Southwestern United States (3)
Development of the native cultures of California and American Southwest from the earliest human occupation to the historic period.

351. Sex Roles and Culture (3)
Interaction of biological, cultural and historical factors on male female roles and status in traditional and contemporary cultures and societies.

355. Health and Healing (3)
Prerequisites: Completion of GE Foundation requirements. Cultural perspective of health and health care delivery; coverage of diverse cultures in the United States and abroad; emphasis on increasing personal awareness through exposure to diverse perceptions of illness and treatment.

363. Natural History of Primates (3)
Prerequisites: ANTH 110.
Relationship of primates to other mammals; adaptation of cerebral mammalian, functional and evolutionary aspects of primate anatomy and physiology; effects of size, primate ecology, survey of the Order Primates: Prosimii, Tarsoids, New World and Old World Monkeys, Hominoids.

401. Foundations of Anthropology (3) F
Prerequisites: ANTH 313 and ANTH 334 with grade of "C" or better, or consent of instructor.
Introduction to history of anthropological theory from inception to current approaches; frames theories in the social context in which they emerged.
Letter grade only (A-F).

402. Evolutionary Theory (3)
Prerequisites: Upper division standing and completion of ANTH 110 with a grade of "C" or better.
Development of evolutionary thought and its impact on Anthropology; origins of physical anthropology; Mendelian genetics, transmissionism, population genetics, Hardy-Weinberg equilibrium, non-Darwinian evolution, and modern synthesis; scientific method, the application of evolutionary theory to human origins, primate biology, behavioral biology. Current theoretical perspectives.
Letter grade only (A-F).

403. Evolutionary Anthropology (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and completion of any lower division course in Anthropology with a grade of "C" or better.
Overview of the application of evolutionary theory to human behavior and culture. Fundamentals of Darwinian evolution, cultural transmission, behavioral ecology, and complex social systems. Applications in ethnology, archeology, biological anthropology and historical linguistics with relevance to issues facing modern societies.
May be repeated to a maximum of 6 units in different semesters. Letter grade only (A-F).

4121. Culture and Communication (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper division standing.
Culture and its influence on the communication process; practical application to intercultural and multicultural situations: cultural patterns in America and abroad and their effect on verbal and nonverbal communicative behavior; cultural dimensions of ethnocentrism, stereotypes, and prejudices and their effect on communication; multicultural approaches to human interaction.

413. Language and Culture (3)
Relation of language to social and cultural practices and processes; issues of meaning, identity and power within and across cultures. Same course asLING 413.

414. Anthropology of Religion (3)
Prerequisites: ANTH 120 and upper-division graduate standing or consent of instructor.
An anthropological examination of religious behavior and beliefs, which will focus on these phenomena in their sociocultural and adaptive contexts. Using the cross-cultural and cultural evolutionary approach, hunter-gatherer religions through civilized ones will be covered.
Letter grade only (A-F).

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415/515. Economic Anthropology (3)
Comparative analysis of capitalism and industrialization; relation of work and leisure; urbanization; economic development; comparative economic systems; implications for a multi-national world.

416/516. Urban Anthropology (3)
Comparative analysis of development and role of urban centers in ancient and modern cultures; interrelationships of urban and rural populations; patterns of similarity and difference in urbanism of contrasting cultures; implications for a multi-national world.

417/517. Applied Anthropology (3)
Prerequisites: ANTH 120 and upper division standing or graduate standing or consent of instructor.
Brief orientation to applied anthropology, its history and ethics; policy and applied anthropology domains (needs assessment, program evaluation, social impact assessment: environment, advocacy); applied research methods; student proposals for internship research.

419/519. Encounters and Identities (3)
Prerequisite: Graduate and advanced undergraduate students only.
Examination of how cultures interact with the concept of identity; concentrates on theories and practices of identity and the practice of politics from an anthropological perspective.

421. Education Across Cultures (3)
Same course as LING 425.

422/522. The Anthropology of Gender (3)
Prerequisites: Upper division standing and ANTH 351 or consent of instructor.
Examines anthropological perspectives on gender and how these perspectives have challenged and transformed anthropology and feminism; class will locate gender relations in the production of anthropological knowledge, in colonial and postcolonial social fields, and in the movement of global capitalism.
Letter grade only (A-F).

427/527. Global East Asia (3)
Prerequisites: Graduate and advanced undergraduate students.
Students will examine how socio-cultural formations in an East Asian context articulate with global flows of capital, people, and ideas.
Letter grade only (A-F).

428/528. Historical Ethnography (3)
Prerequisite: Consent of instructor.
Developing and employing a specialization of historical ethnography in anthropology, combining archival and historical approaches to methodological and theoretical issues in historical ethnography.
Letter grade only (A-F).

434. Primate Evolution (3)
Prerequisite: ANTH 110. Recommended: ANTH 363, upper division physical anthropology, biology, or anatomy/physiology course.
Primate evolutionary biology, minus the sub-family hominidae; fossil record and analysis of fossils (through the use of fossil casts); detailed cranial anatomy (particularly teeth) will be examined in the laboratory section; literature on primate evolution will be surveyed.
(Lecture 2 hours, Lab 3 hours)

435. Human Evolution (3)
Prerequisites: ANTH 110
Fossil and molecular evidence for human evolution as a consideration of the importance of cultural factors.
Not open for credit to students with credit in ANTH 430.

436. Medical Anthropology (3)
Prerequisites: ANTH 353 recommended.
Interaction of cultural, biological and environmental elements in human response to disease; emphasis on an ecosystem approach with evolutionary and comparative perspectives.

437. Primate Ecology (3)
Prerequisite: ANTH 110 or a comparable biology course with a grade of "C" or better, ANTH 202 and ANTH 363 recommended.
Survey of interaction of primates with their environment. Focus on physiological ecology, nutritional ecology, chemical ecology, population ecology and behavioral ecology of primate species.
Letter grade only (A-F). (Lecture 3 hours)

440. Ethnographic Field School (3-6)
Prerequisite: Consent of Instructor.
Experiential course gives opportunity to apply standard ethnographic methods to study, observe, and learn about a non-U.S. culture. Analysis of methodology and data collection will occur throughout the course. Location, topics and activities will vary.
Letter grade only (A-F).

444/544. Transnational Migrants (3)
Prerequisites: ANTH 120 and upper division graduate standing or consent of the instructor.
Anthropological examination of the lives of immigrants and refugees. Explores the way studies of migration challenge our understanding of the local context of globalization and mass migration. Focus on theories of culture, ethnicity, and identity as well as theories of incorporation, adaptation and nativism and the relevance of applied anthropology through research and advocacy.
Letter grade only (A-F).

445/545. Human Environment Interaction In Prehistory and History (3)
Prerequisites: ANTH 140 and ANTH 313 or consent of instructor.
Explores archaeological and paleoenvironmental evidence of how the natural environment has affected human biological and cultural evolution and how human activities have affected the environment.

450. Archaeological Field Research (1-10)
Prerequisite: Consent of Instructor.
Introduction to field acquisition of archaeological data through remote sensing, geophysics, survey, and excavation; instructional emphasis is on recovery, recording techniques, and the management of field projects; locations will vary and may be offered on Saturdays.
May be repeated to a maximum of 10 units in different semesters.

451/551. Archaeological Artifacts Analysis (4)
Prerequisite: ANTH 140 or equivalent.
Study of the products of human activity; nature of measurement and observation within the archaeological record; Explanations of artifact variability; study of lithics, ceramics, and other types of archaeological materials. Practical experience in the study of artifacts, sampling, errors.
Letter grade only (A-F). (Loc 3 hrs, Lab 2 hrs)

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453. Archaeological Field Research Design (4)  
Prerequisites: Consent of instructor and ANTH 301 or equivalent.  
The nature of the archaeological record, research design,  
techniques of archaeological data collection and field research  
employing data sources and modern techniques. Practical  
experience in the use of mapping instruments, map interpretation,  
geophysics, surface survey, sampling designs, remote sensing  
photography.  
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)  

454. Culture and Aging (3)  
Cultural perspectives on aging and the aged in America and  
everywhere. Attention to insider views from specific societies and to  
comparisons of aging concerns in diverse settings.  

455,555. Archaeological Method and Theory I (4)  
Prerequisites: Consent of instructor and ANTH 301.  
Examination of theoretical construct in the analysis of  
archaeological data. Development and construction of a  
technique to explain the data and to discuss various historical  
phenomena. Key debates in archaeological literature about the  
nature of theory, knowledge, theory and units.  
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)  

456,556. Archaeological Method and Theory II (4)  
Prerequisites: Consent of instructor and ANTH 301.  
Analysis of conceptual frameworks employed by archaeologists in  
obtaining explanation in the three major areas of culture history,  
cultural reconstruction, and expository paleohistory. Introduction  
to evolutionary theory as used in archaeology. Debates about the  
nature of evolutionary explanations.  
Letter grade only (A-F).  

458. Ethnographic Methods (4)  
Prerequisites: ANTH 110, 120, 140, and 170 or consent of instructor.  
Introduction to purposes of cultural anthropology fieldwork,  
methodology used to collect ethnographic data, and ways of  
analyzing and reporting data collected; focus on identifying and  
defining research problems and populations, and ethical issues that  
arise when conducting research.  

464/564. Quantitative Methods in Anthropological Research (4)  
Prerequisites: ANTH 202 and consent of instructor:  
Advanced statistical and analytical methods involved in  
anthropological research. Advanced statistical principles and  
techniques include principal components, PCA, MANOVA, MCA,  
factor analysis, bootstrapping, and sampling designs in the  
anthropological research.  
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)  

471,571. Prehistory of Eastern North America (3)  
Prerequisites: ANTH 140 or equivalent.  
Ecological and evolutionary account of prehistoric cultural  
developments in Eastern North America from the Paleoindian  
period to the collapse of the Algonquian cultural systems.  
Letter grade only (A-F).  

472/572. Archaeology of the Desert West (3)  
Prerequisites: ANTH 140 or 301 or 313.  
Overview of the archaeology of the Desert West.  
Letter grade only (A-F).  

473/573. Archaeology of California (3)  
Prerequisites: ANTH 140 or 301 or 313.  
Overview of the archaeology of California, from initial human  
colonization through European contact. Emphasis on environmental  
change, human-environment interactions, the development of social  
complexity, and the consequences of American colonization.  
Letter grade only (A-F).  

475. Language and Gender in Cross-Cultural Perspective (3)  
Analysis of men's and women's communication in their social and  
cultural context; role of gender in interpreting conventional  
interactions in the U.S. and elsewhere; acquisition of gender  
differences; cultural dimensions of perceptions and stereotypes and  
their effect on communication.  
Note: same course as LING 475, WGS 476.  

478. Anthropology and Film (3)  
Prerequisite: One lower division anthropology course or consent of  
instructor.  
This seminar critically analyzes movies that portray anthropological  
aurors, as presented in ethnographic and commercial films. Representations  
of anthropologists, anthropological theories and methods, and  
populations and concerns of anthropological interest are contrasted with  
early works of scholarship published on the same issues.  
Letter grade only (A-F) for Majors/Minors.  

480A. Osteology I (3)  
Introduction to skeletal anatomy, measurement and analysis of  
osteological collections, applied anthropometrics and morphometrics.  
(Lecture 2 hours, Lab 5 hours)  

480B. Osteology II (3)  
Prerequisites: ANTH 480A or consent of instructor  
Osteological analysis of skeletal remains; detection of pathological  
conditions on archaeological populations; methods of dietary analysis;  
skeletal analysis from archaeological sites.  
(Lecture 2 hours, Lab 3 hours)  

481,551. Faunal Analysis (4)  
Prerequisites: ANTH 140 or equivalent, consent of instructor.  
An introduction to the analysis of animal bones from archaeological  
sites; exploration of the theoretical and methodological issues  
that are fundamental to the study of faunal remains and modern  
zooarchaeology.  
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)  

485. Physical Science Techniques in Archaeology (4)  
Prerequisites: ANTH 140 and one other archaeology course or  
consent of instructor.  
Techniques of physics and chemistry in archaeology; use of  
laboratory equipment, including analytical balances, drying ovens,  
furnaces, and other sample preparation techniques; use of chemical  
characterization techniques, including scanning electron microscopy  
and inductively-coupled mass spectrometry.  
Letter grade only (A-F).  

486,586. Geoaanthropology (3)  
Prerequisites: ANTH 301 or consent of instructor.  
Identification, analysis, and interpretation of sediments and soils  
associated with archaeological remains. Laboratory work with  
sediment description and chemical analysis; field trips and student  
projects focus on archaeological applications of these subjects.  
(3 hours seminar; 3 hours activity) Letter grade only (A-F)  

487,587. Cultural Resource Management (3)  
Prerequisite: ANTH 301  
Introduction to the practices of public archaeology in the United  
States; historical and legal background; federal, state, and local  
programs; archaeology and Native Americans; contract archaeology;  
survey, evaluation, and mitigation projects; professional employment  
in U.S. cultural resource management.  
Letter grade only (A-F).
488. Advanced Methods in Near Surface Remote Sensing (4)
Prerequisites: ANTH 453 and consent of instructor.
Advanced exploration of the use of near surface geophysical techniques in the study of archaeological deposits; theory and methodology in the use of remote sensing in archaeology; development of research designs; practical considerations when using geophysical equipment in archaeological research.
Letter grade only (A-F).

489. Advanced Archaeological Analyses: Research Practicum (3)
Prerequisites: One of the following: ANTH 450, 451, 453, 484, 481, 485, 458, or 483.
Advanced study of the archaeological record using multiple laboratory and field research techniques. Research leading to group and individual projects. Collaborative and hands-on application of analytic and quantitative analyses. Preparation of results for publication and presentations.
Letter grade only (A-F). (5 hour activity)

490. Special Topics in Anthropology (3)
Topics of current interest in anthropology selected for intensive development.
May be repeated to a maximum of 6 units. Topics will be announced in the Schedule of Classes.

490. Internship (3)
Prerequisites: Upper division standing, approval of faculty mentor.
Supervised internship in an area of anthropology within or outside the University; field experience of 90 hours in which the student gains practical experience in an area of anthropology.
Letter grade only (A-F).

490. Senior Thesis (1-6)
Prerequisites: Open only to Anthropology major, senior standing, and have approval of a faculty mentor.
Research for and writing of a senior thesis under the direction and guidance of an Anthropology Department faculty mentor.
Letter grade only (A-F).

490. Guided Studies in Anthropology (1-3)
Prerequisites: Consent of department.
Selected topics in anthropology and preparation of a research report.
May be repeated to a maximum of 6 units.

GRADUATE LEVEL

501. Current Trends in Anthropological Theory (3)
Prerequisites: ANTH 401 or its equivalent, and graduate standing.
Examination of current theories used by leading anthropologists in the areas of our graduate program, i.e.: Applied Anthropology, Linguistic Anthropology, and Archaeology. Investigation of how theories shape problems and analytic techniques, and what makes theory "cutting edge."
Letter grade only (A-F).

503. The Anthropological Perspective (3)
Prerequisite: Graduate standing or consent of instructor.
Through reading and discussion of ethnographies and reports of applied anthropological work, this course reviews the scientific understanding of the process of inquiry and action in the human sciences, leading to the identification of a common core perspective within anthropology.
Letter grade only (A-F).

505. Practicing Anthropology (3)
Prerequisite: Graduate standing or consent of instructor.
Review of practical contributions by anthropologists in non-academic settings; attention to specific skills used by practicing anthropologists, business writing including resumes, contracts, oral presentations using audiovisual aids; internal and external contracting; time management, project management, working across disciplines; ethics.
Letter grade only (A-F).

510. Proseminar (3) F
Prerequisites: Six units of upper division anthropology courses or consent of instructor.
Development of proposal planning, budgeting, and writing skills, particularly in applied anthropology, linguistics, and archaeology; both academic and contract/consulting types of proposals will be covered.
Letter grade only (A-F).

514/414. Anthropology of Religion (3)
Prerequisite: ANTH 120 and upper division/graduate standing or consent of instructor.
Anthropological examination of religious behavior and beliefs, which will focus on these phenomena in their socio-cultural and adaptive contexts using cross-cultural and cultural evolutionary approach, hunter-gatherer religions through civilized ones.
Letter grade only (A-F).

515/415. Economic Anthropology (3)
Compares and contrasts the economies characteristic of hunter-gatherers, horticulturalists, and peasants; investigates the changing relations of tribal and peasant peoples to the developing global economy; and leads at production and marketing strategies within local, regional, and urban settings.
Letter grade only (A-F).

516/416. Urban Anthropology (3)
Comparative analysis of development and role of urban centers in ancient and modern cultures; interrelationships of urban and rural populations; patterns of similarity and difference in urbanism of contrasting cultures; implications for a multi-national world.
Letter grade only (A-F).

517/417. Applied Anthropology (3)
Prerequisites: ANTH 120 and upper division standing or graduate standing or consent of instructor.
Brief orientation to applied anthropology; its history and ethics; policy and applied anthropology domains (needs assessment, program evaluation, social impact assessment, environmental, advocacy); applied research methods; student proposals for internship research.
Letter grade only (A-F).

519/419. Encounters and Identities (3)
Prerequisite: Graduate and advanced undergraduate students only.
Examination of how cultural anthropologists have dealt, theoretically, with the concept of identity; concentrates more on issues than geographic regions, emphasis on recent theoretical developments such as post-modern and post-colonial approaches to the study of contemporary subjectivities.
Letter grade only (A-F).

520/420. Culture, Power and Politics (3)
Prerequisite: ANTH 120 and upper division/graduate standing or consent of the instructor.
Examines from an anthropological perspective how culture shapes the social construction of power and the practice of politics from an anthropological perspective.

522/422. The Anthropology of Gender (3)
Prerequisite: Graduate standing or consent of instructor (ANTH 351 recommended).
Examines anthropological perspectives on gender and how these perspectives have challenged and transformed anthropology and feminism; class will locate gender relations in the production of anthropological knowledge, in colonial and postcolonial social fluids, and in the movement of global capitalism.
Letter grade only (A-F).

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527/427. Global East Asia (3)
Prerequisites: Graduate and advanced undergraduate students.
Students will examine how socio-cultural formations in an East Asian context articulate with global flows of capital, people, and ideas.
Letter grade only (A-F).

528/428. Historical Ethnography (3)
Prerequisite: Graduate status or consent of instructor.
Development of the specialization of historical ethnography in anthropology, combined ethnographic and historical approaches to ethnographic questions, methodological and theoretical issues in historical ethnography.
Letter grade only (A-F).

530. Ethnography of Communication (3)
Prerequisite: Graduate standing.
Study of talk and other forms of communication from an ethnographic perspective. Emphasizes relevant methods and theories. Among the major topics presented from this perspective are language socialization, genres of speaking, intercultural communication, speech styles, strategic uses of language, and literacy.
Letter grade only (A-F). Same course as LING 333. Not open for credit to students with credit in LING 333.

540. Ethnographic Field School (3-6)
Prerequisite: Consent of Instructor.
This experiential course gives students an opportunity to apply standard ethnographic methods to study, observe, and learn about a non-U.S. culture. Analysis of methodology and data collection will occur throughout the course. Location, topics and activities will vary.
Letter grade only (A-F).

544/444. Transnational Migrants (3)
Prerequisites: Graduate standing or consent of the instructor.
Anthropological examination of the lives of immigrants and refugees. Explores the way studies of migration challenge our understanding of the local context of globalisation and transnationalism. Focus on theories of culture, ethnicity, and identity as well as theories of incorporation, adaptation and nativism and the relevance of applied anthropology through research and advocacy.
Letter grade only (A-F).

545/445. Human Environment Interaction in Prehistory and History (3)
Prerequisite: Graduate standing or consent of instructor.
Explores archaeological and paleoenvironmental evidence of how the natural environment has affected human biological and cultural evolution and how human activities have affected the environment.
Letter grade only (A-F).

551/451. Archaeological Artifacts Analyses (4)
Prerequisites: Graduate standing and consent of instructor.
Study of the products of human activity; nature of measurement and observation within the archaeological record. Explanations of artifact variability, study of lithics, ceramics, and other types of archaeological materials. Practical experience in the study of materials, sampling, errors.
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)

553/453. Archaeological Field Research Design (4)
Prerequisites: Graduate standing and consent of instructor.
The nature of the archaeological record, research design, techniques of archaeological data collection and field research employing data sources and modern techniques. Practical experience in the use of mapping instruments, map interpretation, geophysics, surface survey, sampling designs, remote sensing photogrammetry.
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)

555/455. Archaeological Method and Theory I (4)
Prerequisite: Graduate standing and consent of instructor.
Examination of theoretical constructs in the analysis of archaeological data. Development and construction of a metalanguage for the discussion and analysis of historical phenomenon. Key debates in archaeological literature about the nature of theory, knowledge, theory and units.
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)

556/456. Archaeological Method and Theory II (4)
Prerequisite: Graduate standing and consent of instructor.
Analysis of conceptual frameworks employed by archaeologists in obtaining explanation in the three major areas of culture history, cultural reconstruction, and explanatory prehistory. Introduction to evolutionary theory as used in archaeology. Debates about the nature of evolutionary explanations.
Letter grade only (A-F).

560. Ethnographic Research Methods (3)
Prerequisite: Graduate standing or consent of instructor.
A practice-oriented seminar in ethnographic research methodology, emphasizing techniques, methods, and concepts of ethnographic research. The course examines several qualitative, in-depth methods used by anthropologists as well as research design and research ethics.

561. Basic Computer Research Applications in Anthropology (5)
Prerequisite: ANTH 560 or consent of instructor.
Basics of both qualitative and quantitative computer methods, employing currently appropriate software and statistical techniques. Methods covered will be specifically related to research in archaeology and applied anthropology, and the presentation of results, as well as various research problems, will be addressed.
Letter grade only (A-F).

564/464. Quantitative Methods in Anthropological Research (4)
Prerequisites: ANTH 560, graduate standing, and consent of instructor.
A consideration of advanced statistical and analytical methods involved in anthropological research. Advanced statistical principles and techniques include principal components, ANOVA, MANOVA, factor analysis, bootstrapping, and sampling designs in the anthropological research.
Letter grade only (A-F). (Lec 3 hrs, Lab 2 hrs)

570. Linguistic Field Methods (4)
Introduces the student to the practical study of unfamiliar languages; through the help of a native speaker of a non-European language, the student will learn how to write down the sounds of the language and how to determine the structure of the language.
Letter grade only (A-F). Same course as LING 580. Not open for credit to students with credit in LING 580. (Lecture activity 5 hours)

571/471. Prehistory of Eastern North America (3)
Prerequisites: Graduate standing and consent of instructor.
Ecological and evolutionary account of prehistoric cultural developments in North America east of the Rocky Mountains. Cultural and environmental change from appearance of people in New World to collapse of indigenous cultural systems.
Letter grade only (A-F).

572/472. Archaeology of the Desert West (3)
Prerequisite: Graduate standing or consent of instructor.
Overview of archaeology of Great Basin, southwestern U.S., and northwestern Mexico. Major developments from the initial human colonization of North America through European contact, with emphasis on human ecology in and environments.
Letter grade only (A-F).
573/473. Archaeology of California (3)
Prerequisite: Graduate standing or consent of instructor.
Overview of archaeology of California, from initial human colonization through European contact. Emphasis on environmental change, human-environment interactions, the development of social complexity, and the consequences of European colonization.
Lettor grade only (A-F).

581/481. Faunal Analysis (4)
Prerequisites: Graduate standing and consent of instructor.
Introduction to the analysis of animal bones from archaeological sites; exploration of the theoretical and methodological issues that are fundamental to the study of faunal remains and modern zooarchaeology.
Lettor grade only (A-F). (Lec: 3 hrs, Lab 2 hrs)

585. Physical Science Techniques in Archaeology (4)
Prerequisites: Graduate standing and consent of instructor.
Focuses on the application of physical sciences such as physics, chemistry, and geology to archaeological research. Topics may include: dating techniques, paleobotany, paleoecology, and paleoenvironmental reconstruction.
Lettor grade only (A-F).

586/486. Geoarchaeology (3)
Prerequisite: Graduate standing or consent of Instructor.
Identification, analysis, and interpretation of sediments and soils associated with archaeological remains. Laboratories deal with sediment description and chemical analysis; field trips and student projects focus on archaeological applications of these subjects.
(3 hours seminar; 3 hours activity). Letter grade only (A-F).

587/487. Cultural Resource Management (3)
Prerequisite: Graduate standing or consent of instructor.
Introduction to the practice of public archaeology in the United States: historical and legal background; federal, state, and local programs; archaeology and Native Americans; contract archaeology; survey, evaluation, and mitigation projects; professional employment in U.S. cultural resource management.
Lettor grade only (A-F).

588. Advanced Methods in Near Surface Remote Sensing (4)
Prerequisites: Graduate Standing, ANTH 583, and consent of Instructor.
Advanced exploration of the use of near surface geophysical techniques in the study of archaeological deposits: theory and methodology in the use of remote equipment in archeology research; critical evaluation of applications and technological developments.
Lettor grade only (A-F).

591. Preceptorial Reading in Archaeological Science (3)
Prerequisite: Graduate standing.
Training in the problems, principles, and methods involved in the explanation of prehistory within a scientific framework. Meeting times to be arranged.
May be repeated to a maximum of 6 units in different semesters. Lettor grade only (A-F). May be repeated to a maximum of 6 units in different semesters.

592. Research Preparation in Archaeological Science (3)
Prerequisite: Graduate standing.
Training in steps required for conducted research in archaeological science. Consists of development of research questions, research design and proposal.
May be repeated to a maximum of 6 units in different semesters. Credit/No Credit only.

597. Directed Readings in Anthropology (1-3)
Prerequisites: Senior or graduate standing and consent of instructor.
Selected topics in anthropology will be studied in depth. A written report will be prepared.
Lettor grade only (A-F).

600. Seminar in Ethnology and Social Anthropology (3)
Topics of substantive and theoretical importance and their application to research problems. May be repeated to a maximum of 6 units. Lettor grade only (A-F).

620. Seminar in Archaeology (3)
Prerequisites: 6th semester units in archaeological courses or consent of instructor.
Important recent discoveries; contemporary ideas, trends and problems.
May be repeated to a maximum of 6 units. Lettor grade only (A-F).

630. Seminar in Anthropological Linguistics (3)
Prerequisite: Consent of Instructor.
Areas and methods of linguistic study and research; evaluation and intensive scrutiny.
May be repeated to a maximum of 6 units. Lettor grade only (A-F).

675. Applied Anthropology Internship Analysis (3-6)
Prerequisites: ANTH 510, 517, 590.
Guided review and discussion of internship in applied anthropology; hands-on introduction to team analysis and other analytic methods drawn on research conducted during the internship.
Credit/No Credit grading only.

697. Directed Research (1-3)
Prerequisite: Consent of department.
Research in anthropology on an individual basis.
Lettor grade only (A-F).

698. Thesis or Applied Project (1-6)
Prerequisite: Consent of department.
Planning, preparation and completion of a thesis (6 units) or an applied project (3 units) in anthropology.
May be repeated to a maximum of 6 units in the same semester. Lettor grade only (A-F).
The Department of Fine Arts has curricular programs leading to the following undergraduate degrees: (1) Bachelor of Arts (B.A.); (2) Bachelor of Arts (Art History); (3) Bachelor of Arts (Art Education); (4) Bachelor of Fine Arts in eight specializations (Photography, Ceramics, Drawing/Painting, Illustration/Animation, 3-D Media, Fiber/Metal/Wood, Printmaking, Sculpture, Graphic Design).

At the graduate level, the Department of Art regularly admits students into graduate degree programs with concentrations as follows:

1. Master of Arts degree in Art (code ART_MA01) with Concentration in Art Education (32 units)
2. Master of Arts degree in Art (code ART_MA01) with Concentration in Art History (39 units)
3. Master of Fine Arts degree in Art (code ART_MF01) with Concentration in Studio Art (50 units).

Additionally, the Department of Art occasionally accepts students into a program of study leading to the Master of Arts degree in Art (code ART_MA01) with Concentration in Studio Art (33 units).

In all Department of Art graduate degree programs, the student develops a personalized program of study within established curricular parameters, and with the consultation and approval of the student’s Thesis or Project committee. In the MFA, the student develops a personalized program of study within one of thirteen discipline-specific curricular tracks including Ceramics, drawing and Painting tracks, Metals, Illustration/Animation, fibers, Photography, three Printmaking tracks, Sculpture/4D, Visual Communication Design, and Wood.

Graduate degree program duration is contingent upon the number of units completed per semester, and time taken to complete Thesis or Project. The MFA degree structure is designed based upon a 6-semester (3-year) model, though it can be completed in fewer or more semesters. The MA degrees usually are completed in 4 to 8 semesters.

The department also offers a graduate-level Certificate Program in Museum and Curatorial Studies (code ART_CT02) and an interdisciplinary program leading to a Certificate in Biomedical Art (code ART_CT01). Either of these Certificates may be pursued independently, or in combination with a program of study directed toward the achievement of one of the department’s degrees.

The Department of Art may request projects completed by students for class credit to be retained by the department for a short specified period for purposes of promotion and exhibition.

Admission Under Impaction to the Bachelor of Arts in Studio Art

To be eligible for admission to the Option in Studio Art under the Bachelor of Arts (B.A.), applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met all combine to provide an exceptional opportunity and challenge to students seeking meaningful educational experiences and careers in the visual arts.
requirements for admission to the university as a freshman or transfer student. Applicants must have completed at least 60 semester units of baccalaureate-level work applicable toward a CSULB degree prior to the term for which the application is submitted. Eligible applicants will be selected for admission on a space-available basis based on cumulative grade point average.

Admission Under Impaction to the Bachelor of Fine Arts Degree

To be eligible for admission to a Bachelor of the Fine Arts (B.F.A.) program, applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have completed at least 60 semester units of baccalaureate-level work applicable toward a degree at CSULB. Students not meeting the minimum GPA requirement may petition for special consideration. Applicants must provide a portfolio of their creative work to the CSULB Department of Art. Your portfolio can be submitted before you enter the Department, but it is highly suggested that students interested in the B.F.A. programs enter the university as a Studio Art major, take between 6 to nine upper division units in the area of specialization, and then submit a portfolio. By doing so you will become acquainted with the Department and the specific requirements for our portfolio review. You only have two chances to apply for a B.F.A. program. By applying early you may use one of your chances before you are ready.

Admission to Baccalaureate Degree Options in Studio Art

The number of applicants to programs in Art usually exceeds the number that can be accommodated. For this reason, the department has been authorized by the California State University to apply supplemental admission criteria. Admission is on a competitive basis, and continuing CSULB students and transfer applicants will be considered equally.

Freshmen applying to the university as Art Education or Art History majors will be admitted to the major if they meet all requirements for admission to the university. Students applying to the B.A. in the Option in Studio Art or to one of the B.F.A. degree options will be admitted as pre-Studio Art majors. Admission as a pre-Studio Art major does not guarantee admission to the major.

Continuing students must apply for admission to the option during the month of November for the following fall or during the month of August for admission for the following spring. Applications must be submitted at such a date so that students can be admitted to an option by the time they reach 60 units.

Transfer applicants must apply during the initial filing period and must designate the major on the application. Students who are not admitted to the major will be admitted to an alternate major if they have listed one on the application. If no alternate major is listed, the student will not be admitted to the university.

Transfer students who qualify for admission to the university will be admitted to the Art Education or Art History major. Students applying for the B.A. in the Option in Studio Art, must meet the criteria for admission to the major. Students applying to a B.F.A. option must supply a portfolio of their creative work to the Department of Art.

Students who are not admitted to the designated major will be admitted to an alternate major if they have listed one on the application. If no alternate major is listed, the student will not be admitted to the university.

Admission Procedures for Change of Major

Currently enrolled students who are undecided or majors in other departments and who wish to apply for admission to degree option programs in art must:
1. Submit a Change of Degree Objective form to the Department of Art Student Services Office during the months of November or August;
2. Students applying for the B.F.A. degree programs in Art must also supply transcripts of college-level academic work attempted, and a portfolio of their creative work.

Undergraduate Programs

Bachelor of Arts in Art

Option in Studio Art (code ART_BA01) (120 units)

Requirements
Lower Division
1. AH 111A, 111B: 3 units 100-level AH
2. 6 units ART 101
3. ART 130, 131, 181, 184, 221
4. ART 132 or 287
5. One course from ART 132, 149, 241, 270, 271, 287
6. One course from ART 251A, 251B, 261, 263, 265

Upper Division
1. 9 units of Art History
2. One course from two of the following programs to total 6 units: Drawing and Painting, Printmaking, Illustration, Photography, Graphic Design;
3. One course from two of the following programs to total 6 units: Ceramics, Fiber, Metal, Sculpture, or Wood;
4. Plus an additional 12 units upper division from one of the following programs: Art History, Art Education, Ceramics, Drawing and Painting, Fiber, Graphic Design, Illustration, Metal, Photography, Printmaking, Sculpture, Wood.

Option in Art History (code ART_BA02) (120 units)

This program is for students who wish to specialize in the study of the history of art.

Requirements
Lower Division: AH 111A, 111B; 3 courses selected from AH 111C, 112, 113A, 113B, 114, 116; ART 130, 151; one course selected from ART 131, 154, 263, or 287; HIST 131, 132.

Upper Division Art History: AH 444, 446, 497; one course selected from: AH 311, 448, 449, 450.
Select three courses from one of the following 6 groups, plus one course from each of the remaining five groups:
IV: AH 411, 430, 436, 439, 441.
V: AH 460, 467, 468, 469, 471A, 470B, 471A, 471B, 471C.
Other: Complete two years of French or German (or other pre-approved foreign language) with an average grade of "B" or better.

Option in Art Education
(code ART_BA03) (120 units)

The Option in Art Education is a four-year degree program for students who wish to become art teachers at the middle and secondary school levels (or art specialists at the elementary level). Completion of this major meets the subject matter competence requirement for the Preliminary Single Subject Credential.

Requirements

Lower Division: AH 111A, 111B; 3 units of 100-level (Non-West) AH; ART 130, 131, 149, 181, 214, 251A, 251B, 287.

Single Subject Art Education Credential
(code 110)

In addition to meeting the subject matter competence requirement for the Preliminary Single Subject Credential in Art, prospective art teachers are also required to complete 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the department's Art Education Advisor early to plan their program. Before student teaching in art, students must pass a portfolio review. A passing score on the CBEST is also required. For information concerning requirements for the B.A. program, teacher preparation, as well as the fifth year for the credential, consult the art education advisor.

The Option in Art Education Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Bachelor of Fine Arts Degree

The Bachelor of Fine Arts degree is offered for the student eventually seeking a Master of Fine Arts degree, the position of a professional artist or designer, and for the student seeking a career of teaching studio art within a selected specialization. The B.F.A. degree program is demanding, requiring high quality performance in order to develop the professional competence of talented students toward successful entrance into the professional art field. There are seven professionally-oriented specialized programs leading to the B.F.A. degree.

Option in Art Photography
(code ART_BF01) (132 units)

Requirements

Lower Division: AH 111A, 111B; 3 units 100-level AH; ART 101; ART 130, 131, 149, 181, 214; ART 184 or 261.
Upper Division: AH 400; 3 units from AH 438, 439, 441; 3 units upper-division AH; ART 340, 342A, 405A, 447, 491C, 492V; 6 units ART 478; 5 units ART outside specialization
Track A: ART 444; 6 units from ART 406B, 414, 449; 3 units from ART 349, 436A, 475
Track B: ART 406B, 436A; ART 349 or 436B; 3 units from ART 414, 444, 449

Option in Ceramics
(code ART_BF02) (132 units)

Requirements

Lower Division: AH 111A, 111B; 3 units 100-level AH; ART 130, 131, 181, 251A, 251B, 287, 184 or 261.
Upper Division: ART 341A, 341B, 345A, 345B, 352A, 352B, 451A, 451B, 491A; AH 364 and 9 additional units of Art History only 3 of which may be AH 438, 439 or 441; and 9 units ART outside the specialization.

Option in Drawing and Painting
(code ART_BF03) (132 units)

Requirements

Lower Division: AH 111A, 111B; 3 units 100-level AH; ART 130, 131, 181, 287, 251B, 287, plus one course selected from: ART 251A, 251B, 287, 283.
Upper Division: ART 361, 383, 384, 387, 388
Contemporary Practices Track: ART 438 or 484, 492C, 481, 487; AH 9 units and 9 units ART outside the specialization.
Figurative Track: ART 483, 484, 492F, 492Z; ART 481 or 487;
AH 9 units, 6 units ART outside the specialization.
Capstone: ART 496A, 496B, 491G.

Option in Illustration
(code ART_BF04) (132 units)

Requirements

Lower Division: AH 111A, 111B; 3 units 100-level AH; ART 130, 131, 181, 184, 223, 271, 287.
Upper Division: ART 371A, 372, 383, 482; AH 6 units; 9 units ART outside the specialization.
Animation Track: ART 390, 391, 392, 393, 472, 499F; 6 units from ART 371B, 373, 385, 483.
Illustration Track: ART 321, 371B, 382, 471A; ART 374A or 499F; 6 units from ART 373, 385, 391, 483.

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Option in 3-D Media (Fiber, Metal or Wood) (code ART_BF05) (132 units)
Lower Division: AH 111A, 111B; 3 units 100 level AH; ART 130, 131, 251A or 251B, 261 or 184, 181, 287, 263.
Upper Division: ART 381, 491B; plus one of the following specializations:
Fiber: ART 310, 317, 328A, 429A, 432, 499N; select 3 units from ART 328B, 429B or 430; 6 units AH; ART 333 or 3 additional units AH; and 9 units ART outside the specialization.
Metal: ART 357A, 357B, 358A, 358B, 458A, 458B; select 3 units from ART 355, 356A, 356B, 395B, or 499H; 6 units AH; ART 353 or 3 additional units AH; and 9 units ART outside the specialization.
Wood: ART 354A, 354B, 454A, 454B, 499B for 9 units; 6 units AH; ART 333 or 3 additional units AH; and 9 units ART outside the specialization.

Option in Printmaking (code ART_BF06) (132 units)
Requirements
Lower Division: AH 111A, 111B; 3 units 100 level AH; ART 130, 131, 181, 184, 287, 149 or 241.
Upper Division: ART 370, 376, 377, 378, 379, 381, 475, 480, 491P, 499R; AH 365, 430, and 6 units elective from upper division Art History (AH) plus 12 units ART outside the specialization.

Option in Sculpture (code ART_BF07) (132 units)
Requirements
Lower Division: AH 111A, 111B, 3 units 100-level AH; 6 units ART 101; ART 130, 131, 221, 261, 263; ART 149 or 241; ART 181 or 184; 6 units from ART 132, 149, 181, 184, 223, 241, 251A, 251B, 265, 270, 271, 267.

Option in Graphic Design (code ART_BF08) (132 units)
Requirements
Lower Division: AH 111A, 111B, 3 units 100 level AH; ART 130, 131, 181, 184, 223; ART 132 or 267.
Upper Division: ART 318, 321, 327, 331, 334, 335, 336, 337, 423, 424; Select 6 units from the following: ART 420, 421, 422, 486, 499S; AH 444, and 3 units of Art History (AH); 6 units ART outside the specialization.

Certificate Program in Biomedical Art (code ART_CT01)
The Certificate Program in Biomedical Art is an interdisciplinary program sponsored by the Art and Biological Sciences Departments.
Biomedical art is commissioned principally by (1) hospitals or individual researchers for publication; (2) by publishers and film and television producers serving the biomedical professions; (3) by producers of educational aids for biomedicine. Therefore, proficiency in commercial art and printing procedures including photography and typography is required.
Special permission is not required for a student to pursue the Certificate in Biomedical Art. The student may apply for certification upon completion of the following CSULB course work and conditions:
Requirements
1. A major in art or biology:
2. A 2.75 overall GPA and 3.25 in the major:
3. 34 units as listed: ART 241 (3), 149 (3), 181 (3), 184 (3), 271 (3), 372 (2), 374A (3), 374B (3), 499F (3); and BIOL 200 (4), 208 (4); the BIOL 200 is waived for Biology majors.
Questions may be addressed to: Robin Richardson, Department of Art; richro@csulb.edu (562) 985-4858 or Kelly Young, Department of Biological Sciences; kyoung@csulb.edu (562) 985-6859.

Graduate Programs
Master of Arts in Art (code ART_MA01)
Master of Fine Arts in Art (code ART_MF01)
At the graduate level, the Department of Art offers, and regularly admits students into graduate degree programs with concentrations as follows:
1. Master of Arts degree in Art (code ART_MA01) with Concentration in Art Education (32 units)
2. Master of Arts degree in Art (code ART_MA01) with Concentration in Art History (39 units)
3. Master of Fine Arts degree in Art (code ART_MF01) with Concentration in Studio Art (60 units).
Additionally, the Department of Art offers, and occasionally accepts students into a program of study leading to the Master of Arts degree in Art (code ART_MA01) with Concentration in Studio Art (33 units).
In all Department of Art graduate degrees, the student develops a personalized program of study within established curricular parameters, and with the consultation and approval of the student’s Thesis or Project committee. In the MFA, The student develops a personalized program of study within one of thirteen discipline-specific curricular tracks including Ceramics, Drawing and Painting tracks, Fibers, Illustration/Animation, Mixed Media, Photography, Printmaking tracks, Sculpture, Visual Communication Design, and Wood.

Departmental Review Process
Admission to a degree program at CSULB is a two-part process that requires application to and acceptance by both the University and the Department of Art into a specific degree.

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Prerequisites for the Degree Concentrations

NOTE: Courses taken as prerequisites for a graduate degree may not be counted toward the graduate degree program of study.

An applicant who has deficiencies in prerequisites for a concentration, but who in the judgment of the Department of Art can meet those prerequisites with additional preparation specified at time of admission, may be admitted with conditionally classified graduate standing. Students who have deficiencies in prerequisites for a concentration, but who are willing to engage in additional preparation to meet prerequisites, are encouraged to apply.

Art Education Prerequisites

Applicants must complete 36 units of coursework approved by the Art Education faculty, and to include:
- 15 units upper-division units approved by the Art Education faculty
- 9 upper-division units of Art or Education electives
- 12 units Art History (6 must be upper-division)

Applicant must have a minimum 3.0 GPA in prerequisite courses.

Art History Prerequisites

Applicants must complete 36 units of coursework approved by the Art History faculty, and to include:
- 3 units from AH 447 or 547: Historiography of Art History
- 3 units from AH 448, 449, 450, 548, 549, or 550 (theory/criticism courses)
- 9 units additional upper-division Art History
- 9 units upper-division Art or Art History electives
- 12 units (or the equivalent) of foreign language

Applicant must have a minimum 3.0 GPA in prerequisite courses.

NOTE: Art History applicants should have completed at least two years (or a minimum of 12 units) of college-level French or German with an average grade of "B" or better. Students without this preparation are advised that all students accepted for the Art History MA must pass the In-house Foreign Language Exam within the first three semesters of study. (With approval from the Art History faculty, another language may be substituted.)

Studio Art Prerequisites

The Department of Art prefers, but does not require, that Studio Art applicants have undergraduate degrees in art. Application to our graduate programs is competitive and most applicants to the studio programs will have an undergraduate degree in art, many with a BFA in their chosen media. For Studio Art admissions, the part of the application that is given the most weight is the portfolio of work. The Department of Art invites all applicants who feel they have strong portfolios to apply. If faculty feel the application is strong, but the applicant needs additional preparatory work, the Department of Art may admit the applicant with conditionally classified graduate standing, with specific prerequisites stated on a case-by-case basis at the time of admission.

Departmental Application Requirements

January 1 through 31 prior to the fall term for which the applicant seeks admission, applicant must submit departmental application materials as follows:

MA and MFA Prerequisites

An applicant may be accepted if, in addition to having satisfied specific prerequisites set by the Department of Art for each degree concentration, the applicant has satisfied the minimum university standards found in the Admission section of this catalog.

Special Action: In rare and compelling circumstances, an applicant who doesn’t qualify for admission under the previous provisions may be admitted by special action if on recommendation of the appropriate faculty of the department/college concerned and in the judgment of the Associate Vice President for Graduate and Undergraduate Programs or his/her designee there exists acceptable evidence that the applicant possesses sufficient academic, professional, and other potential pertinent to her/his educational objectives to merit such action, as shown through aptitude scores, recent academic performance, and experiential background.
Art Education: Department of Art, application, statement of purpose, writing sample, portfolio of studio work, transcripts, and two letters of recommendation
Art History: Department of Art, application, statement of purpose, writing sample, transcripts, and two letters of recommendation
Studio Art: Department of Art, application, statement of purpose, portfolio of studio work, transcripts, and two letters of recommendation

A faculty list is available on the website; contact the appropriate professor if you need particular information on a specific program.

Transcripts

When you formally apply to the University, two official (sealed) sets are required; send one to Enrollment Services and one to the Department of Art.

Transfer Units

Transfer units are allowed on a case-by-case basis. With faculty approval, up to 12 post-baccalaureate units from another university may be accepted into the MA degree program and up to 24 units (for example, from a previous MA degree) into the MFA degree program. In the case of an existing MA degree from CSULB with a concentration in Studio Art, up to 30 units may be accepted into the MFA degree.

MA and MFA Degree Requirements

1. A minimum overall GPA of 3.0, with no grade below a "C".
2. Successful fulfillment of the Graduation Writing Assessment Requirement (GWAR) by passing the Writing Proficiency Examination (WPE), usually completed in the first semester in residence at CSULB and required to be fulfilled prior to Advancement to Candidacy. Students unable to pass the WPE may be able to fulfill the requirement by completing a special GWAR course.
3. Successful completion of an Advancement to Candidacy review. Reviews generally occur when a student has completed between one third and one half of the units required for the degree, and require the submission of a comprehensive list of coursework for the degree. Additional advancement requirements:

   • Art Education majors satisfy assigned written topics and prepare an oral defense of their research.
   • Art History majors present a qualifying paper and satisfy the language requirement in either French or German (or an approved substitution).
   • Studio Art majors participate in a group exhibition in the Art Department galleries and present an oral defense of their work.

If all scheduled units for the MA or MFA degree have been completed but the final written component has not been approved and submitted, registration in GS-700 (1 unit, no credit) through University Extension is required in order to maintain enrollment until the semester of graduation. Care should be taken not to exceed the University limit of seven years for all masters' degrees.

Additional information may be found in the "Department of Art Graduate Guidelines," given to each student accepted into a master's program.

Art Education Concentration for the MA

32 units of approved graduate and upper-division units to include:
2 units ART 505A or 505B Research in Art Education
6 units ART 601A and 601B Seminar in Art Education
6 units ART 695 (field problems) or 697 (directed study)
6 units of graduate level Art History beyond the 12 units taken as prerequisites, to complete a cumulative total of 18 units
6 units elective Art, Art Education, or Art History
6 units ART 698A Thesis or Project, with student completing a Thesis, or combination of Project, Project Report and Comprehensive Exam, as culminating experience within degree program.
At least 20 of the 32 units must be 500/600 level courses taken at CSULB.

Art History Concentration for the MA

39 units of approved graduate upper-division units to include:
3 units 546 Art History Methodologies and Writing
9 units AH 597 Seminar in Art History
15 units approved graduate-level or upper-division Art History
6 units approved graduate-level or upper-division Art or Art History
6 units AH 698 Thesis as culminating experience within degree program.
At least 24 of the 30 required units must be 500/600 level courses taken at CSULB.
Graduate-level or upper-division courses in other CSULB departments may be approved as course substitutions with approval of student's Thesis Committee.
Advancement to candidacy is contingent upon satisfactory completion of an approved qualifying paper, and satisfying foreign language proficiency requirements.

Museum and Curatorial Studies Emphasis for the Art History MA

39 units of approved graduate-level or upper-division units to include:
3 units AH 546 Art History Methodologies and Writing
3 units AH 530 Introduction to Curatorial Practicum
3 units AH 531 History of Museums and Exhibitions
3 units AH 539 Art of Mid to Late Twentieth Century
3 units AH 645A Exhibition Practicum
3 units AH 645B Exhibition Practicum
3 units AH 645C Exhibition Practicum
3 units AH 645D Exhibition Practicum
6 units AH 597 Seminar in Art History
3 units AH 597 Seminar in Art History or AH 542 Internship in Museum Studies
6 units AH 698 Thesis as culminating experience within degree program.

Studio Art Concentration for the MA

33 units of approved graduate and upper division units to include:
21 units Art
6 units graduate level Art History
6 units ART 608B Studio Project as culminating experience within degree program.

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Studio Art Concentration for the MFA

60 units of approved graduate and upper-division units. At least 36 units must be in 500/600 levels taken at CSULB. Transferred units are allowed on a case-by-case basis. At least 39 units must be in studio courses. No more than 3 units of ART 693 (teaching internship) may be applied to degree.

Students are admitted into discipline-specific tracks. All students take a core of 21 units. Each student takes an additional 39 units of approved coursework according to the track into which the student was admitted. Additional information, expectations, recommendations and guidelines for each track are included in the "Department of Art Graduate Guidelines" given to each student accepted into the MFA Concentration, and available upon request to applicants.

MFA Core Requirements

6 units of graduate-level Art History.
9 units of ART 664 (Graduate Studies: Directed Studio) taken with members of student's Project Committee beginning the first semester to completion of degree, or semester prior to advancement, which ever comes sooner. (Student must continue to enroll in 3 units of ART664 per semester for all semesters between advancement and semester of MFA project.)
6 units of ART 699 (Graduate Studies: MFA Project) taken in the final semester with members of student's Project Committee.

MFA Tracks

In addition to the MFA Core requirements, each MFA student takes 39 additional approved units according to the following discipline-based tracks into which students are admitted. NOTE: All 597, 598 and 599-numbered courses are studio-oriented variable-topic graduate courses, each with a discipline-specific focus, but with specific topic and structure varying from term to term.

Ceramics Track:
12 units from any ART 597K, 598K, 599K (Ceramics): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); 15 units approved graduate-level or upper-division coursework.

Drawing and Painting Track:
12 units from any ART 597K, 598K, 599K (Painting): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); 682 (seminar in professional practice); 15 units approved graduate-level or upper-division coursework.

Fiber Track:
12 units from ART 597N, 598N, 599N (Fiber): 6 units from any ART 597, 598 or 599 course; ART 681 (seminar in theory/ criticism), 682 (seminar in professional practice); 15 units approved graduate-level or upper-division coursework.

Illustration/Animation Track:
12 units from ART 597F, 598F, 599F (Illustration/Animation): 6 units from any ART 597, 598 or 599 course; ART 681 (seminar in theory/criticism), 682 (seminar in professional practice); 15 units approved graduate-level or upper-division coursework.

Metal Track:
12 units from ART 597J, 598J, 599J (Metal): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); 15 units approved graduate-level or upper-division coursework.

Photography Track:
12 units from ART 597V, 598V, 599V (Photography): 6 units from any ART 597, 598 or 599 course; 6 units ART 680 (interdisciplinary critique); ART 681 (seminar in theory/criticism); 682 (seminar in professional practice); 3 units from ART 536A (video), 550 (intermediad/installation), or 680 (interdisciplinary critique); 6 units approved graduate or upper-division coursework.

Printmaking Track A:
12 units from ART 597R, 598R, 599R (Printmaking): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); 15 units approved graduate-level or upper-division coursework.

Printmaking Track B:
12 units from ART 597R, 598R, 599R (Printmaking): 6 units from any ART 597, 598 or 599 course; 3 units from ART 597D (Drawing), 597L (Life Drawing and Painting) or 597F (Illustration/Animation); ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); 3 units from ART 373, 384 or 481 (drawing courses); ART 481 or 494 (drawing courses); 3 units from ART 492F (life drawing), 499F (Illustration) or 693 (teaching internship); 3 units approved graduate-level or upper-division coursework.

Printmaking Track C:
12 units from ART 597R, 598R, 599R (Printmaking): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); ART 579 (Printmaking; Photo and Digital Processes), ART 540 or 549 (photography or computer art); 3 units from ART 449 (experimental photography), 506A (digital imagery); 693 (teaching internship); 3 units from ART 508B (digital imagery), 573 (Seminar in Photo-based Art); 3 units from ART 499 (special studies), 514 (documentary photography) or 680 (interdisciplinary critique).

Sculpture/4D Track:
12 units from ART 597O, 598O, 599O (Sculpture/4D): 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism), 682 (seminar in professional practice); 3 units from ART 536A (video), 550 (intermediad/installation), or 680 (interdisciplinary critique); 9 units approved graduate or upper-division coursework.
Visual Communication Design Track:
12 units from ART 597S, 598S, 599S (Visual Communication Design); 6 units from any ART 597, 598 or 599 course; ART 683 (seminar in theory/ criticism), 684 (seminar in professional practice); 15 units approved graduate-level or upper-division coursework.

Wood Track:
12 units from ART 597B, 598B, 599B (Wood); 6 units from any ART 597, 598 or 599 course; ART 681 or 683 (seminars in theory/criticism); ART 682 or 684 (seminars in professional practice); 15 units approved graduate-level or upper-division coursework.

Graduate Certificate in Museum Studies (code ART_CT02)
The Certificate Program in Museum Studies is primarily directed toward graduate students in Art History and the visual arts, but does not exclude students in other fields. The specifically tracked course of study has an emphasis placed primarily on contemporary art.

A student may pursue the Certificate Program in Museum Studies as a program of study in itself, or in combination with a program of study directed toward the achievement of one of the department's degrees. A student may, with approval of both the Museum Studies Program and the student's Project or Thesis Committee, count up to 15 units of coursework toward both the degree and the certificate.

Admission to the program is by permission of the Program faculty and the head of the Art History Program. Applicants wishing to pursue the Certificate Program in Museum Studies should apply for the desired degree program during the regular Department of Art graduate application window of January 1 through 31, and should indicate interest in pursuing the Certificate Program in Museum Studies concurrently.

Applicants wishing to pursue the Certificate Program in Museum Studies separate from a degree program should contact the Department of Art Graduate Advisor.

Requirements
A total of 30 units to include:
3 units AH 530 Introduction to Curatorial Practices
3 units AH 531 History of Museums and Exhibitions
3 units AH 542 Internship in Museum Studies
3 units AH 539 Art of Mid to Late Twentieth Century
3 units AH 545A Exhibition Practicum
3 units AH 545B Exhibition Practicum
3 units AH 545C Exhibition Practicum
3 units AH 545D Exhibition Practicum
3 units AH 597 Seminar in Art History
3 units from AH 547 or 550 (historiography or theory/ criticism mid-twentieth century to present), or approved substitution.

Foundation Art
The classes listed below are the foundation art classes that are required of most studio art majors. When foundation classes are chosen, be aware of the prerequisites; do not take the classes out of order.
AH 111A,B,C Foundation Art History I, II, III
ART 130 Foundation Two-Dimensional
131 Foundation Three-Dimensional
132 Foundation Color Theory
149 Foundation Computer Art
181 Foundation Drawing
184 Foundation Life Drawing

Art Courses (ART)

LOWER DIVISION
10. Art Matrix (1)
Participation in art and design exhibitions, openings, lectures and special events.
Required of art majors. Must be repeated to a maximum of 5 units in different semesters. Those units do not count toward graduation. Credit/no credit grading.

101. Artists in Their Own Words (3)
Forum for students to hear first hand from artists and arts scholars discussing and contextualizing their work within their contemporary field. Includes multiple lectures by visitors and additional class lectures providing further context. Credit/no credit grading only. May be repeated up to 12 units in different semesters.

110. Introduction to the Visual Arts (3)
Prerequisite or corequisite: A General Education Foundation class. Exploration of meanings, purposes, styles, materials and forms of art and architecture. Multicultural perspective. Development of awareness through examination and comparison of art and artifacts, past and present.

130. Foundation Two-Dimensional (3)
Foundation course required to be taken by all majors within the Department of Art prior to 200 level or above art courses. Exploration and application of principles, components and terminology of two-dimensional design via relational, problemsolving and visual vocabulary exercises. Letter grade only (A-F). (6 hours lab)

131. Foundation Three Dimensional (3)
Foundation course required to be taken by all studio and art education majors within the Department of Art prior to 200 level or above art courses. Focus on structural, material, and compositional concerns involved in dealing with three-dimensional form. Letter grade only (A-F). (8 hours lab)

132. Foundation Color Theory (3)
Prerequisite: OR corequisite: ART 130
Foundation course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in some BFA degrees. Focus on visual and aesthetic interactions of color. (Not open to students with credit for ART 182.) Letter grade only (A-F). (8 hours lab)
149. Foundation Computer Art (3)
Prerequisites: ART 130.
Foundation course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in some BFA degrees. Project-based exploration of art related digital imaging, layout, and vector software, and introduction to interactive and web-based media. Letter grade only (A-F). Course fee may be required. (6 hrs. lab.) Not open for credit to students with credit in ART 395A.

181. Foundation Drawing (3)
Foundation course intended to be taken by all majors within the Department of Art prior to 200-level or above art courses. Introduction to drawing with emphasis on perspective, light, shadow, and volume in composition using a variety of media. Letter grade only (A-F). (6 hrs. lab.)

184. Foundation Life Drawing (3)
Prerequisites: ART 181.
Foundation course required in the BA Studio Art. Also satisfies requirements or choices in all other undergraduate degrees in the Department of Art. Introduction to drawing from the human figure. Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

221. Shop Orientation (1)
Familiarization with student workshop facilities, specific instruction on safety procedures and methods in use of tools and equipment. Safety lectures and technical demonstrations followed by hands-on experience. Projects familiarize students with machinery and facilitate the acquisition of basic woodworking skills. Credit/No Credit grading only. (2 hours activity)

223. Introduction to Typography (3)
Prerequisite: For Art majors: ART 130, 181. For Design majors: DESN 120A and 132A.
Introductory course in the fundamentals of typographic form. Close examination of the architecture of letterforms and alphabet construction. Letter grade only (A-F). (6 hours lab) Course fee may be required.

241. Introduction to Photography (3)
Prerequisites: ART 130, 181.
Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in some BFA degrees. Fundamentals of black-and-white photography: camera, darkroom techniques, photographic vision, critical issues. Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

251A. Introduction to Ceramics: Handbuilding (3)
Prerequisites/Corequisites: ART 131.
Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in BA Art Education and some BFA degrees. Includes slab, coil, and molding techniques: glazing, firing. Letter grade only (A-F). (6 hrs. lab.)

251B. Introduction to Ceramics: Wheel Throwing (3)
Prerequisites/Corequisites: ART 131.
Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in BA Art Education and some BFA degrees. Development of forms with potters wheel, glazing, and firing. Letter grade only (A-F). (6 hrs. lab.)

261. Introduction to Life Sculpture (3)
Prerequisites/Corequisites: ART 131, 181, or consent of instructor. Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in most BFA degrees. Modeling from the human figure with emphasis on composition. Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

263. Introduction to Sculpture (3)
Prerequisites: ART 131 or consent of instructor. Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in BA Art History and most BFA degrees. Exploration of art in three and four dimensions. Letter grade only (A-F). (6 hrs lab)

265. Introduction to Fiber (3)
Prerequisites: ART 130, 131
Introductory course satisfying a choice between requirements in the BA Studio Art. Satisfies requirements or choices in some BFA degrees. Introduction to mixed media and fiber/textile materials, processes and approaches including surface design, papermaking, weaving, hand-construction. Letter grade only (A-F). (6 hours lab)

270. Introduction to Printmaking (3)
Prerequisite: ART 181
Introductory course satisfying a choice between requirements in the BA Studio Art. Satisfies requirements or choices in some BFA degrees. Exploration of multiple printmaking processes and possibilities for producing art in multiples, variations, and unique works. Focus on non- toxic approaches. Letter grade only (A-F). (6 hours lab.)

271. Introduction to Rendering (3)
Prerequisite: ART 181, 130.
Introductory course satisfying a choice between requirements in the BA Studio Art. Satisfies requirements or choices in some BFA degrees. Graphic visualization for convincing representation. Letter grade only (A-F). (6 hrs. lab.)

287. Introduction to Painting (3)
Prerequisites: ART 130, 181
Introductory course satisfying a choice between requirements in the BA Studio Art (Students choose from a group of courses). Also satisfies requirements or choices in BA Art Education, BA Art History, and most BFA degrees. Introduction to painting problems using opaque media. Letter grade only (A-F). (6 hrs. lab.)

Art Education
(ART 407 and 499P acceptable for M.A., Art Education Specialization)
300. Art, Adolescents, and the Child
301. Cross-Cultural Perspectives in Art Education
305. Art Disciplines and New Technology
407. Art Practicum
412/512. Aesthetic Theories and Art Education
408/508. Historical Perspectives in Contemporary Art Education
415. On-Site Studies in Art Education
499P. Special Studies in Art Education

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- 432/332. Museum Practices
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- 356. Jewelry Casting
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- 358A-B. Metalsmithing
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- 359B. Sculptural Metalwork
- 458A-B. Advanced Metalsmithing/Jewelry and Enameling
- 491B. Senior Project
- 499I. Special Studies in Metalsmithing and Jewelry
300. Art, Adolescence, and the Child (3)
Experiences in self-expression from the California Visual and Performing Arts Framework while addressing children’s artistic and aesthetic development. Following state content standards, students develop aesthetic perception, learn skills for talking about art, and gain understanding in historical and cultural contexts.
Letter grade only (A–F). Course fee may be required. (6 hrs. lab.)

301. Cross Cultural Perspectives in Art Education (3)
Prerequisites: Completion of 12 units of Art Foundation.
Application of the state content standards as written in the California Visual and Performing Arts Framework and reflecting racial, ethnic, linguistic, gender, sexual, cultural and cross-cultural perspectives.
Letter grade only (A–F). A minimum of 16 hours of community service learning required. (6 hrs. lab.)

305. Art Disciplines and New Technology (3)
Prerequisites: Completion of 12 units of Art Foundation.
Develops skills in making and talking about art through interrelating art production with art criticism, cultural-historical connections, and philosophical aesthetics. Emphasizes newer art forms and technology, including video and computer, providing additional approaches for the artist and art educator.
Letter grade only (A–F). Course fee may be required. (6 hrs. lab.)

316. Fiber: Pattern Design and Printing (3)
Prerequisites: ART 130, 131, 181, 238; 6 units from AH 111A, 111B.
Variety of design concepts for both hand and commercial application of pattern to textiles and other surfaces. To include pattern system design, stamping, and silkscreen printing.
Letter grade only (A–F). (6 hrs. lab)

317. Fiber: Textile Dyeing (3)
Prerequisites: ART 130, 131; AH 111A, 111B.
Exploration of a variety of design concepts and dye processes to include natural and chemical (acid and fiber reactive) dye technology using discharge, shibori resist, batik, and direct painting techniques.
Letter grade only (A–F). Not open for credit to students with credit in ART 327F. (6 hrs. lab.)

318. TYPE II: Intermediate Typography (3)
Prerequisites: For Art majors: ART 150, 151, 181, 184, 223, 152 or 257, AH 111A, 111B or consent of instructor. For Design majors: DESN 120A and 120B.
Focus on the compositional use of type and its relationship to issues of visual hierarchy, readability and page structure. Students will continue their exploration of typography as an expressive visual form.
Letter grade only (A–F). Course fee may be required. (6 hrs. lab.)

320. Practical and Theoretical Issues in the Visual Arts (3)
Focus on developments in art of 60s through present. Consideration of factors that shape the face of contemporary art. Includes lectures, slide presentations, screenings and guest lectures from artists.
Letter grade only (A–F). Not open for credit to students with credit in ART 320A. (6 hrs. lab.)

321. Graphic Design I: Introduction to Graphic Design (3)
Prerequisites: ART 130, 131, 181, 184, 223; 132 or 257; AH 111A, 111B
Introductory course, exploring formal constructs of combining type and image and of image creation. Enhance understanding of problem definition and concept development. Explore the relationships of form to content.
Not open for credit to students with credit in ART 322A. Letter grade only (A–F). (6 hrs lab) Course fee may be required.

327. Graphic Design II: Intermediate Graphic Design (3)
Prerequisites: ART 223, 318, 321
Intermediate course, developing formal and conceptual skills using type and image, learning fundamentals of prepressing art for print. Course requires student-owned laptop computer. See Department of Art website for current laptop hardware and software specifications.
Letter grade only (A–F). (6 hrs lab)

328A. Fiber and Mixed Media: Sculptural Forms (3)
Prerequisites: ART 150, 151, AH 111A, 111B.
Exploration of concepts and materials using non-loom textile techniques. Development from 2-D relief surfaces to full 3-D forms. May include basic fiber structures of stitching, wrapping, felting, papermaking, twining, knotting, crochet, and coiling.
Letter grade only (A–F). (6 hrs. lab.)

328B. Fiber and Mixed Media: Sculptural Forms (3)
Prerequisites: ART 328A.
Designed to strengthen a working understanding on non-loom fiber structures. Emphasis on development of personal expression within media.
Letter grade only (A–F). (6 hrs. lab.)

331. Advertising I: Introduction to Concept Development (3)
Prerequisites: ART 130, 131, 181, 184, 223, 318, 321, 132 or 257; AH 111A, 111B.
Introduction to learning how to think more conceptually through creating print ads primarily by understanding the foundations of setting an objective, planning a creative strategy, identifying a target; and by learning various ways to think creatively.
Letter grade only (A–F). (6 hrs. lab.)

332. Graphic Design: Professional Preparation (3)
Prerequisites: ART 318, 321, 327, 331
Engages students into the profession of Graphic Design, including portfolio and resume development, presentations, interview skills, pricing and negotiating, ethical guidelines, and project organizational skills.
Not open for credit to students with credit in ART 324. Letter grade only (A–F). (6 hrs. lab.)

333. Behind the Art Scene (3)
Prerequisites: AH 111A, 111B, 3 units 100 level AH
Examination of factors influencing the development and understanding of contemporary art focusing on examples in art from the mid-twentieth century to the present.
Letter grade only (A–F)

334. Graphic Design III: Exploration and Experimentation (3)
Prerequisite: BFA Graphic Design major or consent of instructor.
Advanced design course, examining and creating traditional, alternative and experimental solutions across a variety of media. Course requires student-owned laptop computer. See Department of Art website for current laptop hardware and software specifications.
Not open for credit to students with credit in ART 323. Letter grade only (A–F). (6 hrs. lab.)

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335. Advertising II: Intermediate Concept Development and Art Direction (3)
Prerequisites: AFA Graphic Design major or consent of instructor. Development of concept and design advertising projects that are strategically sound, creatively unexpected, innovative and of portfolio quality. Course requires student-owned laptop computer. See Department of Art website for current laptop hardware and software specifications.
Not open to credit to students with credit in ART 329. Letter grade only (A-F). (6 hrs. lab.)

336. Graphic Design IV: Development and Analysis (3)
Prerequisites: ART 321, 334, 335 or consent of instructor. Learn and practice in-depth research and analytical procedures that establish visual conception development and create systematic applications design. Course requires student-owned laptop computer. See Department of Art website for current laptop hardware and software specifications.
Not open to credit to students with credit in ART 322B. Letter grade only (A-F). (6 hrs. lab)

337. Graphic Design V: Packaging Design (3)
Prerequisites: ART 321, 334, 335 or consent of instructor. Materials, processes and the design of packaging. Course requires student-owned laptop computer. See Department of Art website for current laptop hardware and software specifications.
Not open to credit to students with credit in ART 325. Letter grade only (A-F). (6 hrs. lab)

340. Intermediate Photography (3)
Prerequisites: ART 130, 241, 181, 184, 287; 6 units from AH 111A, 111B.
More advanced black and white darkroom and camera work. An introduction to the view camera as well as the development of a body of work.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

341A. Intermediate Ceramics: Handbuilding (3)
Prerequisites: ART 130, 131, 251A, 181; 6 units from AH 111A, 111B.
Design problems with handbuilt ceramic forms with emphasis on surface.
Letter grade only (A-F). (6 hrs. lab.)

341B. Intermediate Ceramics: Wheel Throwing (3)
Prerequisites: ART 130, 131, 251B, 181; 6 units from AH 111A, 111B.
Design problems with wheel-thrown ceramic forms with emphasis on surface.
Letter grade only (A-F). (6 hrs. lab.)

342A. Color Photography (3)
Prerequisites: ART 340.
Survey of current color materials and processes with emphasis on exposure, developing and printing. Contemporary approach to color photography will be stressed.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

343A. Ceramics Sculpture (3)
Prerequisites: ART 341A.
Advanced studies in ceramic sculpture.
Letter grade only (A-F). (6 hrs. lab.)

343B. Advanced Wheel Throwing (3)
Prerequisites: ART 341B.
Advanced studies in ceramic form employing the potter's wheel.
Letter grade only (A-F). (6 hrs. lab.)

349. Computer Art (3)
Prerequisites: ART 149; 6 units from AH 113A, 113B, 111A, 111B.
Basic theory and hands on use of microcomputers employing graphics in "Paint Programs" with color handcopy output and animation production on video tape. Emphasis on computer graphic applications in students' individual studio art disciplines.
Letter grade only (A-F). Course fee may be required. Not open for credit to students with credit in ART 349B. (6 hrs. lab.)

352A. Ceramics: Glaze Technology (3)
Prerequisites: ART 130, 131, 251A or 251B, 181; 6 units from AH 111A, 111B.
Nature of raw materials as they relate to the development of clay bodies and ceramic glazes.
Letter grade only (A-F). (6 hrs. lab.)

352B. Ceramics Plaster Shop (3)
Prerequisites: ART 130, 251A or 251B, 181; 6 units from AH 111A, 111B.
Use of plaster molds for making ceramic art including press molds, slip casting, and jiggering.
Letter grade only (A-F). (6 hrs. lab.)

354A. Introduction to Wood (3)
Prerequisites: ART 130, 131, 181, 221; 6 units from AH 111A, 111B.
Introduction to tools, techniques, and concepts used in making of handcrafted wood objects. Basic shaping techniques of carving, joinery, and construction with intent of understanding character and language of wood.
Letter grade only (A-F). (6 hrs. lab)

354B. Intermediate Wood (3)
Prerequisites: ART 130, 151, 181, 221; 6 units from AH 111A, 111B.
Intermediate study of tools and processes of making complex wooden structures. Layout techniques, joinery methods, and non-rectilinear form are explored in greater detail.
Letter grade only (A-F). (6 hrs. lab)

355. Enameling (3)
Techniques, materials, and concepts of enameling on metal. Introduction to tools and enameling techniques associated with making enameled metal objects. Emphasis on exploration of characteristics of enameled metal objects, stressing individual advancement of interest and expression.
Letter grade only (A-F). Course fee may be required. May be repeated once for credit. (6 hrs. lab.) Not open for credit to students with credit in ART 355A.

356. Jewelry Casting (3)
Prerequisite: ART 130, 131, 181; 6 units from AH 111A, 111B; or consent of instructor. Design and creation of jewelry through lost-wax casting techniques and processes.
Course fee may be required. May be repeated to a maximum of 6 units. (6 hrs. lab.)

357A-B. Beginning Metals and Jewelry (3-3)
Prerequisites: For ART 357A: ART 130, 131, 181, 287; 6 units from AH 111A, 111B.
For ART 357B: ART 357A.
Design and creation of jewelry.
Letter grade only (A-F). Course fee may be required. (0 hrs. lab.)

358A. Metalsmithing (3)
Prerequisite: ART 357A.
Design and creation of flatware and hollowware.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)
358B. Metalsmithing (3)
Prerequisites: ART 357A.
Design and creation of flatware and hollowware.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

359A. Architectural Metalwork and Blacksmithing (3)
Prerequisite: ART 130, 131, 181; 6 units from AH 111A, 111B, 111C.
Techniques, materials, and concepts of metal craft for developing
art forms in larger scale and in architectural context. Hot forging
and fabricating with ferrous metals. Basic techniques of cutting,
forming, joining, welding, and surface design of metals. Making of
tools. May be repeated to a maximum of 6 units. Course fee may be
required. (6 hrs. lab.) Letter grade only (A-F).

359B. Sculptural Metalwork (3)
Prerequisite: ART 130, 131, 181; 6 units from AH 111A, 111B, 111C.
Introduction to metalworking and construction techniques in
the design and creation of sculptural form and composition in metal on
an architectural scale. May be repeated to a maximum of 6 units. Course fee may be
required. (6 hrs. lab.) Letter grade only (A-F).

360A. Sculpture: Intermediate (3)
Prerequisites: ART 130, 131, 181, 183; 6 units from AH 111A, 111B, 111C
or consent of instructor.
Exploration and refinement in wide range of sculptural techniques
and strategies. Introduction to installations and public work.
Some work will be with time based kinetic art. Course will include
introduction to 3-D art theory.
(6 hrs. lab.) Letter grade only (A-F).

360B. Sculpture: Intermediate (3)
Prerequisites: ART 130 or consent of instructor.
Exploration and refinement in a wide range of sculptural
techniques and strategies. Introduction to installations and public work.
Some work will be with time based kinetic art. Will include
introduction to 3-D art theory.
(6 hrs. lab.) Letter grade only (A-F).

361. Sculpture from Observation (3)
Prerequisites: ART 130, 131, 181, 183; 6 units from AH 111A, 111B, 111C
Intensive study in observation-based figurative/representational
sculpture. Emphasis on hand forming. Introduction of mold and
casting techniques and direct plating process.
Course fee may be required. (6 hrs. lab.) Letter grade only (A-F).

362A. Sculpture: Mold Making and Casting for Foundry (3)
Prerequisites: ART 130, 131, 181, 183; 6 units from AH 111A, 111B, 111C
Exploration of modeling positive forms, creating ceramic-shell
molds and sand molds, and casting, finishing and patinating works in
metal.
(6 hrs. lab) Letter grade only (A-F). Course fee may be required.

362B. Sculpture: Mold Making and Casting with Reusable Molds (3)
Prerequisites: ART 130, 131, 181, 183; 6 units from AH 111A, 111B, 111C
Exploration of the use of plaster and flexible molds for reproduction
of forms in multiple.
(6 hrs. lab) Letter grade only (A-F).

363. Sculpture: Fabrication and Carving (3)
Prerequisites: ART 130, 131, 181, 183; 6 units from AH 111A, 111B, 111C, or consent of instructor.
Exploration of fabrication using a number of materials, such as
metal, wood, fabric, and objects, along with carving techniques in
both traditional and non-traditional materials. Emphasis will be on
techniques, personal content, and form.
(6 hrs. lab.) Letter grade only (A-F).

364. Sculpture: Electronics, Mechanics, Kinetics (3)
Prerequisites: AH 111A, 111B; ART 130, 131; ART 261 or 263; or
consent of instructor.
Exploration of basic electronics, mechanics, microcontroller
interface, and simple software coding for the creation of works of
art. Consideration of form, movement, light, sound, behavior, and
interactivity.
(6 hrs. lab.) Letter grade only (A-F).

365. Media Design: Motion Graphics (3)
Prerequisites: ART 327 or consent of instructor.
Learning the essentials of theory, practice, visual and verbal
vocabulary of moving forms. Time, space, image and audio will be
emphasized within the context of concept development and design
aesthetics.
Not open for credit to students with credit in ART 385A. Letter grade
only (A-F). (6 hrs. lab.) Course fee may be required.

366. Media Design: Web and Interactive Design (3)
Prerequisites: ART 327 or consent of instructor.
Develop skills and principles for design for non-linear environments.
Students learn to conceptually, theoretically, and aesthetically,
develop web standards, information progress, usability, and
accessibility.
Not open for credit to students with credit in ART 360B. Letter grade
only (A-F). (6 hrs. lab.) Course fee may be required.

370. Printmaking (3)
Prerequisites: ART 130, 131, 181, 287; 6 units from AH 111A, 111B, 111C
Studio course exploring a range of printmaking techniques and
imagery, selected from the areas of etching, lithography, silkscreen,
relief and monoprinting.
(6 hrs. lab.) Letter grade only (A-F).

371A/B. Illustration (3,3)
Prerequisites/Corequisites: For ART 371A: ART 130, 131, 181, 184,
287; 6 units from AH 111A, 111B, 111C. For ART 371B: ART 223 and
271 as prerequisite or corequisites; 371A.
Editorial and advertising drawing, professional media, skills and
techniques survey.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.

372. Anatomy for Artists (3)
Prerequisites: ART 130, 131, 181, 184; 6 units from AH 111A, 111B, 111C
Skeletal and muscle structure emphasizing the development of skill in
depicting the human figure.
Course fee may be required. (6 hrs. lab.) Letter grade only (A-F).

373. Costumed Figure Drawing (3)
Prerequisites: ART 371A, 372; 6 units from AH 111A, 111B, 111C
Drawing from costumed models with props and controlled lighting.
Emphasis on development of “staging.” Manipulation of composition,
light, shadow, value, color, proportion, and scale are explored to
achieve mood, gesture, drama, and attitudes related to human
reactions, situations and characters.
(6 hrs. lab.) Course fee may be required. Letter grade only (A-F).

374A/B. Biomedical Rendering (3,3)
Prerequisites: ART 130, 184, 287; 6 units from AH 111A, 111B, 111C;
or consent of instructor.
Introduction to and practice in techniques of descriptive drawing and
photorealistic reproduction of drawing. Emphasis on skill.
(6 hrs. lab.) Letter grade only (A-F).
Art Courses (ART)

375. Art and Social Action: A Global Perspective (3)
Prerequisite: Upper division status.
Combines art and sociology to examine the interconnections among global processes and critical global social problems. Includes the theoretical frameworks to underpin the gender, racial, and ethnic components of these problems, and art and human agency in advancing social change.

376. Printmaking: Relief Printing (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Instruction in relief printing techniques and image development, including woodcut, wood engraving, linocut, collagraphs and alternative print surfaces. In black and white and color.
(6 hrs. lab.) Letter grade only (A-F).

377. Printmaking: Silkscreen (3)
Prerequisites: ART 130, 181, 184; 6 units from AH 111A, 111B.
Instruction in silkscreen printing techniques and image development, including resist, paper, film, emulsion and alternative stencil methods.
(6 hrs. lab.) Letter grade only (A-F).

378. Printmaking: Etching (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Instruction in intaglio printing techniques and image development, including etching, engraving, dry-point, aquatint and alternative photomaking methods. In black and white and color.
(6 hrs. lab.) Letter grade only (A-F).

379. Printmaking: Lithography (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Instruction in stone lithography techniques and image development, including crayon drawing, flats, washes, transfers and alternative drawing methods. In black and white and color.
(6 hrs. lab.) Letter grade only (A-F).

381. Intermediate Drawing (3)
Prerequisites: ART 130, 181, 184; 6 units from AH 111A, 111B.
Problem and concept in drawing using a variety of media.
(6 hrs. lab.) Letter grade only (A-F).

382. Production for Fine Arts (3)
Prerequisites: ART 223 or consent of instructor.
Exploration of printing and reproduction processes related to needs of artist, illustrator, and museum professional. Introduction to skills and vocabulary necessary for preparation of art for print and electronic media. Emphasis on interaction with various commercial production professionals.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.

383. Life Painting (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Painting from the human figure with emphasis on representing form in space, structure, color, value, and composition.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.

384. Intermediate Life Drawing (3)
Prerequisites: ART 130, 181, 184; 6 units from AH 111A, 111B.
Continued study in drawing from the human figure from direct observation.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.

385. Watercolor Painting (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Nature and use of the watercolor media.
(6 hrs. lab.) Letter grade only (A-F).

387. Painting (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Problems and concepts in space, form, structure, color and content in studio painting.
(6 hrs. lab.) Letter grade only (A-F).

388. Color Theory and Composition (3)
Prerequisites: ART 130 and 6 units selected from AH 111A, 111B.
Focuses on visual and aesthetic interactions of color as portrayed to painting. Utilizes theories of colorists such as Itten, Alberts, Hofmann to study distinct color properties and functions. Combines lecture, demonstration, and critique with hands-on exploration, problem solving.
Not open for credit to students with credit in ART 182. Letter grade only (A-F). (6 hours lab)

389. Materials and Techniques of Drawing and Painting (3)
Prerequisites: ART 130, 181, 184, 287; 6 units from AH 111A, 111B.
Theory and practice in the craft of drawing and painting.
Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters. (6 hrs. lab)

390. Drawing: Figures in Context (3)
Prerequisites: ART 371A or permission of instructor.
Drawing from life based on the nude and draped human form and animal forms. Focus on short pose gestural drawing, emphasizing dramatic exaggeration of form and shape, movement, body language and character.
(6 hours lab) Course fee may be required. Letter grade only (A-F).

391. Animation 1 (3)
Prerequisite: ART 371A or consent of instructor.
Introduction to basic principles of traditional hand-drawn animation and creation of basic movement cycles using specific coordinating computer software. Focus on elements of weight, movement, timing and exaggeration. Provides an overview of alternative approaches to animation.
Not open to students with credit in ART 391A. Letter grade only (A-F). (6 hours lab) Course fee may be required.

392. Animation 2 (3)
Prerequisite: ART 391
Continued study of basic principles of traditional hand drawn animation and alternative approaches learned in ART 391. Focus on weight, movement, timing, exaggeration, dramatic staging, and narrative structure. Provides further development of animating skills. Specific coordinating computer software is used.
Not open for credit to students with credit in ART 391B. Letter grade only (A-F). (6 hours lab) Course fee may be required.

393. Character Design (3)
Prerequisites: ART 371A or Permission of Instructor
Introduction to basic principles of character design. Overview of stylistic approaches for commercial and alternative applications. Focus on creating original and believable characters with drawing and use of relevant computer software.
(6 hours lab) Course fee may be required. Letter grade only (A-F).

406A/506A. Digital Imagery for the Arts (3)
Prerequisites: ART 149, 340, or consent of instructor.
Examination of digital imaging through Adobe Photoshop software. Emphasis on relationship of digital imaging to photography. Exercises to develop skills, strategies and fluency for working in digital media. Concentration on theory of media and representation as well as individual projects.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.
406B/.506B. Advanced Digital Imagery for the Arts (3)
Prerequisites: ART 406A or 506A, 444.
Exploration of theory and practice of digital imaging and advanced
techniques. Emphasis on multimedia and individual projects.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.
407. Art Practicum (3)
Prerequisite: Completion of 12 units of Art Foundation.
Enrollment in any major; attitude and skill development for production, evaluation, and
appreciation of visual arts. Consideration for art processes and products in an
ethically diverse society. Inquiry methods of artists, critics, historians, and aestheticians examined for active learning.
Art Education B.A., Portfolio address.
Course fee may be required. (8 hrs. lab) Letter grade only (A-F).
408/.508. Historical Perspectives in Contemporary Art
Prerequisites: Completion of 12 units of Art Foundation.
Examinations of historical and philosophical foundations of art education
globally from antiquity to the present, emphasizing developments in
American, social, political, and economic factors. Theoretical
developments; notable theorists are explored in relation to
current art educational practice.
Letter grade only (A-F).
412/.512. Aesthetic Theories and Art Education (3)
Prerequisites: Completion of 12 units of Art Foundation.
Past and current philosophical writings of aestheticicians, critics,
artists, and art educators will be investigated with theoretical,
practical, and cross-cultural implications for the arts educator.
Letter grade only (A-F).
414/.514. Documentary Photography (3)
Prerequisites: ART 340, 444, or consent of instructor.
History, theory, practice, and production of still documentary
photographic works with emphasis on the photograph as an
instrument for social influence and change.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)
415. On-Site Studies in Art Education (3)
Prerequisites: Completion of 12 units of Art Foundation.
Theory generated and practiced during study and participation at
approved sites, including The Art Workshop for Youth and Art to
Schools Program. Consideration of state and national standards
involving multicultural, cross-cultural, and interdisciplinary
experiences with art.
(6 hrs. lab) Letter grade only (A-F).
416/.516. Animation 3 (3)
Prerequisites: For 416: ART 392. For 516: ART 392 or consent of
instructor.
Further development in traditional hand-drawn 2D animation
principles and techniques that allow students to develop
towards professional standards. Emphasis will be on character
performance and acting, directing and film making, and creating a
professional reel.
Letter grade only (A-F). (6 hrs. lab.)
417/.517. Animation 4 (3)
Prerequisites: For 417: ART 416. For 517: ART 516 or permission
of instructor.
Further development in advanced traditional hand-drawn
2D animation principles and techniques that allow students to
continue towards professional standards. Focus will be on
completion of short animated projects for inclusion on a
professional animation reel.
Letter grade only (A-F). (6 hrs. lab.)
420. Visual Communication Design Workshop (3)
Prerequisite: Consent of instructor and portfolio review; majors only.
On-campus design studio experience oriented toward
development of printed portfolio-quality design work. Professional
designer/director environment with involvement in actual projects
with clients, budgets, and deadlines. Students responsible for all
project phases from design to production, print supervision, and
completion.
May be repeated to a maximum of 9 units. (8 hrs. lab.) Letter grade
only (A-F). Course fee may be required.
421. Advanced Typography (3)
Prerequisites: Consent of instructor. Freshmen are prohibited from
enrolling in upper division courses.
Emphasis on advanced/highly detailed information layout,
traditional and experimental typeface design and exploration of
historical and contemporary typographic forms.
Letter grade only (A-F). (6 hours activity)
423. Graphic Design VI: Advanced Topics (3)
Prerequisites: ART 334, 335, 336, 337
Advanced projects in areas such as branding, design systems
development and cross-media work. Course requires student-owned
laptop computer. See Department of Art website for current
laptop hardware and software specifications.
Not open for credit to students with credit in ART 422A. Letter grade
only (A-F). (6 hrs. lab.)
424. Advertising III: Advanced Topics (3)
Prerequisites: ART 335, 423
Advanced advertising course allowing students to produce work
based on their area of interest. It is public service oriented. Course
requires student-owned laptop computer. See Department of Art
website for current laptop hardware and software specifications.
Not open for credit to students with credit in ART 422A. Letter grade
only (A-F). (6 hrs. lab.)
426/.526. Computer Animation 1 (3)
Prerequisite: ART 392 or consent of instructor.
Introduction to animating with 3D computer animation software.
Students will explore basic 3D computer generated animation, including modeling, rigging, lighting, texturing and
camera set-up with emphasis on character animation. Integration of
elements within the animation process will be investigated.
Letter grade only (A-F). (6 hrs. lab.)
427/.527. Computer Animation 2 (3)
Prerequisite: For 427: ART 426. For 527: ART 526
Continued investigation of 3D computer generated animation using
industry standard computer software. Focus will be on advanced
counter animation with an emphasis on character performance
and advanced computer animation techniques.
Letter grade only (A-F). (6 hrs lab.)
428A. Fiber: Weaving, Dyeing, Woven Structures (3)
Prerequisites: ART 130, 131; AH 111A, 111B.
Exploration of weaving and dyeing methods using a wide variety of
techniques and materials. Emphasis on personal expression within
the contemporary fiber art.
Letter grade only (A-F). (6 hrs. lab.)
428B. Fiber: Weaving, Dyeing, Woven Structures (3)
Prerequisites: ART 429A.
Focus on woven structural textiles of greater complexity. Includes
dyed and woven fabric, multi-layered construction, and use of the
Computer loom
Letter grade only (A-F). (6 hrs. lab.)
430. Fiber: Artist Books and Papermaking (3)
Prerequisites: ART 130, 131, 181; ART 132 or 287; AH 111A, 111B.
Basic materials and techniques of papermaking and handmade
artist books with an emphasis on concept and form development.
May be repeated to a maximum of 6 units in different semesters.
Letter grade only (A-F). (6 hrs. lab.)
452. Fiber and Mixed Media: Advanced (3)
Prerequisites: ART 130, 131, 181; ART 132 or 287; ART 317 or 328A; ART 428A or 430.
Designated for the advanced Fiber students. Students will work on conceptual assignments using materials and media from a wide range of fiber processes of their choice. There will be some reading and group discussion assignments as well. May be repeated to a maximum of 6 units in different semesters. Letter grade only (A-F). (3 hrs. lab.)

453A/453B. Sculpture 4D: Video Art (3)
Prerequisites: ART 436A.
Historical/theoretical and practical/technical introduction to digital video and other art practices involving digital media. Letter grade only (A-F). (5 hrs. lab.) Course fee may be required.

453B/453D. Sculpture 4D: Video Art (3)
Prerequisites: ART 436A.
Continuation of ART 436A with more advanced projects, introduction of more specialized software and equipment, and alternative modes of display.
Letter grade only (A-F). (5 hrs. lab.) Course fee may be required.

454/4540. Art in Public Places: Theory and Practice (3)
Prerequisites: ART 130, 131, and 6 units of Art History selected from AH 111A, 111B, or by consent of instructor.
Exploration of theory and practice of developing, proposing, and producing artist-initiated and commissioned temporary and permanent works for the public sphere. Historical overview of the field of public art. Consideration of viewpoints influencing evaluation, production, selection, and commissioning of works. (6 hrs. lab.) Letter grade only (A-F).

455. Internship in Visual Communications (3)
Prerequisites: Visual Communications major or consent of instructor.
Student Internship experience in selected studios, advertising agencies and in-house creative departments. Opportunity to work under supervision of professionals in the field for 6 hrs. per week. May be repeated to a maximum of 6 units in different semesters. (6 hrs. lab.)

454/544. Advanced Black and White Photography (3)
Prerequisites: ART 340.
Presentation of advanced printing techniques and darkroom skills. Includes printing chemistry, photographic papers and refined negative making as well as further exploration of the view camera.
Letter grade only (A-F). Course fee may be required. (5 hrs. lab.)

456. Photography Studio Specialties (3)
Prerequisites: ART 340, 444.
Designed to explore camera, laboratory techniques and professional practices as applied to studio work in photography. Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

457. Experimental Practices in Photography (3)
Prerequisites: ART 340.
Course work to generate experimental solutions to conceptual problems. Emphasis placed on contemporary approaches to the photograph and the exploration of new ideas for the development of photographic art.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.)

450A. Sculpture 4D: Intermedia/New Genres (3)
Prerequisites/Co-requisites: ART 360A or consent of instructor.
Exploration of media and strategies including performance, installation, video, electronic and other time-based practice with emphasis on participatory, relational, installation and performational concerns. Letter grade only (A-F). (6 hrs. lab.)

450B. Sculpture 4D: Intermedia/New Media (3)
Prerequisites/Co-requisites: ART 360A, 450A or consent of instructor.
Continuation of ART 450A. Exploration of media and strategies including performance, installation, video, electronic and other time-based practice with emphasis on newly developed and emergent media.
Letter grade only (A-F). (6 hrs. lab.)

451A-B. Advanced Ceramics (3-3)
Prerequisites: A: ART 343A or 343B. B: ART 451A.
Individual problems in ceramics.
Letter grade only (A-F).

453. Seminar in Ceramic Arts (3)
Prerequisite: Senior Ceramics major or consent of instructor.
Critical analysis of work of historical and contemporary ceramic artists; the changing role of ceramic art as it becomes part of the contemporary art mainstream.
Letter grade only (A-F).

454A-B. Advanced Wood (3-3)
Prerequisites: ART 354A and 354B.
Development of individual problems and expression in creation of wooden art/artist structures. Emphasis on exploring personal expression through focused study of chosen techniques and discussion of related wood issues and aesthetics.
Letter grade only (A-F).

458A-B. Advanced Metalsmithing/ Jewelry and Enameling (3-3)
Prerequisites: ART 357B, 358B or consent of instructor.
Individual problems in metalsmithing, jewelry, enameling and architectural metalwork and blacksmithing.
Letter grade only (A-F).

460A. Sculpture: Advanced (3)
Prerequisites: ART 130, 131, 145 or 349, 251; 6 units from AH 111A, 111B, or consent of instructor.
Within problem-solving assignments, students work with media and content of choice, exploring new materials and techniques. Utilizes strategies such as installations, site work, time-based art, and includes some theory and discussions on art-related issues.
Letter grade only (A-F).

460B. Sculpture: Advanced (3)
Prerequisites: ART 460A or consent of instructor.
Within problem-solving assignments, students work with media and content of choice, exploring new materials. Utilizes strategies such as installations, site work, time-based art, and includes some theory and discussions on art-related issues.
Letter grade only (A-F).

461. Sculpture from Observation: Advanced (3)
Prerequisites: ART 361, 362A and 362B.
Advanced study in large-scale observation-based figurative/representational sculpture. Emphasis on expressive content. Work in clay and plaster, armature and armature construction, oil and water-based techniques.
Letter grade only (A-F).

471A-B. Advanced Illustration (3-3)
Prerequisites: For ART 471A: ART 371B. For ART 471B: ART 471A.
Illustration in part from live models.
Letter grade only (A-F).
472./572. Storyboarding for Film and Television (3)
Prerequisites: ART 130, 181, 184, 271 or consent of instructor.
Storyboarding for television and feature film application. Focus on sequential structure of film including pacing and continuity related to storytelling. Discussion of camera movement, uses of storyboards. Emphasis on drawing skills needed to visually communicate ideas for entertainment industry.
(6 hrs. lab.) Letter grade only (A-F). Course fee may be required.

473./573. Seminar in Photo-Based Art (3)
Prerequisite: Advanced standing in Photography or consent of instructor.
Critical analysis of work by contemporary photo-based artists and investigation of relevant theoretical issues.
May be repeated to a maximum of 6 units with rotating topics in different semesters. Letter grade only (A-F).

475./575. Printmaking: Photo and Digital Processes (3)
Prerequisites: ART 120, 241, or 149, 181; 6 units from AH 111A, 111B. Instruction in the photo printmaking processes for lithography, etching, and silkscreen using digital and analog techniques to explore photographic and non-photographic imagery.
(6 hrs. lab.) Letter grade only (A-F).

476./576. Experimental Animation 1 (3)
Prerequisites: For 476: ART 130, 131, 181, 184. For 576: graduate student in Art or permission of instructor.
Investigation of a variety of basic animation techniques as alternatives to traditional hand-drawn character animation with emphasis on understanding movement, weight, timing, and sequential aesthetics.
Letter grade only (A-F). (6 hrs. lab)

478./578. Experimental Animation 2 (3)
Prerequisite: For ART 479: ART 470. For ART 578: ART 576.
Further investigation of principles and techniques of alternative approaches to traditional hand-drawn character animation learned in Art 478. Focus on weight, movement, timing, and time-based aesthetic strategies. Provides continued development of animating skills. Specific coordinating computer software is used.
Letter grade only (A-F). (6 hrs. lab)

480./580. Printmaking: Monotype/Monoprint (3)
Prerequisites: ART 130, 181, 184, 287; 5 units from AH 111A, 111B. Instruction in all aspects of monotype and monoprint form of printmaking as an expensive medium capable of diverse applications and linkages with other procedures and disciplines. Emphasis on extension and refinement of individual expression. Black and white and color.
(6 hrs. lab.) Letter grade only (A-F).

481. Advanced Drawing (3)
Prerequisite: ART 381.
Advanced problems and concepts in drawing designed to explore modes of representation and issues pertaining to contemporary drawing.
(6 hrs. lab.) Letter grade only (A-F).

482./582. Sequential Imagery (3)
Prerequisites: ART 223 or consent of instructor
Focuses on the book or magazine (electronic or print) as an art form and the image/word relationship within the context of sequential aesthetics. Addresses the editorial and visual issues of pacing, continuity, and closure.
Letter grade only (A-F). Course fee may be required. (6 hrs lab.)

483. Advanced Life Painting (3)
Prerequisite: ART 383.
Continued study in painting from the human figure with emphasis on pictorial structure, color and individual expression.
Course fee may be required. (6 hrs. lab.) Letter grade only (A-F).

484. Advanced Life Drawing (3)
Prerequisite: ART 384.
Continued study in drawing the human figure from observation with emphasis on structure, form, and composition, as well as individual expression.
Course fee may be required. (6 hrs. lab.) Letter grade only (A-F).

486. Media Design: Advanced Topics (3)
Prerequisites: ART 365 or 366 or equivalent and consent of instructor.
Advanced course developing student's ability to create interactive experiences. Students start building smart interactions within nonlinear environments and/or narrative structures.
Letter grade only (A-F). (5 hrs. lab)

487. Advanced Painting (3)
Prerequisite: ART 387.
Continued study in studio painting, exploring advanced modes of pictorial structure with emphasis on individual expression.
(6 hrs. lab.) Letter grade only (A-F).

489. Special Topics in Visual Art (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in the visual arts will be selected for intensive study.
May be repeated to a maximum of 12 units with different topics. Topics will be announced in the Schedule of Classes.

490. Special Problems in Studio Art (1-3)
Prerequisites: Consent of instructor.
Topics of current interest in the visual arts selected for intensive study. Topics announced in the Schedule of Classes.
Letter grade only (A-F). May be repeated to a maximum of 12 units with different topics. (6 hrs. Lab)

491A. Ceramics: Senior Project (1)
Prerequisite: ART 451A or 451B or consent of instructor.
Planning, preparation, completion, and photographic slide documentation of a creative exhibition and written thesis as approved by faculty.
Should be taken in last semester before graduation. Required of all BFA ceramics majors. Letter grade only (A-F). May be repeated to a maximum of 2 units.

491B. 3-D Media-Senior Project (1)
Prerequisite: 3-D Media major or consent of instructor.
Organizing, compiling, and photographing (35mm slides) a creative exhibition of their work. Exhibition culminates with written thesis with faculty approval.
Should be taken in the last semester before graduation. Required of all 3-D Fiber, Wood, Metal and Integrated Media majors. Credit/ No Credit grading only. May be repeated to a maximum of 2 units in the same semester.

491C. Photography – Senior Project (1) F,S
Planning, preparation, completion, and photographic slide documentation of a creative exhibition and written thesis as approved by faculty.
Should be taken in the last semester before graduation. Required of all Photography majors. Credit/No Credit grading only. May be repeated to a maximum of 2 units.

491F. Sculpture Senior Project (1)
Prerequisites: Senior Sculpture major; consent of instructor.
Students will complete their work, organize an exhibition and write an Artist's Statement.
Required by all Sculpture majors. Should be taken in the final semester of a student's BFA program. Credit/No Credit grading only.
491G. Drawing and Painting: Senior Project (1)
Prerequisite: ART 496A. Corequisite: ART 496B.
Planning and installation of a public exhibition of creative work completed in ART 456 A-B.
Credit/No credit grading only. (2 hrs. lab.)

491P. Printmaking: Senior Project (1)
Planning, preparation, completion, and photographic slide documentation of a creative exhibition and a written expanded artist’s statement as approved by faculty. Should be taken in the last semester before graduation. Required of all Printmaking majors. Credit/No Credit grading only. May be repeated to a maximum of 2 units.

492F. Concentrated Studies in Life Drawing (3)
Prerequisites/Corequisites: ART 354 or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in life drawing.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. Course fee may be required. (5 hrs. lab.)

492G. Concentrated Studies in Abstract Painting (3)
Prerequisites/Corequisites: ART 317 or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in abstract and nonobjective painting and drawing.
May be repeated to a maximum of 3 units in the same semester and 9 units in different semesters. (6 hrs. lab.) Letter grade only (A-F).

492J/592Z. Concentrated Studies in Life Painting (3)
Prerequisites/Corequisites: ART 338 or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in painting the human figure. A more open relationship in attitudes and processes of working from the figure in class and total self-direction on work done outside the class.
Letter grade only (A-F). May be repeated to a maximum of 3 units in the same semester and 9 units in different semesters. Course fee may be required. (5 hrs. lab.)

495. Field Studies in Art (1-6)
Independent work with an instructor of student’s choice, usually outside area of specialization.
Department Chair or Undergraduate Advisor/Graduate Advisor approval, restricted to undergraduate and graduate art majors. (2-12 hrs. lab.) Letter grade only (A-F).

496A. BFA Capstone: Drawing and Painting (3)
Prerequisites: Drawing and Painting major. Completion of 6 to 12 units of required 400 level classes in Drawing and Painting. Extensive work with faculty supervision on individual problems in drawing and/or painting. First of two sequential semesters, limited to three units each semester, totaling 6 units as the culmination of a student’s BFA degree program in Drawing and Painting. Letter grade only (A-F). (6 hours lab.)

496B. BFA Capstone: Drawing and Painting (3)
Prerequisite: ART 496A. Extensive work with faculty supervision on individual problems in drawing and/or painting. Second of two sequential semesters, limited to three units each semester, totaling 6 units as the culmination of a student’s BFA degree program in Drawing and Painting.
Letter grade only. (6 hours lab.)

499A. Special Studies in Ceramics (3)
Prerequisite: Ceramics major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in ceramics.
May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (5 hrs. lab.) Letter grade only (A-F).

499B. Special Studies in Wood (3)
Prerequisite: ART 354B or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems using wood as the media.
May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (5 hrs. lab.)

499D. Special Studies in Drawing (3)
Prerequisite: ART 351; Drawing and Painting Major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in drawing.
May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (5 hrs. lab.)

499F. Special Studies in Illustration (3)
Prerequisite: Illustration major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in illustration or biomedical art.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (6 hrs. lab.)

499J. Special Studies in Metalsmithing and Jewelry (3)
Prerequisite: ART 458A or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in metalsmithing and jewelry.
Letter grade only (A-F). Course fee may be required. May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (6 hrs. lab.)

499K. Special Studies in Painting (3)
Prerequisites: Drawing and Painting Major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in drawing and/or painting.
Letter grade only (A-F). May be taken for a maximum of 3 units in the same semester and a maximum of 9 units in different semesters. (5 hrs. lab.)

499M. Special Studies in Life Sculpture (3)
Prerequisite: Sculpture major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in sculpture.
Letter grade only (A-F). May be repeated to a maximum of 3 units in the same semester and 9 units in different semesters. (6 hrs. lab.) Course fee may be required.

499N. Special Studies in Fiber and Mixed Media (3)
Prerequisite: 3-2 Media major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in textile design.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. (6 hrs. lab.)

499O. Special Studies in Studio Sculpture (3)
Prerequisites: Sculpture major or consent of instructor. Opportunity for extensive work with faculty supervision on individual problems in sculpture.
May be repeated to a maximum of 6 units in the same semester and a total of 9 units in different semesters. Letter grade only (A-F). (8 hours lab.)
499P. Special Studies in Art Education (3)
Prerequisite: Art Education major or consent of instructor.
Opportunity for extensive work with faculty supervision on individual problems in art education.
May be repeated to a maximum of 6 units in the same semester and a total of 9 units in different semesters. Letter grade only (A-F). (6 hrs. lab.)

499R. Special Studies in Printmaking (3)
Prerequisite: Printmaking major or consent of instructor.
Opportunity for extensive work with faculty supervision on individual problems in printmaking.
May be repeated to a maximum of 6 units in the same semester and a total of 9 units in different semesters. Letter grade only (A-F). (6 hrs. lab.)

499S. Special Studies in Visual Communications Design (3)
Prerequisite: Visual Communications major or consent of instructor.
Opportunity for extensive contract work with faculty supervision on problems in visual communications design.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and a total of 9 units in different semesters. (6 hrs. lab.)

499V. Special Studies in Art Photography (3)
Prerequisites: ART 444 and Photography Major, or consent of instructor.
Opportunity for extensive work, with faculty supervision, on individual problems in photography as an art form.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and a total of 9 units in different semesters. Course fee may be required. (6 hrs. lab.)

GRADUATE LEVEL

506A/406A. Digital Imagination for the Arts (3)
Prerequisites: ART 145, 340, or consent of instructor.
Examination of digital imaging through Adobe Photoshop software. Emphasis on relationship of digital imaging to photography. Exercises to develop skills, strategies, and fluency for working in digital media. Concentration on theory of media and representation as well as individual projects.
Letter grade only (A-F). (6 hrs. lab.) Course fee may be required. May be repeated to a maximum of 6 units in different semesters.

506B/406B. Advanced Digital Imagination for the Arts (3)
Prerequisites: ART 406A, 444, or consent of instructor.
Exploration of theory and practice of digital imaging and advanced techniques. Emphasis on multimedia and individual projects.
Letter grade only (A-F). (6 hrs. lab.) Course fee may be required. May be repeated to a maximum of 9 units in different semesters.

508/408. Historical Perspectives in Contemporary Art Education (3)
Examines historical and philosophical foundations of art education globally from antiquity to the present, emphasizing developments in America, social, political, and economic factors; theoretical developments; notable theoreticians are explored in relation to contemporary art educational practice.
Letter grade only (A-F).

509A-B. Research in Art Education (2-2)
Prerequisite: Art Education major or consent of instructor.
Advanced individual graduate problems in art education with projects related to specific learning situations.
Letter grade only (A-F). May be repeated to a maximum of 9 units in different semesters.

512/412. Aesthetic Theories and Art Education (3)
Past and current philosophical writings of aestheticians, critics, artists, and art educators will be investigated with theoretical, practical, and cross-cultural implications for the arts educator.
Letter grade only (A-F).

514/414. Documentary Photography (3)
Prerequisites: ART 440, 444, or consent of instructor.
History, theory, practice, and production of still documentary photographic works with emphasis on the photograph as an instrument for social influence and change.
Letter grade only (A-F). Course fee may be required. (6 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.

516/416. Animation 3 (3)
Prerequisites: For 416: ART 302. For 516: ART 392 or consent of instructor.
Pursuit of advanced skills in traditional hand-drawn 2D animation principles and techniques that allow students to continue towards professional standards. Emphasis will be on character performance and acting, directing and film making, and creating a professional reel.
Letter grade only (A-F). (6 hrs. lab.)

517/417. Animation 4 (3)
Prerequisites: For 417: ART 416. For 517: ART 516 or permission of instructor.
Further development in advanced traditional hand-drawn 2D animation principles and techniques that allow students to continue towards professional standards. Focus will be on completion of short animated projects for inclusion on a professional animation reel.
Letter grade only (A-F).

526/426. Computer Animation 1 (3)
Prerequisite: ART 392 or consent of instructor.
Introduction to animating with 3D computer animation software. Students will explore basic three-dimensional computer generated animation, including modeling, rigging, lighting, texturing and camera set-up with emphasis on character animation, integration of elements within the animation process will be investigated.
Letter grade only (A-F). (6 hours lab)

527/427. Computer Animation 2 (3)
Prerequisite: For 427: ART 426. For 527: ART 526
Continued investigation of 3D computer generated animation using industry standard computer software. Focus will be on advanced character animation with an emphasis on character performance and advanced computer animation techniques.
Letter grade only (A-F). (6 hours lab)

536A/436A. Sculpture/4D: Video Art (3)
Historical/theoretical and practical/technical introduction to digital video and other art practices involving digital media.
Letter grade only (A-F). (6 hrs. lab.) Course fee may be required.

536B/436B. Sculpture/4D: Video Art (3)
Prerequisite: ART 436A or 536A.
Continuation of ART 536A with more advanced projects, introduction of more advanced software and equipment, and alternative modes of display.
Letter grade only (A-F). (6 hrs. lab.) Course fee may be required. May be repeated to a maximum of 9 units in different semesters.

540/440. Art in Public Places: Theory and Practice (3)
Prerequisites: ART 130, 131, and 6 units of Art History selected from AH 111A, 111B, or consent of instructor.
Exploration of theory and practice of developing, proposing and producing art installations and commissions; temporary and permanent works for the public sphere. Historical overview of the field of public art.
Consideration of viewpoints influencing evaluation, production, selection, and commissioning of works.
Letter grade only (A-F). (6 hrs. Lab.) May be repeated to a maximum of 9 units in different semesters.

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554A. Advanced Ceramics – Graduate (3)
Prerequisite: ART 551B.
Opportunity for beginning graduate students to do research employing various ceramics materials, processes and visual solutions in preparation for a more narrow and concentrated study.
Letter grade only (A-F). (6 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.

554B. Wood – Graduate (3,3)
Prerequisites: ART 454B or consent of instructor.
Development of individual problems and expression in the creation of wooden artwork structures. Emphasis on the exploration of personal expression through the creation of unique pieces and the discussion of related wood issues and aesthetics.
Letter grade only (A-F). (5 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.

556A. Metalsmithing, Jewelry and Enameling (3)
Prerequisite: 3-D Media major or consent of instructor.
Individual graduate level studio projects involving investigation of metallics, processes and visual solutions in preparation for more concentrated study in metalsmithing, jewelry, enameling, or architectural metalwork and blacksmithing.
Letter grade only (A-F). Course fee may be required. May be repeated to a maximum of 9 units in different semesters. (6 hrs. lab.)

556B. Metalsmithing, Jewelry and Enameling (3)
Prerequisite: 3-D Media major or consent of instructor.
Selection of a specific area of concentration in metalsmithing and jewelry, enameling, or architectural metalwork and blacksmithing; focus on creative objectives based on a projectd theme.
Letter grade only (A-F). Course fee may be required. May be repeated to a maximum of 9 units in different semesters. (6 hrs. lab.)

564A. Advanced Wood Studio – Graduate (3,3)
Prerequisites: ART 554B or consent of instructor.
Development of individual skill, technique, and concepts through the exploration of unique and personal language in wood. Creation of body of work supported by research projects on related work and concepts in the field.
Letter grade only (A-F). (6 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.

572/472. Storyboarding for Film and Television (3)
Prerequisites: ART 130, 181, 184, 271 or consent of instructor.
Storyboarding for television and feature film applications. Focus on sequential structure of film including pacing and continuity related to storytelling. Discussion of camera movement, use of storyboards. Emphasis on drawing skills needed to visually communicate ideas for entertainment industry.
Letter grade only (A-F). May be repeated to a maximum of 9 units in different semesters. Course fee may be required. (6 hrs. lab.)

573/473. Seminar in Photo-Based Art (3)
Prerequisite: Advanced standing in Photography or consent of instructor.
Critical analysis of work by contemporary photo-based artists and investigation of relevant theoretical issues.
Letter grade only (A-F). May be repeated to a maximum of 9 units with different artists in different semesters.

575/475. Printmaking: Photo and Digital Processes (3)
Prerequisites: ART 130, 241, or 149, 181; 6 units from AH 111A, 111B.
Instruction in the photo printmaking processes for lithography, etching, and silkscreen using digital and analog techniques to explore photographic and non-photographic imagery.
Letter grade only (A-F). (6 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.

576/476. Experimental Animation 1 (3)
Prerequisites: For 476: ART 130, 131, 181, 184. For 576: graduate student in Art or permission of instructor.
Investigation of a variety of basic animation techniques as alternatives to traditional hand-drawn character animation with emphasis on understanding movement, weight, timing, and sequential aesthetics.
Letter grade only (A-F). (6 hours lab)

578/478. Experimental Animation 2 (3)
Prerequisite: For ART 478, ART 476. For ART 578: ART 576.
Further investigation of principles and techniques of alternative approaches to traditional hand-drawn character animation learned in ART 576. Focus on weight, movement, timing, and time-based aesthetic strategies. Provides continued development of animating skills. Specific coordinating computer software is used.
Letter grade only (A-F). (6 hours lab)

580/480. Printmaking: Monotype/Monoprint (3)
Prerequisites: ART 130, 181, 184, 287; 5 units from AH 111A, 111B.
Instruction in the aspects of the monotype and monoprint form of printmaking as an expressive medium capable of diverse applications and linkages with other processes and disciplines. Emphasis will be on the extension and refinement of personal expression. In black and white and color.
Letter grade only (A-F). (6 hrs. lab.) May be repeated to a maximum of 9 units in different semesters.
582/482. Sequential Imagery (3)
Prerequisites: ART 223 or consent of instructor.
Focuses on the book or magazine (electronic or print) as an art form and the image/word relationship within the context of sequential aesthetics. Addresses the editorial and visual issues of pacing, continuity, and closure.
Letter grade only (A-F). May be repeated to a maximum of 9 units in different semesters. Course fee may be required.

583. Advanced Life Graduate Painting (3)
An intensive studio course in painting from the model for graduate students.
Letter grade only (A-F). Course fee may be required. May be repeated to a maximum of 9 units in different semesters. (6 hrs. lab.)

589. Graduate Studies: Special Topics in Visual Art (1-3)
Prerequisites: Consent of instructor.
Topics of current interest in the visual arts selected for intensive study.
Topics announced in the Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 12 units with different topics.

590. Graduate Studies: Special Problems in Studio Art (1-3)
Prerequisites: Consent of instructor.
Special topics of current interest in studio art will be selected for intensive study.
Letter grade only (A-F). May be repeated to a maximum of 12 units with different topics. Topics will be announced in the Schedule of Classes. (2-6 hrs. lab.)

A. Visiting Artists

5922. Graduate Concentrated Studies in Life Painting (3)
Opportunity for extensive work with faculty supervision on individual problems in painting the human figure. A more open relationship in attitudes and processes of working from the figure in class and total self-direction on work done outside class.
Letter grade only (A-F). May be repeated to a maximum of 3 units in the same semester and 9 units in different semesters. Course fee may be required. (6 hrs. lab.)

597A. Graduate Studies: Ceramics (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Ceramics. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597B. Graduate Studies: Wood (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Wood. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597D. Graduate Studies: Drawing (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Drawing. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597F. Graduate Studies: Illustration/Animation (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Illustration/Animation. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597J. Graduate Studies: Metal (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Metal. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. Course fee may be required. (6 hrs. lab.)

597K. Graduate Studies: Painting (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Painting. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597L. Graduate Studies: Life Drawing and Painting (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Life Drawing and Painting. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. Course fee may be required. (6 hrs. lab.)

597M. Graduate Studies: Life Sculpture (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Life Sculpture. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. Course fee may be required. (6 hrs. lab.)

597N. Graduate Studies: Fiber (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Fiber. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597O. Graduate Studies: Sculpture/4D (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Sculpture/4D. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)

597R. Graduate Studies: Printmaking (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Printmaking. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab.)
Art Courses (ART)

597S. Graduate Studies: Visual Communication Design (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Visual Communication Design. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

597V. Graduate Studies: Photography (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Variable topics course within discipline of Photography. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598A. Graduate Studies: Advanced Ceramics (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597A.
Variable topics course for advanced graduate study within discipline of Ceramics. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598B. Graduate Studies: Advanced Wood (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597B.
Variable topics course for advanced graduate study within discipline of Wood. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598D. Graduate Studies: Advanced Drawing (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597D.
Variable topics course for advanced graduate study within discipline of Drawing. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598F. Graduate Studies: Advanced Illustration/Animation (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597F.
Variable topics course for advanced graduate study within discipline of Illustration/Animation. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598J. Graduate Studies: Advanced Metal (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597J.
Variable topics course for advanced graduate study within discipline of Metal. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598K. Graduate Studies: Advanced Painting (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597K.
Variable topics course for advanced graduate study within discipline of Painting. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598L. Graduate Studies: Advanced Life Drawing and Painting (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597L.
Variable topics course for advanced graduate study within discipline of Life Drawing and Painting. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598M. Graduate Studies: Advanced Life Sculpture (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597M.
Variable topics course for advanced graduate study within discipline of Life Sculpture. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598N. Graduate Studies: Advanced Fiber (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597N.
Variable topics course for advanced graduate study within discipline of Fiber. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598O. Graduate Studies: Advanced Sculpture4D (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597O.
Variable topics course for advanced graduate study within discipline of Sculpture4D. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598R. Graduate Studies: Advanced Printmaking (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597R.
Variable topics course for advanced graduate study within discipline of Printmaking. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598S. Graduate Studies: Advanced Visual Communication Design (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597S.
Variable topics course for advanced graduate study within discipline of Visual Communication Design. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)

598V. Graduate Studies: Advanced Photography (3)
Prerequisites: Graduate M.F.A. student and 12 units ART 597V.
Variable topics course for advanced graduate study within discipline of Photography. Studio, activity, critique, and discussion course with focus and assignments changing each semester.
Letter grade only (A-F). May be repeated to a maximum of 12 units; 9 units in the same semester with different instructors. (6 hrs. lab)
599. Graduate Studies: Special Studio (3)
Prerequisites: Graduate MFA Student and consent of Instructor and
counselor of Department of Art Graduate Advisor
Specialized graduate studio projects, with faculty supervision, in a
specific discipline.
Letter grade only (A-F). May be repeated to a maximum of 9 units
with same topic in the same semester. Area will be designated by
letter at time of registration. (6 hrs lab)
A. Ceramics
B. Wood
D. Drawing
F. Illustration/Animation
J. Metal (course fee may be required)
K. Painting
L. Life Drawing and Painting (course fee may be required)
M. Life Sculpture (course fee may be required)
N. Fiber
O. Sculpture/ED
R. Printmaking
S. Visual Communication Design
V. Photography (course fee may be required)

601A-B. Seminar in Art Education (3-3)
Prerequisite: Graduate student in Art Education or consent of
instructor.
Special studies, research and evaluation of the role of the art
teacher.
ART 601A is required for the M.A. in Art Education; ART 601B may
be required by the student's M.A. committee. Letter grade only (A-F).

649. Seminar in Drawing and Painting (3)
Advanced critical study related to contemporary drawing and
painting with faculty peers and visiting artists. Additional activities
include research, preparation and presentations pertaining to
contemporary professional practice within the changing art world.
Limit to 3 units in one semester. May be repeated to a maximum of
12 units in different semesters. Letter grade only (A-F).

651. Seminar in Ceramic Art (3)
Prerequisite: Graduate student in Ceramics or consent of instructor.
Critical analysis of work of historical and contemporary ceramic
artists, the changing role of ceramic art as it becomes part of the
contemporary art mainstream.
May be repeated to a maximum of 12 units with different artists in
different semesters. Letter grade only (A-F).

680. Graduate Interdisciplinary Critique (3)
Culottes and discussion forum for graduate students in all areas of
studio practice, and from all Department of Art programs. Emphasis
on development of critical discussion and writing skills. Group
meetings and individual meetings with instructor.
Letter grade only (A-F). May be repeated to a maximum of 9 units in
different semesters. Not open for credit to students with credit in ART
591.

681. Graduate Studies: Art Theory/Criticism (3)
Prerequisite: Graduate M.F.A. student or consent of instructor
Seminar involving selected reading and writing concerning topics
relevant to student's specific discipline on the visual arts with an
opportunity for interdisciplinary discussion.
Letter grade only (A-F). Not open for credit to students with credit in
ART 591A.

682. Graduate Studies: Professional Practices for Studio Art (3)
Prerequisite: Graduate M.F.A. student or consent of instructor.
Seminar involving professional preparation for studio artists stressing
practical concerns as well as current trends in art practices, theory
and criticism.
Letter grade only (A-F). Not open for credit to students with credit in
ART 590B.

683. Graduate Studies: Image as Text (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Seminar focusing on issues of readability, signification meaning and
ramifications of the construction and organization of visual imagery
with emphasis on visual communications applications.
Letter grade only (A-F).

Communication (3)
Prerequisites: Graduate M.F.A. student or consent of instructor.
Seminar involving professional preparation for illustrators,
graphic designers, and individuals interested in entering visual
communications fields.
Letter grade only (A-F).

690M. 3-D Graduate Seminar (3)
Graduate seminar for 3D students. Examination of media, concerns, strategies relevant to the spectrum of contemporary
three-dimensional art production. Includes critique of student work,
readings, discussion and written assignments.
May be repeated to a maximum of 3 units in one semester and 9
units in different semesters. Letter grade only (A-F).

692. Project Exhibition (3)
Prerequisite: Advancement to Candidacy and a registration in ART
698 or 699. Open only to M.A. and M.F.A. candidates with Project
Statement approval, consent of their graduate committee and an
assigned exhibition date.
Planning, preparation, and installation of a public exhibition of
creative work done for ART 698 or 699.
Letter grade only (A-F). May be repeated to a maximum of 6 units in
different semesters.

693. Teaching Internship (3)
Opportunity to work with full-time Art faculty mentor on course
preparation and instruction. Required for eligibility for Graduate
Teaching Associate positions.
Restricted to graduate art majors. Letter grade only (A-F). May be
repeated to a maximum 6 units. (6 hrs. lab.)

694. Graduate Studies: Directed Studio (1)
Independent studies in creative studio. Department Chair or
Graduate Advisor approval. Restricted to graduate art majors. Student
must enroll in three sections concurrently. Nine units required for
M.F.A. degree. No more than 5 units may be applied to M.A. degree.
Letter grade only (A-F). May be repeated to a maximum of 12 units in
the same semester.

695. Graduate Studies: Field Problems (1-6)
Opportunity to study artistic monuments, objects, theories,
techniques or literature of appropriate off-campus locations.
Department Chair or Graduate Advisor approval, restricted to
graduate art majors.
Letter grade only (A-F). May be repeated to a maximum of 12 units in
different semesters. (2-12 hrs. lab.)

697. Graduate Studies: Directed (1-3)
Independent studies in technical and/or historical aspects of art.
Department Chair or Graduate Advisor approval, restricted to
graduate art majors.
Letter grade only (A-F). May be repeated to a maximum of 12 units in
the same semester. (2-6 hrs. lab.)

699A. Art Education Thesis or Project (1-6)
Prerequisite: Advancement to Candidacy and an approved Thesis or
Project Statement.
Examination and completion of an approved thesis, or project, project
report, documentation, oral and comprehensive exams. Open only to
Art Education students. Required of all candidates for the M.A. in
Art, specialization in Art Education.
Letter grade only (A-F). May be repeated to a maximum of 6 units in
the same semester.

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Art Courses (ART)

688B. Studio Project (1-6)
Prerequisites: Advancement to Candidacy and an approved project statement. Execution and completion of an approved Studio Project and Project Report for the MA degree. Open only to Studio Art students. Required of all candidates for the MA in Art. Specialization in Studio Art. Letter grade only (A-F).
May be repeated to a maximum of 6 units in the same semester.

699. Graduate Studios: MFA Project (2)
Prerequisites: MFA Art Student, Advancement to Candidacy and an approved Project Statement.
Execution and completion of a Studio Project and Project Report for the M.F.A. degree. The student must enroll in three sections concurrently. To be taken with at least three M.F.A. committee members for a total of 6 units in the final semester of study. No more than 6 credits may be applied to the M.F.A. degree.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester.

Art History Courses (AH)

LOWER DIVISION

111A. Foundation Art History I (3)
Prerequisites: A General Education Foundation class.
Chronological survey of art as an integral part of Western Culture from pre-History through the Middle Ages.
Not open for credit to students with credit in AH 115B.

111B. Foundation Art History II (3)
Prerequisites: A General Education Foundation class.
Chronological survey of art as an integral part of Western Culture from the Middle Ages to the 19th century.
Not open for credit to students with credit in AH 115C.

111C. Foundation Art History III (3)
Prerequisites: AH 111A or AH 111B and a General Education Foundation class.
Basic theoretical considerations about art and its relationship to society in both Western and non-Western cultures.
Not open for credit to students with credit in AH 115A.

Art History Courses (AH)

116. Foundation Art History: Arts of Islamic Regions (3)
Survey of architecture and visual culture in Islamic cultures from the 7th century to the present in North Africa, Spain, Southeast Asia, and the Islamic diaspora.
Letter grade only (A-F).

UPPER DIVISION

311. Issues in Art History: Theory and Practice (3)
Prerequisites: AH 111A or 111B, or consent of instructor.
Theoretical and practical considerations in the discipline of art history, specifically issues relating to art interpretation, classification, valuation, and circulation.
Letter grade only (A-F).

364. History of Ceramics 1900 to Present (3)
Survey of ceramic art in the United States from 1900 to the present. Consideration of American ceramic art within the context of contemporary art history; and of significant ceramic works in relation to modern and postmodern movements in art.
Letter grade only (A-F).

365. History of Prints and Drawings (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Historical survey of prints and drawings, with emphasis on technical and stylistic developments and on the role played by these media in relation to other arts through the 20th century.
Not open for credit to students with credit in ART 365. Letter grade only (A-F).

400/500. 19th Century Photography (3)
Prerequisites: AH 111B or consent of the instructor.
Examination of 19th century photography.
Letter grade only (A-F).

401/501. American Art to 1900 (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Survey of American art from the time of European settlement to roughly 1900 with special focus on cultural, political, and historical contexts. Combines studio and lecture with discussion of primary and secondary readings.
Letter grade only (A-F).

402. The Rise of Landscape Painting (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Examination of emergence and transformation of landscape painting in Europe and America between 1750 and 1850 with special focus on cultural, political, and historical contexts. Combines studio and lecture with discussion of primary and secondary readings.
Letter grade only (A-F).

408/508. Early Christian and Byzantine Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Architecture, mosaics, and sculpture of Rome, Ravenna and Constantinople from the decline of the Roman Empire to the end of the Byzantine era.
Not open for credit to students with credit in ART 408 or 598B. Letter grade only (A-F).

409/509. Romanesque Art (3)
Prerequisites: AH 111A, or consent of instructor.
Arts of Northern Europe from Merovingian through the Romanesque period.
Not open for credit to students with credit in ART 409 or 509C. Letter grade only (A-F).

410/510. Gothic Art (3)
Architecture, sculpture, and painting in Western Europe from the 12th through the 14th centuries, with special attention to the construction and decoration of the great cathedrals, and to the development of
new approaches to style and content in the figural art of the 14th-century Italy.
Not open for credit to students with credit in ART 410 or 598D. Letter grade only (A-F).

411/511. History and Criticism of Photography (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
History of photography from its origins to contemporary developments in the twentieth century. Critical and philosophical approaches to the photographic medium.
Not open for credit to students with credit in ART 411 or 511. Letter grade only (A-F).

416/516. Greek Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Survey of Greek Art from beginnings in Aegean period through late Hellenistic period. Key monuments of architecture, sculpture, painting, vase painting, and so-called minor arts discussed relative to contemporary theories, criticism, and history. Focus on techniques and materials of various arts.
Not open for credit to students with credit in ART 416 or 598E. Letter grade only (A-F).

417/517. Roman Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Survey of Italian arts before the Romans, including indigenous art of the Italic peoples and the Etruscans, and Roman Art from early Republic to Age of Constantine. Discussion of major art forms of architecture, painting, sculpture and so-called minor arts.
Not open for credit to students with credit in ART 417 or 598L. Letter grade only (A-F).

423/523. Early Renaissance Art in Italy (3)
Examination of stylistic and technical developments of fifteenth-century Italian painting, sculpture, and architecture, as well as the interaction of natural, social, and religious developments with visual arts. Special attention to the revival of classicism, and influence of private patrons.
Not open for credit to students with credit in ART 423 or 598F. Letter grade only (A-F).

424/524. High Renaissance Art in Italy (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of sixteenth-century Italian painting, sculpture, and architecture, emphasizing that of Florence, Venice, and Rome. Historical, cultural, religious, and theoretical framework. Special attention to works by a handful of major artists (Leonardo da Vinci, Michelangelo, Raphael, Titian, and the Manierists).
Not open for credit to students with credit in ART 424 or 598G. Letter grade only (A-F).

425/525. Northern Renaissance Painting (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of artistic developments in Northern Europe, particularly Flanders, France, and Germany, from the 14th century through 16th-century. Historical, cultural, religious and theoretical framework. Special attention to iconography, and the changing role of the artist in society.
Not open for credit to students with credit in ART 425 or 598H. Letter grade only (A-F).

426/526. Baroque Art in Spain, the Netherlands, and England (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of intertwined political and artistic situations in Netherlands (Flanders and Holland), England, Spain during seventeenth and eighteenth centuries. Emphasis on relationship between Rubens and Velasquez, contrast between Rubens and Rembrandt, and Flemish influence in England.
Not open for credit to students with credit in ART 426 or 598I. Letter grade only (A-F).

427/527. Baroque Art in Italy, France, and Germany (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Explores Birth of Baroque in Rome, and role of Counter-Reformation in shaping artistic genres in Italy and France in early 17th century. Covers influence of Vernacular court of “Sun King,” Louis XIV, in late 17th and early 18th centuries, especially in independent Neoclassical states.
Not open for credit to students with credit in ART 427 or 598K. Letter grade only (A-F).

430/530. Introduction to Curatorial Practices (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Study of contemporary art display theory/practice including exhibition typologies, curatorial models, and recent transformations in museums, galleries and the art market. Designed for Museum and Curatorial Studies Certificate students and others interested in studying museum practices within a broader context. Not open for credit to students with credit in AH 435B/535B. Letter grade only (A-F).

431/531. History of Museums and Exhibitions (3)
Prerequisites: AH 111A, 111B or by consent of student advisor and instructor. Study of history and how displays reflect social and cultural conditions and political ideologies. Attention to contemporary exhibitions, and recent transformations in the field. Class is required of students seeking Museum Studies Certificate and those pursuing MA with emphasis in Museum Studies. Not open for credit to students with credit in ART 435; AH 435, 435A, or 535A. Letter grade only (A-F).

436/536. Neo-Classicism to Romanticism, 1789-1850 (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of Neo-Classicism, Realism, Romanticism, photography, and the academic tradition in art and culture of Europe from 1789-1850. Not open for credit to students with credit in ART 436 or 598M. Letter grade only (A-F).

437/537. Impressionism to Post-Impressionism, 1850-1900 (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Analysis of the development of Impressionism and Post-Impressionism in France from 1850 to 1900. Not open for credit to students with credit in ART 437 or 598N. Letter grade only (A-F).

438/538. Art of Early to Mid Twentieth Century (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of key developments, trends, movements of the period including Abstract, Non-Objective art, Expressionism, Dada, and Surrealism. Letter grade only (A-F). Not open for credit to students with credit in ART 438 or 598P.

439/539. Art of Mid to Late Twentieth Century (3)
Prerequisites: AH 111A, 111B, or consent of instructor. Examination of key developments, trends, movements of the period including Pop Art, Happenings, Minimal Art, Art and Technology, Environmental Concept, Performance and Video Art. Letter grade only (A-F). Not open for credit to students with credit in ART 439 or 598Q.

441/541. Contemporary Art in Context (3)
Prerequisites: AH 111A, 111B, or consent of instructor. International survey focusing on developments in art from late twentieth century to present. Examination of precedents, traditions, legacies behind current art. Consideration of critical/theoretical issues and factors influencing production and reception of current art. Letter grade only (A-F).

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444/544. History of Graphic Design (3)
Prerequisites: For AH 444: AH 111A and 111B, or consent of instructor. For AH 544: Graduate student in Department of Art, or consent of instructor.

Theoretical approach to Graphic Design history, with consideration of pioneering designers, movements, and cultural, social, political and technological influences in the evolution of graphic design.
Not open for credit to students with credit in AH 366. Letter grade only (A-F).

448/548. Western Art Theory and Criticism to the Mid-Nineteenth Century (3)
Prerequisites: For 448: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 548: graduate student in Art History or consent of instructor.

A text-based examination of western art theory and criticism up to the mid-nineteenth century.
Letter grade only (A-F). Not open for credit to students with credit in AH 326.

449/549. Western Art Theory and Criticism Mid-Nineteenth to Mid-Twentieth Century (3)
Prerequisites: For 449: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 549: graduate student in Art History or consent of instructor.

A text-based examination of western art theory and criticism from the mid-nineteenth to mid-twentieth centuries. Not open for credit to students with credit in AH 309.
Letter grade only (A-F).

450/550. Western Art Theory and Criticism Mid-Twentieth Century to Present (3)
Prerequisites: For 450: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 550: graduate student in Art History or consent of instructor.

A text-based examination of western art theory and criticism from the mid-twentieth century to the present.
Letter grade only (A-F). Not open for credit to students with credit in AH 310.

455/555. Traditional Art of Africa: A Thematic Approach (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Exploration from a Western perspective of the conceptual, expressive, and aesthetic aspects of traditional African art as related to its cultural context and to Western concepts of art. Focus on West Africa.
Not open for credit to students with credit in ART 455 or 598R. Letter grade only (A-F).

456/556. American Indian Art: Western Perspectives (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Exploration from a Western perspective of the historically various and changing frames of reference surrounding perception, interpretation, and consideration of Native American art through focus on selected traditions.
Not open for credit to students with credit in ART 456 or 598S. Letter grade only (A-F).

457/557. Pre-Columbian Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

A survey of art and architecture in Mesoamerica and the Andean region of South America from about 1000 BC to the Spanish conquest. Special attention will be focused on the social, political and economic contexts of objects and architecture from this period, as well as on the research methods and theoretical assumptions of scholars investigating this field.
Letter grade only (A-F).

458/558. Modern Latin American Art (3)
Prerequisites: AH 111B or consent of instructor.

Investigation of developments in visual culture in Latin America from the late-18th century to the mid-20th century, with special emphasis on artists in Argentina, Brazil, Colombia, Mexico, Uruguay, and Venezuela.
Letter grade only (A-F).

459/559. Contemporary Latin American Art (3)
Prerequisites: AH 111B or consent of instructor.

Investigation of developments in visual culture in Latin America from the mid-20th century to the present, with special emphasis on artists in Argentina, Brazil, Chile, Colombia, Cuba, Mexico, and Venezuela, as well as Latin/Latino artists.
Letter grade only (A-F).

465/565. Ancient Art of the Near East (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Near Eastern, Egyptian, and Aegean art.
Not open for credit to students with credit in ART 465 or 598U. Letter grade only (A-F).

466/566. Buddhist Art of India and S.E. Asia (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Formation and development of Buddhist art in India and subsequent rearticulations in Cambodia, Thailand, and Indonesia examined.
Not open for credit to students with credit in ART 466 or 598V. Letter grade only (A-F).

467/567. Hindu and Islamic Art of India (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Formation and development of Buddhist art in India and the genesis, as well as transformation, of Islamic art of India compared to pan-Islamic characteristics will be examined.
Not open for credit to students with credit in ART 467 or 598W. Letter grade only (A-F).

468/568. Early Chinese Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Formation and development of Chinese art from third millennium to 10th century A.D.
Not open for credit to students with credit in ART 468 or 598X. Letter grade only (A-F).

469/569. Later Chinese Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.

Development of Chinese art from the 11th century A.D. through the culmination of the tradition and its transformation in the 20th century will be explored.
Not open for credit to students with credit in ART 469 or 598Y. Letter grade only (A-F).
470A/570A. Japanese Buddhist Art to 1500 (3)
Prerequisite: One of the following: AH 113A, 113B, 111A, 111B, ART 393, 451, consent of instructor.
Survey of sacred architecture, sculpture, painting, gardens and decorative art from prehistoric culture through Zen Buddhism, reading images in regard to religious, political and social values.
Not open for credit to students with credit in ART 470. Letter grade only (A-F).

470B/570B. Japanese Art 1500-1868 (3)
Prerequisite: AH 113A, 113B, 111A, 111B, ART 393, 451, or consent of the instructor.
Analysis of secular painting, architecture, ceramics and garden design in the Momoyama and Edo periods, linking the wide variety of subjects and styles to the complex values of samurai, priest, aristocrat or merchant class patrons.
Not open for credit to students with credit in AH 470. Letter grade only (A-F).

471A/571A. Modern Japanese Graphic Art (3)
Prerequisite: One of the following: AH 113A, 113B, 111A, 111B, ART 393, 451, or consent of the instructor.
Examination of painting, prints, photography and graphic design in regard to an era when being modern was often linked to being Western. We also consider manga in regard to earlier modern adaptations of traditional design.
Not open for credit to students with credit in AH 471. Letter grade only (A-F).

471B/571B. Modern Japanese Plastic Art (3)
Prerequisite: One of the following: AH 113A, 113B, 111A, 111B, ART 393, 451, or consent of the instructor.
Investigation of architecture, gardens, sculpture and ceramics in light of debates over Internationalism or nationalism, modernity or tradition. The political and economic implications of design choices will be highlighted.
Not open for credit to students with credit in AH 471. Letter grade only (A-F).

471C/571C. Modern Japanese Architecture (3)
Prerequisites: AH 113A or AH 113B or AH 111A. AH 111B or AH 111C
Analysis of "Japaneseness" and "foreign-ness" in Japan between 1868 and 1970. Examination of Japanese conceptions of and reactions to "modernity" in regard to national identity as expressed in architecture and gardens. Related consideration of urbanism and nationalism.
Letter grade only (A-F).

495. Independent Study in Art History (1-6)
Independent research conducted under supervision of faculty member. Student and instructor must have on file in Department of Art an approved written agreement, established at beginning of course, outlining description of work, specific tasks required, nature of final report, and basis for determining final grade.
Letter grade only (A-F).

498. Special Topics in Art History (3)
Prerequisite: AH 447 or consent of instructor.
Opportunity for extensive work with faculty supervision on individual problems in art history.
May be repeated to a maximum of 9 units. Not open for credit to students with credit in ART 498. Letter grade only (A-F).

497/597. Seminar in Art History (3)
Prerequisite: Consent of instructor.
Directed individual research and group discussion concerning a topic in art history.
May be repeated to a maximum of 6 units in the same semester and 9 units in different semesters. Not open for credit to students with credit in ART 497 or 611 beyond combined maximum units. Letter grade only (A-F).

499. Special Topics in Art History (3)
Prerequisite: Consent of instructor.
Topics from selected areas of Art History. Content may vary each semester.
Topics will be announced in the Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester and a total of 12 units in different semesters.

499Q. Special Studies in Museum Studies (3)
Prerequisites: AH 431 or consent of instructor.
Opportunity for extensive individual work with faculty supervision on problems in museum studies, including utilizing the resources of The Center for Southern California Studies in the Visual Arts.
May be repeated to a maximum of 3 units in the same semester and 9 units in different semesters. (6 hrs. lab.) Not open for credit to students with credit in ART 499Q. Letter grade only (A-F).

500.400. 19th Century Photography (3)
Prerequisites: AH or ART graduate student, or consent of the instructor.
Examination of 19th century photography.
Latter grade only (A-F).

501.401. American Art to 1900 (3)
Prerequisites: AH 111A, 111B or consent of instructor.
Survey of American art from the time of European settlement to roughly 1900 with special focus on cultural, political, and historical contexts. Combines slide lecture with discussion of primary and secondary readings.
Letter grade only (A-F).

502. The Rise of Landscape Painting (3)
Prerequisite(s): AH 111A, 111B or consent of instructor.
Examination of emergence and transformation of landscape painting in Europe and America between 1750 and 1850 with special focus on cultural, political, and historical contexts. Combines slide lecture with discussion of primary and secondary readings.
Letter grade only (A-F).

508.408. Early Christian and Byzantine Art (3)
Prerequisites: AH 111A, 111B or consent of instructor.
Architecture, mosaics and sculpture of Rome, Ravenna and Constantinople from the decline of the Roman Empire to the end of the Byzantine era.
Not open for credit to students with credit in ART 408 or 508B. Letter grade only (A-F).

509.409. Romanesque Art (3)
Prerequisites: AH 111A, or consent of instructor.
Arts of Northern Europe from Merovingian through the Romanesque periods.
Not open for credit to students with credit in ART 409 or 598C. Letter grade only (A-F).

510.410. Gothic Art (3)
Architecture, sculpture, and painting in western Europe from the 12th through the 14th centuries, with special attention to the construction and decoration of the great cathedrals, and to the development of new approaches to style and content in the figurative art of the 14th-century Italy.
Not open for credit to students with credit in ART 410 or 598D. Letter grade only (A-F).

511.411. History and Criticism of Photography (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
History of photography from its origins to contemporary developments in the twentieth century. Critical and philosophical approaches to the photographic medium.
Not open for credit to students with credit in ART 411 or 511. Letter grade only (A-F).

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516.416. Greek Art (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Survey of Greek art from beginning in Aegean period through late Hellenistic period, concentrating on major categories of architecture, sculpture, painting, vase painting, and so-called minor arts discussed relative to contemporary theories, art史, and history. Focus on techniques and materials of various arts.
Not open for credit to students with credit in ART 416 or 508E. Lottor grade only (A-F).

517.417. Roman Art (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Survey of art of the Romans, including indigenous art of the Italic peoples and the Etruscans, and Roman art from early Republic to Age of Constantine. Discussion of major art forms of architecture, sculpture, painting, and so-called minor arts.
Not open for credit to students with credit in ART 417 or 508L. Lottor grade only (A-F).

523.423. Early Renaissance Art in Italy (3)
Examination of stylistic and technical developments of fifteenth-century Italian painting, sculpture, and architecture, as well as interaction of cultural, social, and religious developments with visual arts. Special attention to the revival of classicism, influence of private patrons.
Not open for credit to students with credit in ART 423 or 508F. Lottor grade only (A-F).

524.424. High Renaissance Art in Italy (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examination of sixteenth-century Italian painting, sculpture, and architecture, emphasizing works of Raphael, Michelangelo, Titian, and the Mantuan School. Historical, cultural, religious, and theoretical framework. Special attention to works by a handful of major artists (Leonardo da Vinci, Michelangelo, Raphael, Titian, and the Mantuan School).
Not open for credit to students with credit in ART 424 or 508G. Lottor grade only (A-F).

525.425. Northern Renaissance Painting (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examination of artistic developments in Northern Europe, particularly in Flanders, France, and Germany, from the 14th century through the 16th century. Historical, cultural, religious, and theoretical framework. Special attention to iconography, and the changing role of the artist in society.
Not open for credit to students with credit in ART 425 or 508H. Lottor grade only (A-F).

526.426. Baroque Art in Spain, the Netherlands, and England (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examines the closely intertwined political and artistic situations in the Netherlands (Flanders and Holland), England and Spain during the 17th and early 18th centuries. Emphasis on the relationships between Rubens and Velasquez, and the contrast between Rubens and Rembrandt; also Flemish influence in England, due especially to Anthony van Dyck.
Not open for credit to students with credit in ART 426 or 508J. Lottor grade only (A-F).

527.427. Baroque Art in Italy, France, and Germany (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examines the birth of the Baroque in Rome, and the role of the Counter-Reformation in shaping artistic center in Italy and France in the early 17th century. Also covers the influence of the Versailles court of the "Sun King," Louis XIV, in the late 17th and early 18th centuries, especially in the independent Neoclassical style.
Not open for credit to students with credit in ART 427 or 508K. Lottor grade only (A-F).

530.430. Introduction to Curatorial Practices (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Study of contemporary art display theory/practice including exhibition typologies, curatorial modes, and recent transformations in museums, galleries and the art market. Designed for Museum and Curatorial Studies Certificate students and others interested in studying museum practices within a broader context.
Lottor grade only (A-F). Not open for credit to students with credit in AH 435B, 535B.

531.431. History of Museums and Exhibitions (3)
Prequisites: AH 111A, 111B or by consent of student advisor.
Study of history of art museums and how displays reflect social and cultural conditions and political ideologies. Attention to controversial exhibitions, and recent transformations in the field.
Lottor grade only (A-F). Not open for credit to students with credit in ART 435, 435A, or 535A.

536.436. Neo-Classicism to Romanticism, 1780-1850 (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examination of Neo-Classicism, Realism, Romanticism, photography and the academic tradition in art and culture of Europe from 1789-1850.
Not open for credit to students with credit in ART 436 or 508M. Lottor grade only (A-F).

537.437. Impressionism to Post-Impressionism, 1850-1900 (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Analysis of the development of Impressionism and Post-Impressionism in France from 1850 to 1900.
Not open for credit to students with credit in ART 437 or 508N. Lottor grade only (A-F).

538.438. Art of Early to Mid Twentieth Century (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examination of key developments, trends, movements of the period including Abstraction, Non-Objective art, Expressionism, Dada, and Surrealism.
Lottor grade only (A-F). Not open for credit to students with credit in ART 438 or 508P.

539.439. Art of Mid to Late Twentieth Century (3)
Prequisites: AH 111A, 111B, or consent of instructor.
Examination of key developments, trends, movements of the period including Pop-Art, Happenings, Minimal Art, Art and Technology, Environmental Concept, Performance and Video Art.
Lottor grade only (A-F). Not open for credit to students with credit in ART 439 or 508Q.

541.441. Contemporary Art in Context (3)
Prequisites: Graduate Student in Art History or consent of instructor.
International survey focusing on developments in art from late twentieth century to present. Examination of precedents, traditions, legacies behind current art. Consideration of critical/theoretical issues and factors influencing production and reception of current art.
Lottor grade only (A-F).

542. Internship in Museum Studies (3)
Prequisites: AH 430/530 or consent of instructor.
Supervised internship in selected museums, college and community art centers appropriate to student's particular academic interest. Opportunity to work with museum professionals in the field to expand student understanding of the complexities, disciplines and challenges in the profession.
Lottor grade only (A-F). May be repeated to a maximum of 3 units in the same semester and 5 units in different semesters. (F, hrs. lab.) Not open for credit to students with credit in ART 542.
544. History of Graphic Design (3)
Prerequisites: For 444: AH 111A and 111B, or consent of instructor. For AH 544: Graduate Student in Department of Art, or consent of instructor.
Thematic approach to Graphic Design history, with consideration of pioneering designers, movements, and cultural, social, political and technological influences in the evolution of graphic design.
Not open for credit to students with credit in Art 306. Letter grade only (A-F).

545A. Museum-Gallery Practices (3)
Prerequisites: AH 431 or AH 531 or consent of instructor. First in a four-course sequence.
Pre-professional training in museum-gallery practices: administration, curating, exhibition planning and design, budgeting, public relations, project completion, documentation, publication. University Art Museum and other venues serve as labs for practical experience in developing and realizing exhibitions.
Letter grade only (A-F).

545B. Museum-Gallery Practices (3)
Prerequisites: AH 545A or consent of instructor.
Second in a four-course sequence. Pro-professional training in museum-gallery practices: administration, curating, exhibition planning and design, budgeting, public relations, project completion, documentation, publication. University Art Museum and other venues serve as labs for practical experience in developing and realizing exhibitions.
Letter grade only (A-F).

545C. Museum-Gallery Practices (3)
Prerequisites: AH 545B or consent of instructor. Third in a four-course sequence.
Pre-professional training in museum-gallery practices: administration, curating, exhibition planning and design, budgeting, public relations, project completion, documentation, publication. University Art Museum and other venues serve as labs for practical experience in developing and realizing exhibitions.
Letter grade only (A-F).

545D. Museum-Gallery Practices (3)
Prerequisites: AH 545C or consent of instructor. Fourth in a four-course sequence.
Pre-professional training in museum-gallery practices: administration, curating, exhibition planning and design, budgeting, public relations, project completion, documentation, publication. University Art Museum and other venues serve as labs for practical experience in developing and realizing exhibitions.
Letter grade only (A-F).

546. Art History Methodologies and Writing (3)
Prerequisites: AH 111A and 111B.
Practices in writing and conducting research in art history, and introduction to various methodologies and debates within the discipline, including biography, formalism, semiotics, gender studies, psychoanalysis, Marxism, post-colonialism, and visual culture studies.
Letter grade only (A-F).

547. Historiography of Art History (3)
Prerequisites: For 447: undergraduate Art History major with senior status or consent of instructor. For 547: graduate student in AH History or consent of instructor.
Study of the history of art history as intellectual discipline. Reading and writing intensive seminar designed specifically for undergraduate art history majors in final year of study and for graduate students in M.A. in Art History program.
Letter grade only (A-F). Not open for credit to students with credit in ART 307 or AH 307.

548. Western Art Theory and Criticism to the Mid-Nineteenth Century (3)
Prerequisites: For 448: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 548: graduate student in Art History or consent of instructor.
A text-based examination of western art theory and criticism up to the mid-nineteenth century.
Letter grade only (A-F). Not open for credit to students with credit in AH 308.

549. Western Art Theory and Criticism Mid-Nineteenth to Mid-Twentieth Century (3)
Prerequisites: For 449: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 549: graduate student in Art History or consent of instructor.
A text-based examination of western art theory and criticism from the mid-nineteenth to mid-twentieth centuries. Not open for credit to students with credit in AH 309.
Letter grade only (A-F).

550. Western Art Theory and Criticism Mid-Twentieth Century to Present (3)
Prerequisites: For 450: undergraduate Department of Art major and 111A and 111B, or consent of instructor. For 550: graduate student in Art History or consent of instructor.
A text-based examination of western art theory and criticism from the mid-twentieth century to the present.
Letter grade only (A-F). Not open for credit to students with credit in AH 310.

555. Traditional Art of Africa: A Thematic Approach (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Exploration from a Western perspective of the conceptual, expressive, and aesthetic aspects of traditional African art as related to its cultural context and to Western concepts of art. Focus on West Africa.
Not open for credit to students with credit in ART 455 or 598R. Letter grade only (A-F).

556. American Indian Art: Western Perspectives (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Explorations from a Western perspective of the historically various and changing frames of reference surrounding perception, interpretation, and consideration of Native American art through focus on selected traditions.
Not open for credit to students with credit in ART 455 or 598S. Letter grade only (A-F).

557. Pre-Columbian Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Survey of art and architecture in Mesopotamia and Andean region of South America from 10000BC to Spanish conquest. Special attention to social, political and economic contexts, as well as research methods and theoretical assumptions of scholars investigating this field.
Letter grade only (A-F).

558. Modern Latin American Art (3)
Prerequisites: AH 111B or consent of instructor.
An investigation of developments in visual culture in Latin America from the late-19th century to the mid-20th century, with special emphasis on artists in Argentina, Brazil, Colombia, Mexico, Uruguay, and Venezuela.
Letter grade only (A-F).

559. Contemporary Latin American Art (3)
Prerequisites: AH 111B or consent of instructor.
An investigation of developments in visual culture in Latin America from the mid-20th century to the present, with special emphasis on artists in Argentina, Brazil, Chile, Colombia, Cuba, Mexico, and Venezuela, as well as Latino/a artists.
Letter grade only (A-F).
565/465. Ancient Art of the Near East (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Not open for credit to students with credit in ART 465 or 598U.
Letter grade only (A-F).

566/466. Buddhist Art of India and S.E. Asia (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
The development and development of Buddhist art in India and its
subsequent metamorphoses in Cambodia, Thailand and Indonesia
will be examined.
Not open for credit to students with credit in ART 466 or 598V.
Letter grade only (A-F).

567/467. Hindu and Islamic Art of India (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
The formation and development of Hindu art in India and
the genesis, as well as transformation, of Islamic art in India
comparing to pan-Islamic characteristics will be examined.
Not open for credit to students with credit in ART 467 or 598W.
Letter grade only (A-F).

568/468. Early Chinese Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
The formation and development of Chinese art from the third
millennium to the 10th century A.D.
Not open for credit to students with credit in ART 468 or 598X.
Letter grade only (A-F).

569/469. Later Chinese Art (3)
Prerequisites: AH 111A, 111B, or consent of instructor.
Development of Chinese art from the 11th century A.D. through
the domination of the industry and its transformation in the 20th
century will be explored.
Not open for credit to students with credit in ART 469 or 598Y.
Letter grade only (A-F).

570A/470A. Japanese Buddhist Art to 1500 (3)
Prerequisite: One of the following: AH 113A, 113B, 111A, 111B, A/ 
ST 393, 451, or consent of instructor.
Survey of sacred architecture, sculpture, painting, gardens
and decorative art from Neolithic culture through Zen Buddhism,
including the spiritual, political, and social values.
Not open for credit to students in AH 470. Letter grade only (A-F).

570B/470B. Japanese Art 1500-1868 (3)
Prerequisites: AH 113A, 113B, 111A, 111B, A/ST 393, 451, or
consent of instructor.
Analysis of secular painting, architecture, ceramics and garden
design in the Momoyama and Edo periods, linking the wide variety
of styles and styles to the competing values of samurai, priest,
artist, and merchant class patrons.
Not open for credit to students in AH 470. Letter grade only (A-F).

571A/471A. Modern Japanese Graphic Art (3)
Prerequisites: One of the following: AH 113A, 113B, 111A, 111B, A/
ST 393, 451, or consent of instructor.
Examination of painting, prints, photography and graphic design
in Japan in the context of the issues of modernity and nationalism in an
era when being modern was often linked to being Western. We
also consider manga in regard to earlier modern adaptations of
traditional design.
Not open for credit to students with credit in AH 471. Letter grade only (A-F).

571B/471B. Modern Japanese Plastic Art (3)
Prerequisites: One of the following: AH 113A, 113B, 111A, 111B, A/ST
393, 451, or consent of instructor.
Investigation of architecture, gardens, sculpture and ceramics in light of
debates over internationalism or nationalism, modernity or tradition.
The political and economic implications of design choices will be
highlighted.
Not open for credit to students with credit in AH 471. Letter grade only (A-F).

571C/471C. Modern Japanese Architecture (3)
Prerequisites: Art History Graduate Student
Analysis of "Japaneseness" and "foreign-ness" in Japan between 1908
and 1970. Examination of Japanese creations of and reactions to
"modernity" in regard to national identity as expressed in architecture
and gardens. Related consideration of urbanism and nationalism.
Letter grade only (A-F).

595. Independent Study in Art History (1-6)
Independent, in-depth research projects to be conducted by students
under the supervision of a faculty member.
As per university policy on independent studies courses, each student
enrolled in this course must have an agreement, or contract, on
file in the department office. The agreement is to be made between
the student and the instructor at the beginning of the course, and
must include: a description of the work to be accomplished; specific
information on the tasks required; the nature of the final report; and the
basis for determining the final grade. The agreement must be signed
by both the instructor and the student.
Letter grade only (A-F). May be repeated to a maximum of 12 units in the
same semester.

596. Special Studies in Art History (3)
Graduate level variable directed study projects providing a way for
students to independently pursue special research topics in art history
under instructor supervision.
Letter grade only (A-F). May be repeated to a maximum of 12 units in
the same semester.

597/497. Seminar in Art History (3)
Prerequisite: Consent of instructor.
Directed individual research and group discussion concerning a topic
in art history.
May be repeated to a maximum of 6 units in the same semester and 9
units in different semesters. Not open for credit to students with credit in
ART 497 or 511 beyond combined maximum units.
Letter grade only (A-F).

598. Special Topics in Art History (3)
Prerequisite: Consent of instructor.
Topics from selected areas of Art History. Content may vary each
semester.
Topics will be announced in the Schedule of Classes. Letter grade only
(A-F). May be repeated to a maximum of 6 units in the same semester
and a total of 12 units in different semesters.

599Q. Special Studies in Museum Studies (3)
Prerequisites: Consent of instructor.
Advanced individual graduate projects, with faculty supervision, in
museum studies.
May be repeated to a maximum of 6 units in the same semester and a total
of 12 units in different semesters. (6 hrs. lab.) Letter grade only (A-F).

698. Thesis (1)
Prerequisites: Art History MA student, advancement to Candidacy and an
approved Thesis Statement.
Execution and completion of an approved thesis. Student must enroll
in three sections concurrently. To be taken with each of student's three
MA Thesis Committee members over two semesters for a total of 6
units.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the
same semester.
ARTS, COLLEGE OF THE

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Associate Dean: Jay Keepi
Administrative Services Manager: Patti Meyers-Brown
Directors, Development: Arlene Knapp, Ed Fasulli
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Executive Director, Carpenter Performing Arts Center: Michelle Roben
Director, California Institute for the Preservation of Jazz: Richard Birkenmeier
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Introduction

The College of the Arts at California State University, Long Beach is one of the largest and most respected state supported arts colleges in the country. With more than 4,500 students studying in six departments, the College of the Arts (COTA) offers nationally recognized, fully accredited degree programs in Art, Dance, Design, Film and Electronic Arts, Music, and Theatre Arts. The College of the Arts is located in close proximity to the Los Angeles/Hollywood area and has many ties to the arts and entertainment industries. The curriculum focuses on professional development in the applied or performance fields of study. The goal of most students is professional employment as artists, designers, or performers in their chosen disciplines.

The learning opportunities within the College of the Arts reflect its commitment to the arts in all forms. For performers, artists, and scholars, the College of the Arts provides an environment designed for individual achievement. It offers programs to meet the needs of students who wish to:
- Pursue professional careers in art, dance, design, music, electronic media, film, or theatre arts
- Teach one or more of the arts
- Explore the creative uses of technology in the arts
- Follow a degree program that provides a broad education with a focus in the arts
- Learn about the history and nature of the arts in Western and non-Western cultures
- Develop appreciation of art forms and their lasting value to the quality of life

At the undergraduate level, the College of the Arts offers a comprehensive variety of professional degree programs meeting the highest standards of excellence, including the:
- Bachelor of Fine Arts Degree in Art
- Bachelor of Fine Arts Degree in Design
- Bachelor of Fine Arts Degree in Dance
- Bachelor of Science Degree in Industrial Design
- Bachelor of Music Degree

For students seeking a liberal education with the arts as a focus, the departments of Art, Dance, Design, Music, Film and Electronic Arts, and Theatre Arts offer Bachelor of Arts degrees.

The Art Department also offers a comprehensive Bachelor of Arts degree in Art History.

Students wishing to earn a degree in arts education may choose from the Bachelor of Arts Degree in Art Education or the Bachelor of Music Degree in Instrumental or Choral/ Vocal Music Education. Students may also earn a California Single Subject Credential in Art or Music, offered jointly between the College of the Arts and the College of Education.

At the graduate level, the College of the Arts offers outstanding professional degree programs, including the:
- Master of Fine Arts Degree in Art
- Master of Fine Arts Degree in Dance
- Master of Fine Arts Degree in Theatre Arts
- Master of Fine Arts Degree in Dramatic Writing
  (offered by the Department of Theatre Arts with primary support from the Department of Film and Electronic Arts)
- Master of Business Administration/Master of Fine Arts in Theatre Management (offered jointly by the Departments of Theatre Arts and the College of Business Administration)
- Master of Music Degree

The College also offers the Master of Arts Degree in the Departments of Art and Music. For students seeking a graduate degree in arts education, the College offers the Masters of Arts Degree in Art Education, Dance Education, and Music Education.

The Art Department also offers a comprehensive Master of Arts Degree in Art History.

Other special programs in the College of the Arts include an Undergraduate Certificate in Biomedical Illustration and a Graduate certificate in Museum Studies, both in the Department of Art.

Departments in the College are accredited by the major accrediting agency for their discipline: The National Association of Schools of Art and Design, The National Association of Schools of Dance, The National Association of Schools of Music, and the National Association of Schools of Theatre. The faculty of the College of the Arts is an accomplished group of artists and scholars who bring significant expertise and professional experience to their teaching assignments.

The College of the Arts is also home to the University Art Museum, a nationally accredited art museum which presents exhibitions of professional stature focusing primarily on contemporary artists as well as the California Reportory Company and the California Institute for the Preservation of Jazz. California Reportory Company, the Theatre Arts Department's graduate and professional theatre program, is the only company of its kind in the CSU system.

Major performance and exhibition facilities include the University Art Museum, the five Art Department Galleries, the University Theatre, the Studio Theatre, the Edison Theatre, the Donald R. Daniel Recital Hall, the Martha Knobler Dance Theater, and the Richard and Karin Carpenter Performing Arts Center.

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Arts Center. The extensive performance calendar generated by the wide-ranging curricula includes over 300 student and faculty concerts including music performances, film showcases, theatre productions, dance performances, art exhibitions, and design presentations. The College of the Arts is a highly visible part of the campus community, as well as an important cultural and economic resource in the Long Beach/Los Angeles and Orange County areas.

**Bob Cole Conservatory of Music**

In March 2008, the CSULB Department of Music was officially designated the Bob Cole Conservatory of Music, in recognition of a significant gift devoted to student scholarships. The Cole Conservatory of Music is one of the largest, most comprehensive music programs in the Western United States, with graduate and undergraduate degrees offered in performance, composition, history and literature, music education and jazz studies. Student and faculty recitals, combined with concerts by more than 20 performance ensembles, produce a calendar of more than 150 public performances each year, on campus and off.

**University Art Museum**

The University Art Museum, which recently celebrated its 25th anniversary, is ranked among the top 10% of the nation’s 7,000-plus museums. The only accredited museum in the CSULB system, it has achieved worldwide acclaim for its exhibitions, publications, and collections of contemporary artworks. In 1999, the museum was the recipient of the Hampton Collection, a $3.2 million gift featuring 85 stunning mid-century abstractions by 42 artists.

**The Richard and Karen Carpenter Performing Arts Center**

The Carpenter Performing Arts Center opened in 1994. Designed by local architect Donald Gibb, the elegant performance hall has enriched the surrounding community with hundreds of music, dance, film, and theatre events. The Carpenter Center, which seats 1,065 patrons, can accommodate large or small performing ensembles, film screenings, concerts, conferences, and other special events.

**The California Institute for the Preservation of Jazz**

The Jazz Institute is a state agency housed in the College of the Arts. The Institute's mission is to provide jazz education, outreach, performance, and preservation services for the western region of the United States. The Jazz Institute has acquired more than 50,000 records, 7,500 compact discs, 5,000 tapes, and thousands of books, periodicals, photos, and memorabilia, as well as a collection of broadcast transcriptions and hundreds of hours of filmed and videotaped performances.

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**Courses (COTA)**

**UPPER DIVISION**

360. Writing in the Arts (3)

Prerequisites: Must have attempted and failed the WPE once, major in a COTA dept., junior standing, and consent of instructor. Multi-disciplinary elective that may be used to fulfill the GWAR. Analysis and practice of writing for and about the arts, including the visual arts, dance, design, film, music and theatre. Exploration of critical thought in the arts while practicing writing skills.

Credit/No Credit grading only.
ASIAN AND ASIAN AMERICAN STUDIES
College of Liberal Arts

Department Chair: John N. Tsachida
Vice Chair: Hsin-sheng C. Kao
Department Office: Faculty Offices FOC-340
Telephone: (562) 985-4645
FAX: (562) 985-1355
Center: Center for Asian Pacific American Studies
Website: http://www.csulb.edu/dept/apa

Faculty: Masako O. Douglas, Linda N. Espinosa-Moram, Feng Ying Ming, Hiroko Katooka, Hsin-sheng C. Kao, Barbara W. Kim, San-Pao Li (Emeritus), Yoko Pusavat (Emeritus), Dean S. Toji, John N. Tsachida, Tianwei Xie, Tetsu Yamasda

Advisors: Graduate: Linda N. Espinosa-Moram
Undergraduate: Hiroko Katooka (Japanese)
Hsin-sheng C. Kao (Asian Studies and Chinese Studies)
Dean S. Toji (Asian American Studies)

Associate Faculty: Christine Bhat (Educational Psychology, Administration and Counseling), Jeffrey Broughton (Religious Studies), Kendall Brown (Art History), Chi-Hsien Chu (Psychology), Vincent Del Casino (Geography), Frank Gosselin (Geography), Lisa Grobar (Economics), Sarah Gunatillake (Health Science), Jack W. Hou (Economics), Tomotaka Ishii (Economics), Margaret Kuo (History), Gustavo Li (History), Hyojin Park (Teacher Education), Xiaoping Liang (Linguistics), William Mulligan (Journalism), Kim Oanh Nguyen-Lam (CLMEL), Kanen Quintanilla (Anthropology), George Scott (Anthropology), Teresa Wright (Political Science), Oliver Wang (Sociology), R. Scott Wilson (Anthropology)

Administrative Support Coordinator: Chie Taubki

Students desiring information should contact the department office for referral to one of the faculty advisors.

Career Possibilities
Social Scientist • Archivist • Social Worker • Journalist
• Counselor • Teacher • Public Relations Consultant • Artist, Author
• Foreign Service Officer • Foreign Trade Officer • Community Organizer • School Administrator • Linguist • Parole Officer • Probation Officer • Editor • Writer • Urban/Regional Planner • Public Policy Administrator • Foreign Policy Officer • Policy Analyst

Bachelor of Arts in Asian Studies
(code A/STBA01) (120 units)

Students choosing an Asian Studies major are advised to select one of two tracks for the degree. The student may choose an area of studies track, concentrating on one or more specific Asian societies, such as China, Japan, India, or Southeast Asia. Or, the student may choose to focus on an Asian American Studies track and combine the study of Asian Americans as ethnic minorities with supporting investigation of the countries of their historical origin.

Requirements
1. ASAM 120 or 200;
2. A/ST 301, 301a and 402;
3. Three semester (or the equivalent) of a single Asian language, chosen from courses in Chinese, Japanese, or an Asian language approved by the undergraduate advisor.

Upper Division: A minimum of 21 units; students should select one of the following two tracks:

1. Area Studies Track

21 units of upper division work, including A/ST 492 (Proseminar in Asian Studies), and additional courses selected from the list of approved electives with the following provisions: (1) no more than 9 units shall be
counted in a single discipline such as art or history, (2) no more than 9 units shall be credited that concentrate upon any one area of Asia, chosen from among the following: China, India, Japan, or Southeast Asia. No more than 6 units of courses on the Americas can be applied toward this requirement. In the case of seminar, thematic, or variable topic courses, the assignment of a disciplinary and/or geographic category will be made by the undergraduate advisor in consultation with the appropriate faculty member).

II. Asian American Studies Track

21 units of upper division work, selected from the list of approved electives with the following provisions: (1) A/ST 492 (Proseminar in Asian Studies [3 units]); (2) 12 units of upper division Asian American Studies including ASAM 310 and 345; (3) the remaining upper division units focusing on one geographical area of Asia, chosen from among the following: China, India, Japan, or Southeast Asia.

Certificate in Asian Studies
(code A/STC701)

A student may earn a Certificate in Asian Studies with a concentration on China, Japan, India, or Southeast Asia. Where applicable, courses used to meet the certificate requirements also may be used to satisfy the General Education requirement and the major and teaching minor requirements of the cooperating departments.

Requirements
1. A bachelor's degree, with a major in a discipline other than Asian Studies. May be completed concurrently;
2. A minimum of two semesters or its equivalent of an approved Asian language which is to be selected in accordance with the area of concentration;
3. A total of 30 units, 30 of which are upper division work divided among two or more disciplines. Those are to be selected in accordance with the area of concentration and in consultation with the student's advisor. No more than 6 units in any one discipline shall apply towards the Certificate.

Bachelor of Arts in Asian American Studies
(code A/STBA04) (120 units)

The Bachelor of Arts degree in Asian American Studies provides an interdisciplinary approach to explore the diverse histories, cultures, communities, and contemporary realities in Asian America. It is designed to offer students an opportunity to develop a greater understanding of the complexities of Asian American experiences and to prepare them to function in a multicultural and intercultural world. The communication and critical skills which are stressed in the program will be instrumental to students pursuing postbaccalaureate degrees in "traditional" disciplines, including History, Geography, Sociology, Psychology, and Literature; in interdisciplinary programs like Ethnic Studies and Women's Studies; and in professional fields such as Law, Business Administration, and Social Work. The program's curriculum and broad liberal arts perspectives likewise will prepare students for employment in several professions, including education, public policy, community development, media, social services, and human resources. Admission to the program requires completion of the G.E. Foundation courses.

Requirements
A major in Asian American Studies requires a minimum of 34 units, with at least 18 units earned in residence at CSULB. The 34 required units are to consist of:
A. 6 units of lower-division core courses
B. 16 units of upper-division core courses
C. 12 units of upper-division electives in the following areas:
  1. Specific Ethnic Group Focus
  2. Gender Studies
  3. Asian Americans in Comparative Perspectives
  4. Explorations in Asian America

Lower-Division Core Courses (6 units): ASAM 120, 221.
Upper-Division Core Courses (16 units): A/ST 300L, 301L, or 310; ASAM 305, 345, 346, 495
Upper-Division Electives (12 units): selected from at least two of the following groups:
  Group 2. Gender Studies: ASAM 340, 370, 381
  Group 3. Asian Americans in Comparative Perspectives: ASAM 319, 321, 335L, 341, 342
  Group 4. Explorations in Asian America: ASAM 310, 347, 360, 380, 410, 490, 499

Minor in Asian American Studies
(code A/STUM01)

Requirements
The Minor in Asian American Studies is available to all majors. A minimum of 22 units which must include:
A. ASAM 120, 200 or 319, 221, 305, and 345;
B. six units selected from among the following: ASAM 250, 310, 321, 330, 331, 332, 333, 334, 336, 340, 341, 342, 346, 347, 352, 353, 360, 370, 381, 410, 490, and 495.

Certificate in Asian American Studies
(code A/STC702)

Students pursuing any approved degree or credential degree or credential program of the University may at the same time earn a Certificate in Asian American Studies. Courses taken to meet the requirements may simultaneously be used, where applicable, to meet General Education requirements or the degree or credential requirements of cooperating departments. Certification of successful completion of requirements will be issued upon the recommendation of the Department Chair.

Requirements
1. A bachelor's degree with a major other than Asian American Studies. May be completed concurrently;
2. A minimum of 30 units distributed as follows:
   A. (required): ASAM 120, 200 or 319, 221, 305, 345, 360, 495 plus

Interested students should apply to the Department Chair.
Graduate Programs

Master of Arts in Asian Studies (code A/STM01)

The Master of Arts degree in Asian Studies is an interdisciplinary degree offered by the Asian Studies faculty of its cooperating departments. It is especially aimed at those intending to pursue careers in teaching, foreign service, or foreign trade. Students applying for the M.A. Program in Asian Studies must apply for admission to the University and simultaneously provide official transcripts, two letters of recommendation, and a statement of purpose to the graduate advisor of the department.

Prerequisites
1. A Bachelor's degree with a major in Asian Studies; or
2. A Certificate in Asian Studies, awarded at CSULB, or its equivalent as evaluated by the Graduate Advisor of the Department of Asian and Asian American Studies. Equivalency will, normally, be granted for work in Asia-related studies at CSULB and/or at other academic institutions, including a minimum of 18 units in no more than four disciplines with a minimum of six units in each of two disciplines of concentration plus two semesters of an approved Asian language. Only courses with a substantive Asia-related content are acceptable; or
3. A bachelor's degree in one of the fields in social science, humanities, or fine arts with 24 units of upper division Asia-related courses. These courses must be comparable to those required of a major in Asian Studies at this University. Deficiencies will be determined by the graduate advisor after consultation with the student and after evaluation of transcript records. Students whose undergraduate prerequisites are inadequate will be required to fulfill these deficiencies before advancement to candidacy and will receive unclassified graduate status until all deficiencies are removed.

Advancement to Candidacy
1. Satisfaction of the general University requirements for advancement to candidacy;
2. Completion of 6 or more of the required units (not including language) with a minimum 3.0 overall GPA;
3. Approval of proposed program of study;
4. Satisfactory fulfillment of the Graduate Writing Assessment Requirement (GWAR).

Requirements
1. A minimum of 30 units of approved upper division and graduate courses including A/ST 502 and A/ST 610. At least 18 units must be in the 500-600 series composed of units earned at this University in graduate courses, graduate seminars, Directed Studies/Research or Thesis. All seminars and independent study courses may be repeated to a total of six (6) units, provided the topic is different. Directed Studies, Readings and Research, in any combination, may not exceed a total of six (6) units: A/ST 693 (thesis) must be taken for a minimum of four and a maximum of six units will be given for A/ST 698 for those taking the thesis option.

2. A minimum of three upper division units in each of two disciplines of concentration must be taken preparatory to seminar work. Students should take at least six units of 500/600 level work in each of the two disciplines or concentrations;
(N.B. Determination of the disciplinary status of any Asian Studies or any other courses taken at CSULB or other academic institutions shall be at the discretion of the Graduate Advisor in consultation with faculty, review of syllabi and reading lists, assessment of transcripts, etc.)

3. Comprehensive written examination in each of the two disciplines of concentration or a thesis. Students must have received permission of the Graduate Advisor, faculty advisor, and prospective committee members before being allowed to file for the thesis option. Once selected, a student may not change his/her option.

4. Six units (beyond the B.A. level) in Chinese or Japanese or an Asian language approved by the Graduate Advisor. Waiver of this requirement, either by transfer of credits from another institution or by assessment of proficiency by resident faculty, is at the discretion of the Graduate Advisor of the Department of Asian and Asian American Studies.

Upper Division Courses Acceptable:
A/ST 320, 406AB, 490, 492, 499; ANTH 332, 333, 335, 416, 417, 419, 427, 430; AH 468, 467, 469, 469, 470S, 471AB, 492, 498; CWL 493; 448; CHIN 380, 390, 410, 430ABC, 451, 490, 492, 499; GEOG 326, 494, 497; HIST 384, 386, 405, 406A, 406B, 408, 495, 496, 498; JAPN 380, 451, 471, 490, 497; PHIL 399; POSC 362, 364, 456, 469; 498, 499, 499; R/ST 490, 499; WGS 492, 493, 499; 499
* course must be an approved Asia-related topic.

Asian Studies (A/ST)

LOWER DIVISION

190. The Tao Primer of Basic Reasoning (3)
Prerequisites/Corequisites: ENGL 100 or its equivalent. Natural language of Tao aphorisms used for informal and formal types of reasoning, learning Yin and Yang basic analytic steps; applying Tao principles and processes of reasoning to contemporary, common-place, and intercultural issues and problems logically and practically.

290. Special Topics in Asian Studies (3)
Prerequisite: Consent of instructor. Topics of special interest in Asian Studies selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

299. Directed Studies (1-3)
Prerequisite: Consent of instructor. Directed studies to permit individual students to pursue topics of special research interest. May be repeated to a maximum of 6 units. Letter grade only (A-F).
Asian Studies (A/S/T)

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students must also complete prerequisites and/or competency equivalent for advanced study.

301L. Traditional Asia (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses, and upper-division standing.

Interdisciplinary examination of traditional civilizations of Asia. This team-taught course focuses on two major civilizations, normally China and India, and may periodically focus on Japan. Course examines topics related to Asian cultures to illustrate the richness and diversity of Asia.

301L. Modern Asia (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing.

Emphasis on development of Asia since the 19th century and its role in the modern world; some attention to the experience of Asians in the U.S. Continuity and change, reform and revolution in culture, politics and the economy will be included.

310. United States and Asia (3)
Prerequisite: Completion of GE Foundation requirements.

Focusing on the post-1945 period, this course will examine four major areas: (1) key religious, political and political currents in Asia; (2) cross-cultural currents of Asia and America; (3) Asian U.S. global economic relations; and (4) Asian-U.S. strategic and political relationships.

320. Asia in Fiction and Film (3)
Focus on Asian-Western interactions and particularly on Asian-Western perceptions of these interactions as manifested in the fiction of Asian cinema. Focus on China, Japan, and India, with particular attention given to Asian experience in America.

334. Introduction to East Asian Literatures and Cultures (3)
Prerequisite: Completion of GE Foundation requirements.

Comprehensive introduction to the comparative study of East Asian literatures through the reading of representative selections from the literatures of China, Korea, and Japan in historical context. Focus is on the modern period.

Same course as CWL 334. Not open for credit to student with credit in CWL 334.

336. Introduction to Southeast Asian Literatures and Cultures (3)
Prerequisite: Completion of GE Foundation requirements.

Survey of the traditional and modern literatures and cultures of Southeast Asia with a focus on the modern period. Not open for credit to student with credit in CWL 336.

393. Japan's Heritage (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing.

Cultural heritage of Japanese civilization emphasizing history, philosophy, religion, literature and fine arts from prehistory to the present. Letter grade only (A-F).

406A. Asian Women: East and Northeast Asia (3)
Prerequisite: Upper division status.

Exploration of the histories of women in China, Japan and Korea from prehistory to the present. Major themes include women's contributions to social, cultural and political change, and the complex relationship between feminism and nationalism in the modern period.

Same course as HIST 406A and WGS 406A. Not open for credit to student with credit in HIST 406A, WIST 406A or WGS 406A.

406B. Asian Women: South and Southeast Asia (3)
Emphasis on modern period; exploration of complexities of women's roles in multicultural, multilingual societies in South and Southeast Asia, including gender as continuing site of contention in nationalist discourse.

Same courses as HIST 406B and WGS 406B. Not open for credit to student with credit in HIST 406B, WIST 406B or WGS 406B. Letter grade only (A-F).

490. Special Topics in Asian Studies (3)
The topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

B. China in Transition

D. Filipino Language, Literature and Culture

492/592. Proseminar in Asian Studies (3)
Prerequisites: Consent of instructor.

Introduction to research methods. Intensive study of selected conceptual and theoretical issues in Asian Studies or Asian American Studies. Area and discipline of emphasis will vary from year to year. May be repeated to a maximum of 6 units.

495L. China Heritage (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses; upper-division standing.

Cultural heritage explored through history, philosophy, religion and science; side by side with the fine arts; study of the totality of a people's humanistic experience. (Lecture, discussion, and film.) (Lecture, discussion, film.)

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.

Directed studies to permit individual students to pursue topics of special research interest. May be repeated to a maximum of 6 units. Letter grade only (A-F).

GRADUATE LEVEL

Graduate course descriptions are found in the departmental listings in which they are offered. Graduate courses applicable for the degree (only when the focus is on Asia) are: AH 506, 507, 508, 509, 510, 511, *516, *597; AJS/ST 544, 551, 552, 560, 565, 567, 568, ANTH 516, 517, 519, 597, 697, ART 511, ASAM 555, CHIN 530A, B.C., 551, 550, 592; CWL 503, 522, 549, 560, ECON 590; GEOG 650, 697; HIST 505, 506, 510G, 562, 565, 697; JAPN 551, 552, 551, 520, 565, 697; PHIL 597, POLSCI 590, 599, 600, 610, 697, 697; PSY 646, *690, *697.

544. Religions of Japan (3)
The transmission of continental civilization to Japan: Shinto, Buddhism and Tokugawa Neo-Confucianism; Gendai culture; and the New Religions. Emphasis on original texts in translation. Not open for credit to students with credit in RST 344. Letter grade only (A-F).

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551. Hinduism (3)
Survey of ancient, classical and medieval Hinduism. Emphasis on analysis of Upanishads, Bhagavad Gita and the various paths of Yoga. Not open for credit to students with credit in RST 351. Letter grade only (A-F).

592/J492. Proseminar in Asian Studies (3)
Prerequisites: Consent of the instructor.
Introduction to research methods. Intensive study of selected conceptual and theoretical issues in Asian Studies or Asian American Studies. Area and discipline of emphasis will vary from year to year. May be repeated to a maximum of 6 units. Letter grade only (A-F).

610. Seminar in Asian Studies (3)
Selected topics in Asian Studies. Area and discipline of emphasis will vary from year to year. Open to graduate students of Asian Studies. Graduate students in other disciplines may enroll with consent of instructor.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

695. Directed Readings (1-3)
Prerequisites: Consent of graduate advisor.
Readings in Asian Studies on an individual basis.
Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisites: Consent of graduate advisor.
Research in Asian Studies on an individual basis.
Letter grade only (A-F).

698. Thesis (2-6)
Prerequisite: Consent of the graduate advisor.
Planning, preparation, and completion of a thesis in Asian Studies.

Asian American Studies (ASAM)

LOWER DIVISION

1. Writing Skills (3)
Prerequisite: Students who score 147 or below on the English Placement Test and who have not taken equivalent courses in another department are eligible for enrollment in this course. Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence, and paragraph. Methods for developing and organizing ideas in coherent essays. Conventional mechanics, spelling, and grammar. Also for bicultural and ESL students.
Does not count toward graduation, but does count toward course load. Credit/No Credit grading only.

100. Composition (3)
Prerequisites: A recorded total score of 151 or above on the English Placement Test, or credit in ASAM 1 (or its equivalent) or consent of the instructor.
Writing, revising, and editing non-fiction prose, with emphasis on exposition and argument. Critical reading strategies for research. Satisfies the baccalaureate degree requirement for one course in written composition in English. Also for bicultural and ESL students.
Not open for credit to students with credit in ENGL 100W, ENGL 101, AFRS 100, BIST 100, CHLS 104.

120. Asian American History (3)
Prerequisite/Corequisite: One G.E. Foundation course.
Overview of experiences of people of Asian ancestry in the United States. Major themes include: immigration (labor migration and refugee resettlement); racism and economic conflict; resistance to discrimination, and community building.
Not open for credit to students with credit in ASAM 220.

200. Asian American Inter-Ethnic Relations (3)
Prerequisites: Completion of GE Foundation requirements.
Introduction to a comparative survey of racial/ethnic experiences in the U.S., with a focus on Asian Americans.
Not open for credit to students with credit in AFRS 315, AIS 315, ASAM 315, BIST 319, CHLS 319, CLA 315, WGS 315, WGST 319. Letter grade only (A-F).

215. U.S. Diversity and the Ethnic Experience (3)
Prerequisites: Open only to Integrated Teacher Education Program students.
Survey of four major ethnic groups (American Indian, African American, Latino American, and Asian American) in American society from the colonial era to the present. Special attention to the formation and transformation of each ethnic group and their individual and collective roles in the development of the United States.
Letter grade only (A-F). Some course as AIS 215, AFRS 215, CHLS 215. Not open for credit to students with credit in AFRS 215, AIS 215, BIST 215, CHLS 215. Departments take turns offering the course in the fall semester.

221. Contemporary Issues in Asian America (3)
Prerequisites: Completion of the GE Foundation requirements.
Examination of contemporary issues, including immigration, labor, family, public policy, popular culture, the media, and political activism in Asian America. Focuses on the U.S. in the context of the global economy and Asian diasporas.
Letter grade only (A-F).

260. Introduction to Asian American Literature (3)
Prerequisites: Completion of GE Foundation requirements.
Introduction to representative works by Asian Pacific American authors. Emphasizes interpretation of historical and contemporary Asian American experiences in various literary genres.
Letter grade only (A-F).

290. Special Topics in Asian American Studies (3)
Prerequisite: Consent of instructor.
Topics of current interest in Asian American Studies selected for intensive development.
Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

299. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special research interest.
May be repeated to a maximum of 6 units. Letter grade only (A-F).
Asian American Studies (ASAM)

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

305. Theories and Methods in Asian Studies and Asian American Studies (3)
Prerequisites: Upper-division standing or consent of instructor, completion of the GE Foundation requirements, ASAM 120 or 200. Explores the theories and interdisciplinary methodologies employed in Asian Studies and Asian American Studies. Students will have opportunities to conduct research on topics of their interest. Letter grade only (A-F).

310. Asian Americans and Education (3)
Examines issues and potential of a multi-ethnic classroom for the understanding of, and relating to students of diverse cultural backgrounds, with an emphasis on Asian Americans.

319. The Ethnic Experience in the U.S. (3)
Prerequisite: Completion of GE Foundation requirements. Examines the dynamics of our multicultural society, emphasizing ways in which Asian American, Black American, Mexican American, and American Indian experiences have shaped cultural diversity in the U.S. Same course as ABS 319, AFH 319, CHLS 319, WGS 319. Not open for credit to students with credit in ABS 319, ABS 319, BST 319, CHLS 319, WST 319, WGS 319. (Lecture/Discussion.)

321. Asian and Pacific American Film (3)
Prerequisites: Completion of the Foundation requirements, and upper division status. Employs films as cultural "texts" in exploring issues including race, gender, sexuality, migration, and the politics of representation in Asian and Pacific American communities.

330. Japanese American Experience (3)
A study of the culture, history, and literature of Japanese in America, emphasizing immigrant experience, agricultural contributions, World War II, and generational issues, women in transition and family.

331. Chinese American Experience (3)
A study of the culture, history, and literature of Chinese in America, emphasizing immigrant experience, generational issues, women in transition and family.

332. Korean American Experience (3)
Examines major historical, social, political, and cultural themes that have shaped Korean American experiences, with attention to intersections of race, ethnicity, gender, and class in the U.S. Emphasizes contemporary issues in local communities and transnational connections in the Korean diaspora.

333. Vietnamese American Experience (3)
A study of the culture, history, and literature of Vietnamese in America, emphasizing immigrant experience, generational issues, women in transition and family.

334. Cambodian American Experience (3)
A study of the culture, history, and literature of Cambodians in America, emphasizing refugee and immigrant experiences, generational issues, women in transition and family.

335L. Asian and Latino Immigration Since World War II (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Examines the causes of massive Asian and Latino immigration as well as major contemporary issues in the Asian and Latino communities. Same course as CHLS 335. Not open for credit to students with credit in CHLS 335L. (Lecture and discussion, 3 hours)

340. Asian American Family (3)
Prerequisites: Completion of Foundation courses and upper-division standing. Provides perspectives on the varieties of Asian American families by examining the social, economic, political, and cultural factors that have influenced the development of conventional as well as alternative family forms.

341. Asian American/Chicano and Latino Cinema (3)
Prerequisites: Completion of the Foundation courses. A team-taught course that explores connections between Asian American and Chicano/Latino cinema, with emphasis given to groundings in filmic histories within historical, literary, and cultural studies frameworks. Same course as CHLS 341. Not open for credit to students with credit in ASAM 400.

342. Chicanos, Filipinos, and Popular Cultures (3)
Prerequisites: Completion of the Foundation courses and upper-division status. This course is a team-taught seminar that explores the historical roots of politics of expressive and cultural practices among Chicanos and Filipinos. Special attention will be paid to themes of resistance, gender, migration, imperialism, hybridity, and post-colonial identities and transformations. Same course as CHLS 342. Not open for credit to students with credit in CHLS 342.

345. Asian American Community Analysis (4)
Examines socioeconomic, political, and cultural profile of Asian American communities, as well as role and function of community organizations. Training in community surveys and services. (Lecture, activity)

346. Asian Americans and the Law (3)
Examines the historical and legal status of Asian Americans in the United States, focusing on issues of discrimination and civil rights.

347. Asian Americans and Public Policy Issues (3)
Examines public policy issues, including racial and ethnic discrimination, civil rights violations, disparities in employment opportunities, and cultural and media representation, affecting Asian Americans and other minorities as well as members of the dominant society. (Lecture 3 hours)

352. Filipino/a American Experiences (3)
Examines major historical, social, political, and cultural dimensions of Filipino/a experiences in the United States, focusing on issues of discrimination, civil rights violations, disparities in employment opportunities, and cultural and media representation, affecting Filipino/a Americans and other minorities as well as members of the dominant society. (Lecture 3 hours)

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353. Contemporary Issues in Filipino/American Experiences (3)
Prerequisite: Upper-division standing. Recommended: ASAM 352
Interdisciplinary approach used to examine the social, economic, political, and cultural dimensions of Filipino/American experiences in the United States from 1965 to the contemporary period. Emphasizes specific issues of post-colonial identities, the Philippine Diaspora, patterns of labor, strategies of resistance, and cultural practices.

354. Transnational Filipino Communities (3)
Prerequisite: Upper Division Standing. Recommended: ASAM 352.
Examines the social, economic, political, and cultural realities in the Philippines and their relationship with the formation of transnational Filipino communities.

360. Studies in Asian American Literature (3)
Provides theoretical foundation for the analysis of Asian Pacific American literature. Addresses various issues in contemporary Asian Pacific American literary criticism including transnationalism, historical memory, gender relations, sexuality, and the development of Asian Pacific American literary "aesthetics."

370. Gender and Sexuality in Asian America (3)
Prerequisites: Completion of Foundation courses and upper-division standing.
Explores the diverse historical and contemporary experiences of Asian Americans with respect to gender roles and relationships, family, expressions of desire, as well as the relationships among gender, sexuality, and racial/ethnic identity.

380. Asian Philosophies and Religions in America (3)
Prerequisite: Completion of GE Foundation requirements.
Influence of and changes in Asian philosophies and religions in the American environment. Emphasis on Confucianism, Taoism, Hinduism, Buddhism and Shintoism in relation to individual and social values in America.

381. Asian American Women (3)
Reconstructs and examines Asian American women's history and contemporary experiences. Examines the complexities of intersecting social categories of oppression and Asian American women's active pursuit of equality and dignity.
Same course as WGS 381. Not open for credit to student with credit in HIST 381, WGS 381 or WIST 381. (Lecture)

407. Asians in Latin America (3)
Prerequisites: Upper-division standing or consent of instructor.
Recommended: HIST 161
Examines the diverse histories and experiences of Asians in Latin America. Emphasizes placed on patterns of labor and settlement, socio-economic development of local and transnational communities, formation of ethnic identities, and expressive cultures.
Letter grade only (A-F).

410. Poverty in Asian America (3)
Prerequisites: Completion of Foundation courses, at least one Explorations course, and upper division status.
Examines poverty among Asian Pacific Americans in the context of poverty in the U.S. theories about poverty's causes, anti-poverty policies, and poverty-fighting activities (nonprofit community-based social services, labor organizing, community organizing and advocacy).

490. Special Topics in Asian American Studies (3)
Prerequisite: Consent of instructor.
Topics of current interest in Asian American Studies selected for intensive development. Topics will be announced in the Schedule of Classes.
May be repeated to a maximum of 6 units. Topics will be announced in the Schedule of Classes.

495/495. Seminar in Asian American Studies (3)
Selected topics in Asian American Studies. Area and topics of emphasis will vary from year to year.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special research interest.
May be repeated to a maximum of 6 units.

GRADUATE LEVEL

595/495. Seminar in Asian American Studies (3)
Selected topics in Asian American Studies. Area and topics of emphasis will vary from year to year.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

599. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special research interest.
May be repeated to a maximum of 6 units in different semesters.
Letter grade only (A-F).
American experience in the United States; Chinese Studies provides students with cultural, literary, and linguistic preparatiion; and the Japanese program provides linguistic and cultural training in Japanese language and language related areas. Asian language courses are also appropriate electives to support several of the majors offered by the University.

Students in all programs are encouraged to integrate the study of Asian cultures and societies across the Pacific with that of Asian American communities in the United States and to support the study of culture and society with appropriate language training.

The department curriculum provides students with knowledge and training necessary for (1) various occupations and careers, (2) professional work in the Asian American community, (3) exploring an educational dimension by emphasizing and focusing on ethnic minorities.

Through courses of its own and those of cooperating departments, the Department of Asian and Asian American Studies offers B.A. in Asian American Studies, B.A. and M.A. in Asian Studies, B.A. in Chinese Studies, Single Subject Teaching Credential in Japanese, B.A. in Japanese, Minor in Asian American Studies, Certificate in Asian Studies, Certificate in Asian American Studies, and Certificate in Japanese. The department also offers a Concentration in Japanese and a Concentration in Asian American Studies under Track II of the Bachelor of Arts in Liberal Studies. (See University Programs in this catalog. Additional information and adviso information for the program are available through the department office, F03-340.)

Cambodian (KHMR)

LOWER DIVISION

111. Accelerated Study of Khmer for Heritage Speakers I (4)
Prerequisites: Linguistic competency equivalent of a beginning Khmer speaker; one GE Foundation course that may be taken concurrently.

Linguistic and cultural aspects of Khmer language for heritage speakers. Oral and written communication skills in Khmer. Intensive study of literary, historical, social, and aesthetic traditions of Cambodia as seen through Khmer language and literary texts. Letter grade only (A-F).

211. Accelerated Study of Khmer for Heritage Speakers II (4)
Prerequisites: KHMR 111 linguistic competency equivalent.

Intermediate level linguistic study and cultural aspects of Khmer for heritage speakers. Oral and written communication skills and intensive study of literary, historical, social, and aesthetic traditions of Cambodia through the Khmer language and literary texts. Letter grade only (A-F).

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Korean (KOR)

101. Fundamentals of Korean (4)
Prerequisite/Corequisite: One GE Foundation course.
Introduction to the writing system, pronunciation, vocabulary, and grammar of the Korean language and Korean culture.
Students with previous training or native speakers of Korean may not enroll.

102. Fundamentals of Korean (4)
Prerequisite/Corequisites: One GE Foundation course.
Completion of KOR 101 or competency equivalent to KOR 101.
Introduction to the Korean grammar, reading, writing, and conversation and Korean culture.
Students with previous training or native speakers of Korean may not enroll.

Tagalog (Filipino Language) (TGLG)

LOWER DIVISION

101. Fundamentals of Tagalog (4)
Prerequisite: One GE Foundation course which may be taken concurrently.
Introduction to the pronunciation, grammar, essential vocabulary, reading, and conversation of modern standard Tagalog (Filipino).

102. Fundamentals of Tagalog (4)
Prerequisite: One GE Foundation course which may be taken concurrently. and competency equivalent for TGLG 101.
Introduction to the pronunciation, grammar, essential vocabulary, reading, and conversation of modern standard Tagalog (Filipino).

Vietnamese (VIET)

LOWER DIVISION

111. Accelerated Vietnamese for Heritage Students I (4)
Prerequisite: One GE Foundation course that may be taken concurrently. Conversational ability of Vietnamese.
Designed for students who have listening and speaking ability of Vietnamese. Focuses on Vietnamese literacy and culture, including developing reading and writing skills in context.
Letter grade only (A-F).

211. Accelerated Vietnamese for Heritage Students II (4)
Prerequisite: VIET 111. Ability to speak and comprehend Vietnamese oral and written language at the interpersonal communicative level.
Designed for students who have intermediate listening and speaking ability of Vietnamese and the ability to comprehend simple written Vietnamese texts. Focuses on Vietnamese literacy and culture, including developing reading and writing skills in context.
Letter grade only (A-F).
Introduction

The University sponsors a diverse program of 18 intercollegiate athletic teams and is supervised by the Department of Athletics.

The teams compete under the rules of the National Collegiate Athletic Association, the Big West Conference, and the Mountain Pacific Sports Federation, maintaining membership in each organization. Women's varsity sports are basketball, golf, cross-country, soccer, tennis, indoor/outdoor track and field, volleyball, water polo and softball. Men's varsity sports are basketball, baseball, indoor/outdoor track and field, cross-country, water polo, volleyball, and golf. Students enrolling in intercollegiate athletic programs must meet all NCAA eligibility requirements. Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSULB dedicates to its men's and women's teams may be obtained from Cindy Masner, Department of Athletics, (562) 985-7751.

Students may apply no more than four (4) semester units of lower-division ATHL courses toward the baccalaureate degree within the 20-unit maximum on activity units generally, except that the combined total of lower-division ATHL activity units must not exceed four (4) units and the total of lower-division KIN activity units must not exceed eight (8) units. Upper-division ATHL courses, with the exception of ATHL 325, may be taken one time only and not in conjunction with the lower-division ATHL courses. ATHL 325 may be repeated to a maximum of four (4) semester units and may be taken in conjunction with any other ATHL course.

The California State University is committed to providing equal opportunities to men and women CSU students in all campus programs, including intercollegiate athletics.

Courses (ATHL)

LOWER DIVISION

Intercollegiate Sports (1)
Enrollment subject to approval of the coach of the sport.
Competition in NCAA-regulated sports. Athletes enrolled who fail to qualify for squad must withdraw from course.
May be repeated to a maximum of 4 units, including previously earned credits from SAR 1. Credit/No Credit grading only.

261. Women's Softball
262. Men's Baseball
263. Women's Basketball
264. Men's Basketball
265. Women's Track and Field
266. Men's Track and Field
269. Women's Volleyball
270. Women's Water Polo
271. Men's Water Polo
272. Men's Volleyball
275. Women's Golf
276. Men's Golf
277. Women's Tennis
281. Women's Cross-Country
282. Men's Cross-Country
284. Women's Soccer

UPPER DIVISION

319. Theory and Practice of Minor Intercollegiate Sports (2)
Repeatable credits include previous credits from SAR 319.

320. Theory and Practice of Major Intercollegiate Sports (2)
Repeatable credits include previous credits from SAR 320. Credit/No Credit grading only.

325. Student-Athlete Leadership Development and University Service (1)
Prerequisites: Upper division standing, consent of instructor. Must be an official member of an NCAA Intercollegiate team at CSULB. Junior/seniors honor communication and facilitation abilities to better function within groups, community and careers. Emphasis on experiential learning component with people dynamic and group process skills, academic and athletic information, and how a peer mentor can positively impact that development.
May be repeated to a maximum of 4 units, including previously earned credits from SAR 325. May be taken in conjunction with any other ATHL course. Credit/No Credit grading only.
The biological sciences include all of the areas of scientific endeavor centered around the general question of the nature of life. Such diverse areas as biochemistry, ecology, paleontology, and animal behavior are all part of the biological sciences. The discipline of biochemistry is located in the department of Chemistry and Biochemistry and the discipline of paleontology is located in the department of Geological Sciences. For information about the programs in these disciplines, consult the appropriate section of this Catalog. The remaining disciplines of the biological sciences represented in the College of Natural Sciences and Mathematics are located in the Department of Biological Sciences, which offers five degrees: a Bachelor of Science in Biology, a Bachelor of Science in Marine Biology, a Bachelor of Science in Microbiology, a Master of Science in Biology, and a Master of Science in Microbiology. The B.S. in Biology has, in addition to a general option, six specialized options in Biology Education, Botany, Cell and Molecular Biology, Ecology, Physiology, and Zoology. See below for the specific requirements for each of these degrees and options.

The department occupies facilities in four science buildings. Courses and student research in organismal biology and ecology are enhanced by a marine biology laboratory with an extensive seawater system, greenhouses, and research and teaching collections of algae, vascular plants, invertebrates (including insects), and vertebrates. Because the campus is near the ocean, mountains, and deserts, the department is able to offer a number of field and laboratory courses in botany, ecology, entomology, marine biology, and vertebrate zoology. Courses and student research opportunities are available in biotechnology, experimental biology, and clinical laboratory science (medical technology). State-of-the-art facilities are available for graduate and undergraduate research in the W. M. Keck Cellular and Molecular Biology Laboratory and electron microscopy facility.

The Department of Biological Sciences also participates in the Desert Studies Consortium and the Ocean Studies Institute. Information on the latter program is listed in this Catalog under Ocean Studies Institute.

The Richard B. Loomis Research Award

This annual departmental award provides supply and travel support for thesis research projects. Graduand students submit research proposals to the department's Graduate Studies Committee, which grants funding to the most meritorious proposals.

Handloser Graduate Student Tuition Grant

The Handloser Graduate Student Tuition Grant is offered to an outstanding M.S. Biology applicant interested in pursuing master's thesis research in the area of marine biology.

Frank Schatzlein Scholarship Award

The Frank Schatzlein Scholarship Award is available to an outstanding undergraduate student in biological sciences, with upper division standing, studying in the area of cellular physiology. Applications can be obtained from the Biological Sciences Department Office during the month of March.

Linda Warren Graham Medical Technology Scholarship

This Linda Warren Graham Medical Technology Scholarship is available to senior microbiology majors who have been accepted into a Clinical Laboratory Scientist (or a Medical Technology) internship program. Scholarship applications can be obtained from the Biological Sciences Department Office during the month of March prior to graduation.
Target Specialty Products Scholarship

The Target Specialty Products Scholarship is designed to reward a hardworking, well-rounded undergraduate majoring in natural sciences or mathematics, with sophomore, junior or senior class standing. Students applying for this scholarship should be involved in school and community activities, working either full or part-time, and must be interested in exploring future careers that combine science and business. Application forms and information are available in the Department of Biological Sciences office beginning the month of February.

Financial Support, Assistantships

The Department of Biological Sciences offers to graduate students a limited number of teaching assistant and graduate assistant appointments. Forms requesting consideration for these appointments are available in the department’s Graduate Office. Duties consist of approximately 20 hours per week devoted to preparation and/or instruction in general undergraduate laboratory classes. These appointments are limited to a maximum of six semesters per individual.

The department also has a limited number of technical assistant positions as well as some hourly employment. Several members of the faculty have grants that provide for research assistantships. A number of scholarships are available throughout the university.

Graduate and Health Professional Preparation

In addition to preparing students for careers in teaching, industry, and government, the undergraduate programs in this department provide preparation for advanced study at the graduate level and for entry into various health professional schools. Students should consider the degree requirements listed in the Catalog as minimal; some graduate schools, professional schools, or careers may require additional coursework in mathematics, physics, chemistry, or biological sciences.

Students desiring entrance into a graduate school to obtain a master’s or doctoral degree in some area of the biological sciences should determine the entrance requirements for the school(s) of interest early in their undergraduate years. Specifically, students contemplating graduate work in mathematically oriented areas of the biological sciences should consider taking more calculus (MATH 122, 123, 224, and 364A or 370A will substitute for MATH 119A and 119B) and those contemplating graduate work in chemically oriented areas should consider taking additional chemistry (CHEM 251; 320A,B; 377B; 414A,B).

Students desiring entrance into one of the various health-related professional schools including chiropractic, dentistry, medicine, optometry, osteopathy, pharmacy, podiatry, and veterinary, or to a graduate program in physical therapy, should consult with the Health Professions Advising Office in the College of Natural Sciences and Mathematics Jensen Student Access to Science and Mathematics (BAS) Center (F05-109) for more information. Most of these schools do not require students to major in any particular discipline and many do not even require a bachelor’s degree; rather, they want students who have done well in their major and who also took the prerequisite courses required by that particular school.

Facilitated Enrollment into Classes

All entering students who declare a major in a degree program offered by this department must participate in the College of Natural Sciences and Mathematics’ Science Safari to Success (for first time freshmen) or EONS (Enrollment and Orientation in the Natural Sciences and Mathematics for transfer students) Program. These programs are held in June-July for those starting in the Fall Semester and in January for those starting in the Spring Semester. Department advisors will be available to provide an overview of the students’ chosen baccalaureate degree program, to assist with academic advisement, to provide information on the many career opportunities available, and to aid students in enrolling in classes. Contact the Jensen Student Access to Sciences and Mathematics Center (F05-109) or department office for additional information.

Undergraduate Programs

Bachelor of Science in Biology

This degree includes a general option in biology and six additional options for those desiring a more specialized program.

Biology (code BIOLBS01) (120 units)

This degree major is designed for students pursuing careers that involve the study of life. It is especially appropriate for those contemplating graduate work in the biological sciences. This option gives the student a broad background involving coursework in most of the major areas of biology, without requiring specialization in any one particular field. Students in this option have more elective courses in their major than in the other, more specialized options, which enables them to partially concentrate their studies in a particular area if they so choose. Because of this, students may not combine this option with any other in the B.S. in Biology nor with the B.S. in Marine Biology or Microbiology as part of a dual major. This option requires approximately 82-84 units in the major, of which 39-41 are in lower division and 43 are in upper division. All students must achieve at least a 2.0 grade-point average in each of the following: 1, the entire college record; 2, all units attempted at CSULB; 3, all courses in the major, and 4, all upper division courses in the major completed at CSULB.

Lower Division: BIOL 111, 111L, 212, 212L, 213, 213L, 260; CHEM 111A,B; MATH 119A or 122; 119B or 123; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MIGR 101 and 200.

Upper Division: CHEM 322A,B and 329A,B; at least 34 units in biological science including BIOL 312, 340, 345, 345L, 350, 370, 450; one of BIOL 313, 316, 324; one of BIOL 427, 439; and 9 additional units selected from upper division courses in the Department of Biological Sciences. At least two of the courses selected to fulfill these additional units must have numbers between 410-499. Either CHEM 441A,B or 448 will count toward these additional 9 units. Up to 6 of these additional units may be substituted from courses in other departments in the College of Natural Sciences and
Mathematics upon approval by the undergraduate advisor. Students may use from 1-3 units of BIOL or MIRC 496 towards the 9 additional units of upper division course work but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308, MIRC 300I, and NSCI 492.

Option in Biology Education (code BIOBLS092) (120 units)

This option is designed solely for students who wish to become secondary school Biology teachers. This option requires 82-92 units in the major, of which 50-52 are lower division and 32-40 are upper division. Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

Completion of the Biological Sciences Concentration meets the subject matter competence requirement for the Preliminary Credential, prospective Biology teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete many of the credential program courses as an undergraduate. Courses may also be counted as post-baccalaureate courses. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.cod.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

The Biological Sciences Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: ASTR 100; BIOL 151, 111, 111L, 212, 212L, 213L, 213L; CHEM 111A,B; both GEOL 102 and 104 or 106; MATH 119A or 122, M/C 200 or 211; and PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 200, 200L, 205, 205L, 207, 208, 305, and MIRC 101.

Upper Division: CHEM 327 or all four of CHEM 322A,B and 323A,B; SCED 404; and nine additional courses totaling 26-29 units in the biological sciences including BIOL 312, 340, 345 or 447, 350, 370, 480; one of these two plant biology courses: BIOL 427, 439; and one of these three animal biology courses: BIOL 304, 316, 320. The remaining biological science courses should be chosen in consultation with an advisor. BIOL 495/MIRC 496 is highly recommended. Either CHEM 441A, B or 448 will count toward this additional required course. Students may use BIOL or MIRC 496 as one of the nine required upper division courses but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308; MIRC 300I; and NSCI 492.

Although SCED 403 and EDSS 300C are not required in the major, the credential does require these courses. Students may want to take some of them prior to graduation.

Option in Botany (code BIOBLS03) (120 units)

This option is designed primarily for those interested in careers involving the biology of plants and is particularly appropriate for those contemplating graduate work in this field. This option requires approximately 80-82 units in the major, of which 39-41 are in lower division and 41 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOL 111, 111L, 212, 212L, 213, 213L, 216; CHEM 111A,B, MATH 119A or 122, 119B or 123, PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305, MIRC 101 and 200.

Upper Division: 41 units including CHEM 322A,B and 323A,B; BIOL 340, 350, 370, 427, 439, 447, 450, 480. Remaining 8 units selected in consultation with appropriate faculty advisor. CHEM 441A or 448 will count toward these eight units. Students may use 1-3 units of BIOL 496 towards the remaining eight units but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308; MIRC 300I; and NSCI 492.

Option in Cell and Molecular Biology (code BIOBLS04) (120 units)

This option is designed primarily for those interested in careers that involve biology at the cell and molecular levels and is particularly appropriate for those contemplating graduate work in these fields. This option requires 84-87 units in the major, of which 44-46 are in lower division and 40-41 are in upper division. Students in this option might also want to pursue the Certificate in Biotechnology described elsewhere in this catalog.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOL 111, 111L, 212, 212L, 213, 213L, 250; CHEM 111A,B, MATH 119A or 122, 119B or 123; MIRC 211; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305, MIRC 101 and 200.

Upper Division: CHEM 322A,B and 323A,B; CHEM 441A,B; BIOL 340, 350, 370, 427, 439, 440, 480; nine additional courses selected from BIOL 431, 443, 445, 447, 464, 465 or 467, 473, 477; CHEM 547; MIRC 430, 416. Students may use 3 units of BIOL 496 towards the three courses but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308; MIRC 300I; and NSCI 492.
Option in Ecology (code BIOBLS05) (120 units)

This option is designed for students interested in careers involving the study of organisms in relation to their environment, either in private industry or government service, as well as those students contemplating graduate work in this field. This option requires approximately 86-95 units in the major, of which 43-45 are in lower division and 43-50 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOI 111, 111L, 212, 212L, 213, 213L, 260; CHEM 11A,B; GEOL 102, 104 or 105, MATH 110A or 112, 119B or 123; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOI 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MIRC 101 and 200.

Upper Division: CHEM 322A,B and 323A,B; BIOI 312, 340, 345, 345L, 350, 370, 427, 498; one of BIOI 313, 316 or 324; four additional courses including one of these 10 in organismal diversity: BIOI 313, 316, 324, 411, 419, 421, 424, 425, 439; one of these 10 in ecology and environmental science: BIOI 420, 450, 451, 452, 453, 454A, 454B, 455, 457; one of these in quantitative biology: BIOI 412, 456, 463, 465, 467; and another course from any of the preceding three lists or BIOI 353, 355, 355L, 444, 445, 450, 464; GEOG 440, 473, 481; GEOL 339. Students may use 3 units of BIO 496 as this fourth additional course but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOI 301, 304, 308; MIRC 300; and NSCI 492.

Few, if any, health-related professional schools (e.g., veterinary medicine) will accept CHEM 327. Students interested in these programs might consider taking CHEM 322A,B and 323A,B. CHEM 327 is not acceptable as a prerequisite for CHEM 441A,B. CHEM 327 is acceptable toward the Minor in Chemistry.

Option in Zoology (code BIOBLS07) (120 units)

This option is designed primarily for those interested in careers that involve the biology of animals and is particularly appropriate for those contemplating graduate work in this field. This option requires approximately 86-88 units in the major, of which 43-46 are in lower division and 43 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOI 111, 111L, 212, 212L, 213, 213L, 260; CHEM 11A,B; MATH 110A or 122, 119B or 123; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOI 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MIRC 101 and 200.

Upper Division: CHEM 322A,B and 323A,B; CHEM 441A,B; BIOI 340, 350, 370, 480. Two tracks exist for remaining upper division courses.

Pre-physical Therapy Track: BIOI 341, 441, and either BIOI 434 or HHS 401, plus six additional units selected from BIOI 345, 433, 443, 444, 445, 447, 448, 449, 464; HHS 471; MIRC 430.

General Physiology Track: BIOI 342, 342L or 345, 345L, and either BIOI 433, plus nine additional units selected from BIOI 342, 345, 343, 443, 444, 445, 446, 447, 448, 449, 460; MIRC 423, 430. Students may use 1-3 units of BIO 496 towards the additional units but only with prior permission of the advisor for this option.

The following courses do not meet any specific or elective requirements for this major: BIOI 301, 304, 308, MIRC 300; and NSCI 492.

Option in Physiology (code BIOBLS06) (120 units)

This option is designed primarily for those interested in careers involving the study of function in animals, especially humans, and is particularly appropriate for those contemplating graduate work in this field or entering one of the health professions, such as medicine and physical therapy. This option requires 79-83 units in the major, of which 39-41 are in lower division and 41-43 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, 3. all courses in the major, and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOI 111, 111L, 212, 212L, 213, 213L, 260; CHEM 11A,B; MATH 110A or 122, 119B or 123; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOI 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MIRC 101 and 200.

Upper Division: CHEM 322A,B and 323A,B; BIOI 312, 340, 345, 345L, 350, 370, 411, 419, 421, 424; and at least two additional courses in biological sciences totaling at least six units chosen in consultation with a faculty advisor. Either CHEM 441A,B or 448 will count toward those six units. Students may use 1-3 units of BIO 496 towards the remaining nine units but only with prior permission of the advisor for this option. The following courses do not meet any specific or elective requirements for this major: BIOI 301, 304, 308; MIRC 300; and NSCI 492.

Bachelor of Science in Marine Biology (code BIOBLS08) (120 units)

This degree program requires approximately 86-93 units in the major, of which 42-44 are in lower division and 44-49 are in upper division. The number of units and particular blend of science and mathematics makes this a very challenging learning experience. However, the depth and strength of this degree provides a strong and
flexible base to pursue a variety of careers. Obtaining a minor in another discipline, such as chemistry, microbiology, engineering, business, or computer science, may enhance one's marketability. All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record; 2. all units attempted at CSULB; 3. all courses in the major; and 4. all upper division courses in the major completed at CSULB.

Lower Division: BIOL 153, 111L, 212, 212L, 213, 213L, 260; CHEM 111A,B; MATH 119A or 122, 119B or 123, PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 200, 200L, 205, 205L, 207, 208, 305; MIRC 101 and 200.

Upper Division: CHEM 327 or all four of CHEM 322A,B and 323A,B; BIOL 313, 340, 345, 345L, 350, 355, 370, 419, 425, 480; GEOL 465 and 466; a minimum of three courses from the following ten courses in marine sciences: BIOL 411, 420, 449, 451, 454A, 455, 457, 464; BIOL/MICR 415; and, with prior permission of the marine biology advisor for both BIOL 490, and 3 units of BIOL 496. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308; MIRC 300; and NSCI 492.

Few, if any, health-related professional schools (e.g., veterinary medicine) will accept CHEM 327. Students interested in these programs might consider taking CHEM 322A,B and 323A,B. CHEM 327 is not acceptable as a prerequisite for CHEM 441A. CHEM 327 is acceptable toward the Minor in Chemistry.

Bachelor of Science in Microbiology (code BIOLBS09) (120 units)

Microbiology is the study of microorganisms and their interactions with humans, other organisms, and the environment. This degree, with the inclusion of appropriate classes, may be utilized by pre-professional students who are preparing for medical, dental, pharmacy, and veterinary school. A major in microbiology prepares students for a wide range of employment opportunities in clinical and public health fields, biotechnology, environmentally related fields, and industries concerning food, water quality, pharmaceuticals, and medical equipment and supplies. There is a core of courses for each of these varied educational and employment opportunities and specific programs can be arranged by counseling with microbiology advisors in the department. This undergraduate major is recognized by the American Society for Microbiology as meeting their core curriculum for the baccalaureate degree program in microbiology. This major requires 83-84 units, of which 37-38 are in the lower division and 46 are in upper division. All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record; 2. all units attempted at CSULB; 3. all courses in the major; and 4. all upper division courses in the major completed at CSULB.

Lower Division Requirements: BIOL 111, 111L, 212, 212L, 260; CHEM 111A,B; MATH 119A or 122; MIRC 211; PHYS 100A or 151, 100B or 152. The following courses do not meet any specific or elective requirements for this major: BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MIRC 101 and 200.

Upper Division Requirements: CHEM 322A,B and 323A,B; CHEM 441A,B; BIOL 340, 480; MIRC 320, 355, 371, 372, 430, 471; and a minimum of 11 additional elective units chosen from: BIOL 473, 477, MIRC 320L, 322, 325, 355L, 423, 429, 430L, 441, 473, 490, and 495. Students may use MIRC 496 towards the additional units but only with prior permission of the advisor for this degree. Those students seeking a career as a Clinical Laboratory Scientist/Medical Technologist are encouraged to take MIRC 320L, 416, 423 and 430L. The following courses do not meet any specific or elective requirements for this major: BIOL 301, 304, 308; MIRC 300; and NSCI 492.

Bachelor of Science Degree with Honors in Biology, Marine Biology, or Microbiology

Students majoring in the B. S. in Biology (all options), B. S. in Marine Biology, or B. S. in Microbiology who would like an enriched academic program, including an intensive research experience, may be eligible to graduate with Honors in the Major through the University Honors Program. Students may also complete General Honors through the University Honors Program, in which case the General Honors thesis requirement is met through Honors in the Major (see University Honors in this Catalog).

Students interested in graduating with Honors in the Major should participate in a series of courses designed to introduce central concepts in biology (BIOL 110H), develop critical thinking and communication skills (special section of UHP 100), and introduce the rapidly emerging field of bioinformatics. In addition, they may join a learning community of students with similar interests and benefit from mentoring by faculty members.

This Honors in the Major program was created with the support of a grant from the Howard Hughes Medical Institute. Students interested in Honors in the Major may be eligible to receive monetary support from a variety of sources for completion of their honors research and thesis.

Students who have successfully completed the lower division Honors in the Major curriculum will receive priority for research fellowship support to the extent that it is available.

Additional details about this program, including availability of fellowship support, are available from the Honors in the Major Program Advisor.

Requirements for Admission

1. Junior or senior standing with at least one year remaining before graduation.
2. Declared major of B. S. in Biology (any option), B. S. in Marine Biology, or B. S. in Microbiology.
3. Completion of BIOL 111, 111L and 212, 212L, and 213, 213L, (or BIOL 211A,B), 260; CHEM 322A,B and 323A,B (or CHEM 320:L) at time of entry with grades of at least a "C" in each course.
4. Students may apply during the semester in which they expect to complete those courses.
5. Submission of an application describing the student's academic background, reasons for applying (including a description of any previous research experience), and willingness to commit to a year-long research experience.

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6. Letter of recommendation from a CSULB faculty member familiar with the student's work and abilities.

Requirements for Graduation
1. GPA of at least 3.300 in all upper division courses in the major and in Honors courses.
2. Completion of all requirements for the chosen degree in the Biological Sciences.
3. Completion of BIOL 466H, Research Design and Methods - Honors (3 units).
4. Completion of 3 units of BIOL 496, Undergraduate Directed Research.
6. Presentation of research results in a public forum. This requirement may be met by presentation at a scientific conference or at a local venue; consult the Program Director for additional information.
Substitutions to this program must be approved by the Honors in the Major Program Advisor.

Minor in Biology (code BIOLU01)
This minor may be combined with any major at CSULB except the B.S. in Biology (all options), B.S. in Microbiology, and B.S. in Marine Biology.
A minimum of 21 units is required for the minor.
Lower Division: BIOL 111L, 111L, 212, 212L, 213, 213L (111, 212 requires CHEM 111A; 213 requires CHEM 111B.)
The following courses do not meet any specific or elective requirements for this minor; BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305, MICR 101 and 200.
Upper Division: A minimum of nine units selected from upper division biology courses with at least one course selected from the 400 series. The following courses do not meet any specific or elective requirements for this minor: BIOL 301, 304, 308, MICR 300L, 426, and NSCI 492.

Minor in Physiology (code BIOLU03)
This minor may be combined with any major at CSULB except the B.S. in Biology, Option in Physiology. The following courses do not meet any specific or elective requirements for this minor; BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MICR 101 and 200.
A minimum of 18 upper division units. Twelve of these 18 units must be selected from the following courses: BIOL 341, 342, 342L, 345, 345L, 443, 445, 446, 460. The other six of these eighteen units must be selected from other courses in the above list or from BIOL 473; CHEM 441A, B, 443, or 446. At least one of the upper division courses taken for this minor must be a laboratory. Most of these upper division courses require CHEM 111A, B and BIOL 111L, 212, 212L, 213, 213L as prerequisites; some have other prerequisites in addition. The following courses do not meet any specific or elective requirements for this minor: BIOL 301, 304, 308; MICR 300L; and NSCI 492.

Minor in Microbiology (code BIOLU04)
This minor may be combined with any major at CSULB except the B.S. in Microbiology. A minimum of 21 units which must include:
Lower Division: MICR 211. The following courses do not meet any specific or elective requirements for this minor:
Upper Division: MICR 320, 430, and 416; plus a minimum of five units from the following: MICR 322, 371, 471, and 473.
The following courses do not meet any specific or elective requirements for this minor: BIOL 301, 304, 308, MICR 300L, and NSCI 492.

Certificate Program in Biomedical Art (code ART_CT01)
The Certificate Program in Biomedical Art is an interdisciplinary program sponsored by the Art and Biological Sciences Departments. Requirements for the certificate are listed in the Art section of this Catalog. The Director of the CSULB biomedical art program is Robin Richerson, Department of Art.

Certificate in Biotechnology (code BIOLOCT01)
Biotechnology is a rapidly growing field which encompasses many domains of science. Specifically, biotechnology refers to a process which ultimately yields a product. The products can be loosely subdivided into five categories: biological organisms with novel traits, DNA's, RNAs, proteins, and compounds. The Undergraduate Certificate in Biotechnology is the integrated use of specific offerings of the College of Natural Sciences and Mathematics, including the departments of Biological Sciences and Chemistry and Biochemistry. Laboratory facilities and selected courses will serve to provide a fundamental background in the theory and techniques of biotechnology. The certificate may be earned in conjunction with or subsequent to a baccalaureate degree. Courses offered for the certificate may be used to satisfy, as appropriate, major or minor requirements.

Prerequisites for Admission
1. Completion of the following courses with a grade of "C" or better (or consent of the biotechnology certicate program director): CHEM 111A, 111B, CHEM 111A, B or CHEM 222A, 222B and 222B; CHEM 441A, B; BIOL 440; BIOL 470; MICR 211. The following courses do not meet any specific or elective requirements for this certificate: BIOL 153, 153L, 200, 200L, 205, 205L, 207, 208, 305; MICR 101, and 200.

Requirements
1. A baccalaureate degree (can be concurrent);
2. Completion of the program's prerequisite course requirements;
3. Approval by the program director;
4. Completion of the Core Curriculum: BIOL 477/577 (4); NSCI 492 (3); BIOL 473/573 (3); BIOL 490/590 (1); additional 3 units to be selected in consultation with the program director;
5. Completion of 3 units consisting of an approved research project in biotechnology to be taken from one or more of the following: BIOL 456; CHEM 456; or MICR 456 (undergraduate students); BIOL 697; CHEM 697; or MICR 697 (graduate students);
6. BIOL 301, 304, 308 and MICR 300L do not meet any specific or elective requirements for this certificate.
7. Total Units Required for Certificate: 16 units.
Concurrent and/or Summer Enrollment in Another College

Students who wish to take coursework in a community college or another college to meet curricular requirements while enrolled as undergraduates in the College of Natural Sciences and Mathematics must petition the appropriate department for prior approval to enroll in specific courses. This policy applies to concurrent enrollment or summer enrollment. University policy must also be met. See 'Concurrent Enrollment' and 'Transfer of Undergraduate Credit' in this catalog. Courses not receiving prior approval will not be accepted for credit by the department.

GRADUATE PROGRAMS

Master of Science in Biology (code BIOLMS01)

The available programs in this degree cover a wide spectrum of biology and include both laboratory and field study. This degree requires a thesis based on original scientific research; a list of research areas with the names of faculty specializing in these areas can be obtained from the department's graduate office.

Admission to the Department

Prerequisites

In addition to the prerequisites for entrance into CSULB as a graduate student, stated previously in this catalog under Graduate Degrees and Post Baccalaureate Studies, the Department of Biological Sciences requires:

1. A bachelor's degree in the biological or related sciences from an accredited institution. In some cases, deficiency classes may be assigned by the Thesis Advisor in consultation with the Graduate Advisor prior to the student’s first semester. Students with alternative undergraduate degrees will be considered, but they will likely be assigned deficiency courses by the Thesis Advisor in consultation with the Graduate Advisor.

2. An undergraduate GPA in all completed science and mathematics courses of at least 2.70, or a GPA of at least 3.00 in the last 40 semester (60 quarter) units of science and mathematics courses completed.

3. The Graduate Record Examination General Test, which must have been taken prior to applying to the Department. Scores are utilized as indicators for potential success in the M.S. program in Biology. Students who do not have a degree in Biology (or a related field approved by the Department) must also take the Subject Test in Biology or in Biochemistry, Cell, and Molecular Biology. The GRE Test(s) must have been taken within five years prior to the intended admission date.

After admission into the M.S. program in Biology, a student is required to find a faculty Thesis Advisor prior to his or her first semester.

Application

Prospective graduate students in the M.S. in Biology program, including CSULB graduates, must formally apply for admission to the university as described previously in this catalog and must also apply directly to the Department of Biological Sciences. All applicants must submit the following documents directly to the department no later than 15 March for the fall semester in order to receive consideration for admission:

1. Departmental Application Form (pdf), also available from the Department's Graduate Office;
2. A one-page essay describing why the applicant wishes to obtain an M.S. degree in Biology at CSULB and how this relates to her/his career objectives;
3. Official transcripts of all college level academic work, including those completed at CSULB (these are in addition to those transcripts required for general graduate admission to CSULB);
4. Three letters of recommendation from persons familiar with the applicant's academic performance and research potential (if also applying for a Teaching Associate position, the letters must refer to the applicant's potential to teach laboratory sections in the biological sciences); and
5. Official report of scores on the Graduate Record Examination General Test. The applicant should have taken this examination prior to applying to the department, such that the official scores will reach the department by the deadline above. Applications with pending GRE scores will be considered for admission into the M.S. Program in Biology after the official GRE scores become available.

These materials must be submitted to the Graduate Office, Department of Biological Sciences, California State University, Long Beach, 1250 Bellflower Blvd, Long Beach, CA 90840-3702.

Review by the Graduate Studies Committee

The Graduate Studies Committee will review all applications completed by the deadlines. Admission into the M.S. Program in Biology is competitive, with an applicant's college GPA, GRE Test scores, one-page essay, and letters of recommendation weighed in the decision to accept or decline. Applicants who are admitted into the program will enter as either a Classified or Conditionally Classified Graduate Student, as described below. All admitted students must contact the Graduate Advisor prior to their first semester for counseling and orientation.

Admission to the Department of Biological Sciences as a Classified Graduate Student

The Department of Biological Sciences may admit as a Classified Graduate Student any applicant who:

1. has met all prerequisites,
2. has a complete application folder, and
3. has obtained acceptance by a faculty member to serve as her/his Thesis Advisor.

Admission to the Department of Biological Sciences as a Conditionally Classified Graduate Student

An applicant who fails to meet the above criteria for Classified Graduate Student and who falls into one of the following two categories may be considered by the Graduate Studies Committee for admission as Conditionally Classified Graduate Student:

1. An applicant with GPA deficiencies: An undergraduate GPA in science and math courses between 2.50 and 2.75 and a GPA in the last 40 semester (60 quarter) units of science and math courses between 2.75 and 3.00 may be allowable for admission as a Conditionally Classified graduate.
student, if an applicant has first obtained a Thesis Advisor. The Thesis Advisor must indicate in writing to the Graduate Studies Committee her/his willingness to serve as the Thesis Advisor and the reasons why the Graduate Studies Committee should admit the applicant. Conditionally Classified students must then complete, with a grade of "A" or "B", three courses (totaling at least nine units) approved by the Graduate Studies Committee and Thesis Advisor, prior to attaining Classified status. These approved courses must be taken during the first year of the program, and may appear on the student's Graduate Program of Study. If the student receives less than a "B" in any of the three courses, he/she will be dropped from the M.S. in Biology program.

2. An applicant with course deficiencies: The Graduate Advisor and student's Thesis Advisor will determine whether academic deficiencies exist for the particular field of study to be undertaken. Which course(s) must be taken to make up those deficiencies will be indicated on the back of the departmental application form. Such courses must be taken in addition to the minimum 30 units on the student's Program of Study (see below). The applicant must make up all deficiencies before attaining Classified status.

The Thesis Proposal and Program of Study

After admission to the Department under Classified or Conditionally Classified status, the student, in consultation with the Thesis Advisor, must prepare the Thesis Proposal and complete the Program of Study, that is, all coursework to be taken. The Thesis Proposal must include a thorough review of relevant primary literature that demonstrates the context of the proposed research, it must clearly define the experiments proposed for the research in question, and should include preliminary data, if available. The student and his/hers Thesis Advisor will select at least two additional members to serve on the Thesis Committee. In most cases, the Thesis Advisor will serve as Chair of the Thesis Committee. However, if the Thesis Advisor is not eligible, another member of the Thesis Committee will need to serve as Chair of the Thesis Committee. The student will then have a formal meeting with the Thesis Committee, at which the student’s Thesis Proposal and Program of Study will be evaluated. At this meeting, the student is expected to present the Thesis Proposal to the committee, and the committee will question the student. At the completion of this meeting, the Thesis Committee will make a brief decision without the student present, to approve the Thesis Proposal. Approval is based on whether the student has demonstrated a solid understanding of his/her thesis project.

The Program of Study must include six units of Thesis (BIOL 698), one to three units of Directed Research (BIOL 697), two units of Experimental Design (BIOL 696A), two units of Scientific Communication (BIOL 696B), one unit of Seminar BIOL 590, and four units from: BIOL 661, 663, 664, 665, 666, MICR 661, or CHEM 650A; BIOL 661-666 and MICR 661 topics must be different. Of the minimum 30 units, no more than six may come from BIOL 661-666, and no more than two units of CHEM 650A; no more than six may be from transfer credit, and no more than one 300-level course may be included. Any 300-level course on a graduate program of study must be approved by the Thesis Advisor and the Graduate Advisor. BIOL 696A will be taken during the student's initial fall semester; the course will cover experimental design, statistics, and literature research, and it will help students in preparing their Thesis Proposal. BIOL 696B will be taken during the first spring semester in the program, and will cover both oral and written scientific presentation. BIOL 696B is intended to facilitate manuscript and thesis writing and to help students learn to articulate their findings for their thesis defense.

The Program of Study and Thesis Proposal must be established, presented and approved by the Thesis Committee before the end of the second semester after admission to the Department. Failure to meet these requirements will result in dismissal from the Department's M.S. in Biology program.

Advancement to Candidacy

In addition to the general University requirements stated previously under Post-Baccalaureate and Graduate Degrees in this Catalog, the student must complete the following steps before receiving Master's Candidate status in the Department of Biological Sciences:

1. Admission to the Master's Degree program in Biology as a Classified graduate student (see above).
3. Satisfactory academic progress;
4. Satisfactory fulfillment of the Graduation Writing Assessment Requirement (GWAR).

The Thesis Committee will recommend the student for advancement to candidacy by forwarding its recommendation to the Department Graduate Advisor. This should occur at least one year before graduation. Upon approval by the College's Associate Dean, the student will attain Master's Candidate status.

Requirements for the Master of Science in Biology

The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to the general University requirements stated previously in this Catalog, the student must meet the following requirements before receiving the degree of Master of Science in Biology.

The requirements are:

1. Advancement to Master's Candidate status (see above);
2. Maintenance of a 3.00 ("B" average), or better overall GPA (includes all upper-division and graduate level courses taken since admission to this University and after completion of the baccalaureate degree) and graduate program GPA. If either GPA falls below 3.00, it must be elevated to a 3.00 at the end of the following semester or the student will be dismissed from the M.S. program in Biology;
3. Successful completion of the following: written thesis and public defense followed by a private defense with the Thesis Committee; and
4. Service as a Teaching Associate or Graduate Assistant.

Requests to graduate must be received by Enrollment Services approximately 6 months in advance of the expected graduation date (Check the Schedule of Classes for the date). These degree requirements must be completed within 6 years from when the first course on the Program of Study was completed, including academic leaves, or the student's degree program will be terminated.
Master of Science in Microbiology
(code BIOLMS02)

This degree is available to qualified students preparing for professional careers in industry and government and for further studies at the doctoral level. In addition, a master's degree in microbiology, combined with appropriate courses in education, can be utilized for a community college teaching credential.

Admission to the Department

Prerequisites

In addition to the prerequisites for entrance into CSULB as a graduate student, stated previously in this Catalog under Graduate Degrees and Post Baccalaureate Studies, the Department of Biological Sciences requires:

1. A bachelor's degree or its equivalent with course work in microbiology, cell biology, and biochemistry appropriate for a science major and obtained from an accredited institution;

2. An undergraduate grade point average in all completed science and mathematics courses of at least 2.70, or a grade point average of at least 3.00 in the last 40 semester (60 quarter) units of science and mathematics courses completed; and

3. The Graduate Record Examination (GRE) General Test, which must have been taken prior to applying to the department. Scores are utilized as indicators for potential success in the M.S. program in Microbiology. Students who do not have a degree in microbiology or biology (or a related field approved by the department) must also take the Subject Test in Biology or in Biochemistry, Cell, and Molecular Biology. The GRE Test(s) must have been taken within five years prior to the intended admission date.

After admission into the master of science program in microbiology, a student is required to find a faculty Thesis Advisor prior to his/her first semester.

Application

Prospective graduate students in M.S. in Microbiology, including CSULB graduates, must formally apply for admission to CSULB as described previously in this catalog and must also apply directly to the Department of Biological Sciences. All applicants must submit the following documents directly to the department no later than 15 March for the fall semester to receive consideration for admission:

1. Departmental Application Form (pdf), also available from the Department's Graduate Office;

2. A one page essay describing why the applicant wishes to obtain an M.S. degree in Microbiology at CSULB and how this relates to her/his career objectives;

3. Official transcripts of all college level academic work, including that done at CSULB (these are in addition to those transcripts required for general graduate admission to CSULB);

4. Three letters of recommendation from persons familiar with the applicant's academic performance and research potential (if applying for a Teaching Associate position, the letters must refer to the applicant's potential to teach laboratory sections in the biological sciences); and

5. Official report of scores on the Graduate Record Examination General Test. The applicant should have taken this examination prior to applying to the department, because the official scores must reach the department by the deadline above. Applications with pending GRE scores will be considered for admission into the M.S. Program in Microbiology after the official GRE scores become available. These materials must be submitted to the Graduate Office, Department of Biological Sciences, California State University, Long Beach, 1260 Bellflower Blvd., Long Beach, CA 90840-3702.

Review by the Graduate Studies Committee

The Graduate Studies Committee will review all folders completed by the deadlines and either accept the applicant as a Classified or Conditionally Classified graduate student or deny admission. Acceptance is competitive and the GPA, the GRE Test scores, one-page essay, and the letters of recommendation will be weighed in the decision to accept or reject an applicant. All accepted students must contact the Graduate Advisor prior to their initial semester for counselor and orientation.

Admission to the Department of Biological Sciences as a Conditionally Classified Graduate Student

An applicant who fails to meet the criteria above for Classified admission to the department and who falls into one of the following two categories may be considered by the Graduate Studies Committee for admission as Conditionally Classified graduate student:

1. An applicant with GPA deficiencies: An undergraduate GPA in science and math courses between 2.50 and 2.75 and a GPA in the last 40 semester (60 quarter) units of science and math courses between 2.75 and 3.00 may be allowable for admission as a Conditionally Classified graduate student, if an applicant has first obtained a Thesis Advisor. The Thesis Advisor must indicate in writing to the Graduate Studies Committee her/his willingness to serve as the Thesis Advisor and the reasons why the Graduate Studies Committee should admit the applicant. Conditionally Classified students must then complete, with a grade of "A" or "B", three courses (totaling at least nine units) approved by the Graduate Studies Committee and Thesis Advisor, prior to attaining Classified status. These approved courses must be taken during the first year of the program, and may appear on the student's Graduate Program of Study. If the student receives less than a "B" in any of the three courses, he will be dropped from the M.S. in Microbiology program;

2. An applicant with course deficiencies: The Graduate Advisor and student's Thesis Advisor will determine whether academic deficiencies exist for the particular field of study to be undertaken. Which course(s) must be taken to make up these deficiencies will be indicated on the back of the department application form. Such course(s) must be taken in addition to the minimum 30 units on the student's Program of Study (see below). The applicant must make up all deficiencies before attaining Classified status.

3. An applicant who meets all prerequisites but who does not yet have a chair for the thesis committee. It is the responsibility of the student to obtain a chair and set up a proposed graduate program by the end of the second semester in residence following admission to the Master of science program or they will be dropped from the program.
Admission to the Department of Biological Sciences as a Conditionally Classified Graduate Student

An applicant who fails to meet the criteria above for Classified admission to the department and who fails into one of the following two categories may be considered by the Graduate Studies Committee for admission as Conditionally Classified graduate student:

1. An applicant with GPA deficiencies: An undergraduate GPA in science and math courses between 2.50 and 2.75 and a GPA in the last 40 semester (60 quarter) units of science and math courses between 2.75 and 3.00 may be allowable for admission as a Conditionally Classified graduate student, if an applicant has first obtained a Thesis Advisor. The Thesis Advisor must indicate in writing to the Graduate Studies Committee his/her willingness to serve as the Thesis Advisor and the reasons why the Graduate Studies Committee should admit the applicant. Conditionally Classified students must then complete, with a grade of "A" or "B", three courses (totaling at least nine units) approved by the Graduate Studies Committee and Thesis Advisor, prior to attaining Classified status. These approved courses must be taken during the first year of the program, and may appear on the student's Graduate Program of Study. If the student receives less than a "B" in any of the three courses, s/her will be dropped from the M.S. in Microbiology program.

2. An applicant with course deficiencies: The Graduate Advisor and student's Thesis Advisor will determine whether academic deficiencies exist for the particular field of study to be undertaken. Which course(s) must be taken to make up those deficiencies will be indicated on the back of the departmental application form. Such courses must be taken in addition to the minimum 30 units on the student's Program of Study (see below). The applicant must make up all deficiencies before attaining Classified status.

3. An applicant who meets all prerequisites but who does not yet have a chair for the thesis committee. It is the responsibility of the student to obtain a chair and set up a proposed graduate program by the end of the second semester in residence following admission to the master of science program or they will be dropped from the program.

The Thesis Proposal and Program of Study

After admission to the department as a Classified or Conditionally Classified graduate student, the student, in consultation with the Thesis Chair, must establish a Program of Study that includes the program of classes and a Thesis Proposal. The student and Thesis Chair will select at least two additional members to serve on the student's Thesis Committee. Each student must prepare a written Thesis Proposal for approval by the student's Thesis Committee. The Thesis Committee will meet with the student to determine what courses the student must take and indicate them on the M.S. in Microbiology Graduate Program Form.

The Program of Study will include the completion of a minimum of 30 semester units. At least 20 of these units must be in the 500-600 level courses of which a minimum of 16 units must be in the Microbiology 500-600 series. Required courses, if not taken previously, include: Micro 371 or an upper division/graduate course in genetics; Micro 471 or an upper division/graduate course in cell physiology; Micro 661 (two enrollments with different topics for a total of 4 units is required); Botany 696A (2 units), Botany 696B (2 units), Micro 697 (maximum of 3 units); and Micro 696 (6 units). Other elective units included in the graduate program must be 500-600 level courses acceptable to the University and microbiology degree program. Up to 5 units of 300-level courses may be included with an approval from the Thesis Chair and Graduate Advisor. Micro 696A will be taken during the student's initial fall semester, the course will cover experimental design, statistics, and literature research, and it will help students in preparing their Thesis Proposal. Micro 696B will be taken during the first spring semester in the program, and will cover both oral and written scientific presentation.

Advancement to Candidacy

The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to the general university requirements stated previously under Post-Baccalaureate and Graduate Degrees in this Catalog, the student must complete the following steps before receiving Candidate status in the Department of Biological Sciences:

1. Admission to the Department of Biological Sciences' Master's Degree program as a Classified graduate student (see above);
2. Acceptance of the Thesis Proposal and Program of Study by the Thesis Committee;
3. Satisfactory academic progress;
4. Satisfactory fulfillment of the Graduate Writing Assessment Requirement (GWAR).

The Thesis Committee will recommend the student for advancement to candidacy by forwarding its recommendation to the department Graduate Advisor. This should occur at least one year before graduation. Upon approval by the College's Associate Dean, the student will attain Master's Candidate status.

Requirements for the Master of Science in Microbiology

In addition to the general University requirements stated previously in this Catalog, the student must meet the following requirements before receiving the degree of Master of Science in Microbiology:

1. Advancement to candidacy (see above);
2. Maintenance of a 3.00 ("B" average) or better, overall graduate grade point average (includes all upper-division and graduate level courses taken since admission to the University and after completion of the baccalaureate degree) and graduate program GPA. If either GPA falls below 3.00, it must be elevated to a 3.00 at the end of the following semester or the student will be dropped from the M.S. in Microbiology program.
3. Successful completion of the following: written thesis and public defense followed by a private defense with the Thesis Committee; and
4. Serve as a teaching associate or graduate assistant. Under some circumstances, this requirement may be waived.

Requests to graduate must be received by Enrollment Services approximately 6 months in advance of the expected graduation date (check the Schedule of Classes for the date).

These requirements must be completed within 6 years from when the first course on the Program of Study was completed, including academic leaves, or this student's degree program will be terminated.

Biology Courses (BIOL)

Students pursuing a major or minor in this department may receive unit credit for courses marked with the symbol "W" as a general elective but may not apply the units toward the specific or elective requirements for any degree or option in this department. Majors in this department may, however, take, for general education purposes, interdisciplinary courses offered by this department. All other courses in this department are open to majors and minors but by letter grade only (A-F).

LOWER DIVISION

100.## Biology of the Human Environment (3) F,S
Prerequisites/Corequisites: A course that fulfills one of the Foundation requirements in GE.
Biological perspective on the interaction between humans and their environment. Specifically designed for non-science majors. (Lecture 3 hrs.)

110H. Ideas in the Biological Sciences - Honors (1)
Prerequisite: Consent of instructor.
Examination of the biological and biochemical sciences. Readings and discussions will familiarize participants with advances in biological sciences. Historical context, importance, and scientific and social consequences of these discoveries will be examined. Research faculty in Biological Sciences and Chemistry/Biochemistry introduced. Letter grade only (A-F). (Discussion 1 hr.)

111. Introduction to Evolution and Diversity (3) F,S
Prerequisites/Corequisites: BIOL 111L; CHEM 111A. Intended for majors in the natural sciences.
The first of a three semester introductory sequence. Evolution as a process responsible for biological diversity at all levels: molecular, cellular, organismal, populational, and community. Phylogenetic and taxonomic survey of life. Science as method of inquiry. Letter grade only (A-F). Not open to students with credit in BIOL 211B. (Lecture 3 hrs.)

111L. Introduction to Evolution and Diversity Laboratory (1) F,S
Prerequisites/Corequisites: BIOL 111. Intended for majors in the natural sciences.
Phylogenetic and taxonomic survey of life emphasizing the principles of evolution and science as a method of inquiry. Letter grade only (A-F). Course fee may be required. Not open to students with credit in BIOL 211B or 211DL. (Laboratory 3 hrs.)

153. Introduction to Marine Biology (3) F,S
Prerequisites/Corequisites: Courses that fulfill the A.1 and B.2 GE requirements.
Scientific approach to the study of marine organisms and their relationships to the environment. Emphasis on human interaction with marine ecosystems. (Lecture 2 hrs., laboratory and field 3 hrs.) Field trips may be required outside of scheduled class time. Not open for credit to students with credit in BIOL 201.

153L. Introduction to Marine Biology Laboratory (1) F,S
Prerequisite: Open only to students who have successfully completed the equivalent of the lecture portion of BIOL 153 at another accredited institution and have consent of the Department of Biological Sciences. Identical to the laboratory portion of BIOL 153. Students enrolled in BIOL 153L will take it in the same room and at the same time as students enrolled in BIOL 153. Not open for credit to students with credit in BIOL 153L. (Laboratory 3 hrs.)

200.## General Biology (4) F,S
Prerequisites: Completion of GE Foundation requirements.
Brief survey of major areas of biology including cell biology, genetics, evolution, phylogeny, plant and animal anatomy and physiology, ecology, and behavior. Specially designed for non-science majors. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

200L.## General Biology Laboratory (1) F,S
Prerequisite: Open only to students who have successfully completed the equivalent of the lecture portion of BIOL 200 at another accredited institution and have consent of the Department of Biological Sciences. BIOL 200L is identical to the laboratory component of BIOL 200. Students enrolled in BIOL 200L will take it in the same room and at the same time as students enrolled in BIOL 200. Not open for credit to students with credit in BIOL 200L. Course fee may be required. (Laboratory 3 hrs.)

205.## Human Biology (4) F,S
Prerequisites: Completion of GE Foundation requirements.
Brief survey of human biology focusing on anatomy, physiology, and development of cells, tissues, organs, and organ systems including molecular biology, genetics, ecology, evolution, and diversity. Specially designed for non-science majors. Not open for credit to students with credit in A/P 107 or 205. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

205L.## Human Biology Laboratory (1) F,S
Prerequisite: Open only to students who have successfully completed the equivalent of the lecture portion of BIOL 205 at another accredited institution and have consent of the Department of Biological Sciences. Identical to the laboratory portion of BIOL 205. Students enrolled in BIOL 205L will take it in the same room and at the same time as students enrolled in BIOL 205. Not open for credit to students with credit in BIOL 205L. Course fee may be required. (Laboratory 3 hrs.)

207.## Human Physiology (4) F,S
Prerequisites: Completion of GE Foundation requirements.
General introduction to the functional integration of human body systems. Designed for majors in biomedical engineering, physical education, and the allied health fields. Not open for credit to students with credit in A/P 207 or 209. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

208.## Human Anatomy (4) F,S
Prerequisites: Completion of GE Foundation requirements.
Gross anatomy of humans from the cellular to the systemic levels. Intensive laboratory experience including the use of human cadavers. Designed for majors in kinesiology and the allied health fields. Not open for credit to students with credit in A/P 202 or 208. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

212. Introduction to Cell and Molecular Biology (3) F,S
Prerequisites: Completion of BIOL 111, 111L, and CHEM 111A with grades of "C" or better. Corequisites: BIOL 212L.
The second of a three semester introductory sequence. Introduction to macromolecular and cellular structure and function and to fundamental genetic principles. Not open to students with credit in BIOL 211A. Letter grade only (A-F). (Lecture 3 hrs.)
305.## Pharmacology (2) F,S
Prerequisite/Corequisite: BIOL 304, with a grade of "C" or better.
Systematic study of drugs, their classification, methods and routes of administration, therapeutic and toxic effects with emphasis on nursing implications.
Not designed for majors in the College of Natural Sciences and Mathematics. (Lecture 2 hrs.)

308.## Issues in Women's Health (3)
Prerequisites: Upper division standing; ENGL 100, and WGS 101, BIOL 205, BIOL 207, or BIOL 213.
Fundamentals of anatomy and physiology relevant to the causes prevention/treatment of various health issues, including reproductive organ dysfunction, sexually transmitted disease, infertility, contraception, pregnancy, osteoporosis, cancer, and cardiovascular disease. Lifestyle habits (diet, exercise, stress, etc.) will be emphasized throughout. (Lecture 3 hrs.)

312. Evolutionary Biology (3) F,S
Prerequisites: BIOL 111, 111L, 211, 212L, 212L, 213, 213L, 260 all with a grade of "C" or better.
Survey of evolutionary biology including population genetics, speciation, origin of life, and phylogenetic analysis. Main emphasis is evolutionary mechanism and methods of analysis on specific of the evolutionary history of life. (Lecture 3 hrs.)

313. Invertebrate Zoology (4) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L all with a grade of "C" or better.
Systematics, morphology, and natural history of invertebrate animals with emphasis on local marine forms. (Laboratory 2 hrs., laboratory and field 6 hrs.; weekend field trips may be required.) Course fee may be required.

316. General Entomology (4) F,S
Prerequisites: BIOL 111, 111L, 211, 212L, 213, 213L all with grade of "C" or better.
Characteristics, structure, habits, and life cycles of insects and importance of insects to humans and other organisms. (Laboratory 2 hrs., laboratory 6 hrs.) Course fee may be required.

324. Vertebrate Zoology (4) F,S
Prerequisites: BIOL 111, 111L, 211, 212L, 213, 213L all with grade of "C" or better.
Phylogenetic survey of vertebrates (chordates). Lecture concentrates on origin and radiation of vertebrates and their functional morphology. Laboratory concentrates on skeletal and informal anatomy of the ornithological and mammalian levels of living vertebrates. (Lecture 2 hrs., laboratory 6 hrs.) Course fee may be required.

340. Molecular Cell Biology (3) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, CHEM 320A or 322A or 327 all with a grade of "C" or better.
Detailed study of the organization and functioning of cells and cellular organelles at the molecular level; emphasis on experimental approaches and structural/functional relationships. (Lecture 3 hrs.)

341. Physiology for Therapists I (4) F,S
Prerequisites: BIOL 111, 111L, 211, 212, 213L, CHEM 111B, PHYS 108A,B all with grade of "C" or better; 160 hours of documented exposure to the practice of physical therapy in a variety of settings; consent of instructor. (Lecture 3 hrs.)
smooth muscle. Pathological and clinical considerations presented. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

342. Mammalian Physiology (3) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L. All with grade of "C" or better. Recommended: PHY 101A/B.
Function of various mammalian body systems, primarily of humans. Emphasis on integration of homeostatic mechanisms of nervous, muscular, endocrine, cardiovascular, respiratory, renal, digestive, and reproductive systems.
Letter grade only (A-F). (Lecture 3 hrs.,)

342L. Laboratory in Physiology (1) F,S
Prerequisites: BIOL 342 with a grade of "C" or better. Experiments and exercises designed to provide experience in, and illustration of, physiological principles and mechanisms of interaction among various body systems.
Letter grade only (A-F). Course fee may be required. (Laboratory 3 hrs.)

345. Comparative Animal Physiology (3) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L. All with grade of "C" or better.
Comparison of fundamental physiological processes of major animal phyla.
Not open for credit to students with credit in AP 345. Letter grade only (A-F). (Lecture 3 hrs.,)

345L. Laboratory in Comparative Animal Physiology (1)
Prerequisites: BIOL 345 with a grade of "C" or better.
Laboratory course acquaints students with direct observation and measurement of physiological processes in various animal groups, both invertebrate and vertebrate.
Letter grade only (A-F). Course fee may be required. (Laboratory 3 hrs.)

350. General Ecology (3) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 260; MATH 115A or 122 all with a grade of "C" or better. Chemistry and physics recommended.
Relationships of plants and animals to their physical and biological environment; structure and function of populations, communities and ecosystems.
Letter grade only (A-F). (Lecture 3 hrs., and two required Saturday field trips.)

355. Marine Biology (3) S
Prerequisites: BIOL 111, 111L, 153, 212, 212L, 213, 213L, 260 all with grade of "C" or better.
Study of pelagic and benthic marine ecosystems, including food resources, man-induced pollutants, and processing. Weekend field trips may be required.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.) Course fee may be required.

355L. Microbial Ecology Laboratory (1) S
Prerequisites: MICR 211 or BIOL 111L, 111L, 212, 212L, 213, 213L, all with a grade of "C" or better.
Explores relationships of microorganisms to their environment. Emphasis placed on ecological basis for diversity of prokaryotic forms, metabolic functions and community interactions.
Not open for credit to students with credit in MICR 355. Letter grade only (A-F). (Same course as MICR 255.) (Lecture 3 hrs.)

355L. Microbial Ecology Laboratory (1) S
Prerequisites: BIOL 355 or MICR 355 with a grade of "C" or better.
Provides an understanding of microbes in the environment. Sample and analyze microbes from field trips to different habitats. Analytical techniques learned include enrichment culture methods and modern molecular biology methods to study the diversity and community dynamics of microbes.
Not open for credit to student with credit in MICR 355L. Letter grade only (A-F). Course fee may be required. Same course as MICR 355L. (Laboratory 3 hrs.)

370. General Genetics (4) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, and either BIOL 260 or CHEM 251 all with a grade of "C" or better.
Detailed study of classical transmission genetics and introduction to modern molecular genetics. Includes current observations and concepts of nature, organization, function, and regulation of genetic expression.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

411.511. Marine Mammalogy (3) S, odd years
Prerequisites: BIOL 153 or 353, BIOL 345, 350, all with grade of "C" or better, and consent of instructor. (Undergraduates enroll in BIOL 411; graduates enroll in BIOL 511.)
Fundamental biological, ecological, and physiological concepts of marine mammals, including cetaceans, pinnipeds, whales, sirenians, and polar bears. Information concerning taxonomy, distribution, morphology, physiology, reproduction, and feeding through readings and scientific literature.
Field trips may include weekends and spring recess. Letter grade only (A-F). (Lecture 2 hrs., laboratory and field trips 3 hrs.)

412.512. Advanced Evolutionary Biology (3)
Prerequisite: BIOL 512 with a grade of "C" or better.
(Undergraduates enroll in BIOL 412; graduates enroll in BIOL 512.)
An advanced survey of topics in evolutionary biology including but not limited to population and quantitative genetics, allozyme game theory, evolutionary psychology, and evolutionary-developmental biology. Main emphasis on the development of conceptual and mathematical models of evolutionary processes.
Letter grade only (A-F). (Lecture 3 hrs.)

415.515. Marine Microbiology (3) F, odd years
Prerequisites: BIOL 353 or MICR 355 or BIOL 355 with a grade of "C" or better. (Undergraduates enroll in BIOL 415; graduates enroll in BIOL 515.)
Designed to familiarize microbiology and marine biology students with the role of microorganisms in the marine environment. Topics will include ecology, physiology, biochemistry and diversity of marine microbes. Laboratory/field component will emphasize examination and cultivation of local marine microbes.
Not open for credit to students with credit in MICR 415. Letter grade only (A-F). Some course as MICR 415. Course fee may be required. (Lecture 2 hrs., laboratory and field 3 hrs., weekend field trips may be required.)

416.516. Virology (3) F,S
Prerequisite: MICR 320 or BIOL 340 with a grade of "C" or better.
(Undergraduates enroll in BIOL 416; graduates enroll in BIOL 516.)
Letter grade only (A-F). Same course as MICR 416. (Lecture 3 hrs.)

419. Ichthyology (3) F
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 260 and at least six additional units of upper division biological science, all with a grade of "C" or better. Recommended: BIOL 350, 355, and 370.
Systematics, morphology, genetics, and ecology of fishes. Emphasis on local marine forms.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs., weekend field trips may be required.) Course fee may be required.
420. Fisheries Ecology and Conservation (3) F
Prerequisites: BIOL 130, 120, and 419 all with a grade of "C" or better. (Undergraduates enroll in BIOL 420; graduates enroll in BIOL 530.)
Advanced aspects of fish and invertebrate biology and behavior; fisheries ecology and conservation; emphasis on state of art field laboratory techniques and contemporary concepts and their application in fishery management.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

421. Herpetology (3) S, odd years
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 200 and eight units of upper division biology, all with a grade of "C" or better.
Taxonomy, natural history, ecology and distribution of amphibians and reptiles, emphasis on local forms. Weekend field trip required.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

424. Ornithology (3) S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 200 and three units of upper division BIOL, all with a grade of "C" or better.
Recommended: BIOL 550. (Undergraduates enroll in BIOL 424; graduates enroll in BIOL 524.)
Ecology, morphology, physiology, behavior, and taxonomy of birds from an evolutionary perspective; also factors influencing recent increase in their extinction risk. Species identification techniques (emphasis on the local avifauna) and methods of surveying avian populations.
Letter grade only (A-F). (Lecture 2 hrs., laboratory/field 3 hrs.)
Course fee may be required.

425. Phycology (3) F,S
Prerequisite: One of the following BIOL 313, 350, 353 with a grade of "C" or better.
Taxonomy, phylogeny, and physiology of algae, including the physiological ecology of marine macroalgae; emphasis on local marine forms.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)
Course fee may be required.

427. Vascular Plant Systematics (4) S
Prerequisite: BIOL 312 or 370 with a grade of "C" or better.
Principles and methods of plant systematics, including phylogenetics, different aspects of systematic data, evolutionary history and diversification of vascular plants. Laboratory emphasizes retrieving and analyzing systematic data, using phylogenetic methods, and identifying vascular plants of Southern California.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.)

430. Immunology (3) F,S
Prerequisite: BIOL 540 with a grade of "C" or better.
Study of cellular and molecular components of immune system, including how immune system recognizes pathogens, how it functions in various types of immune responses, mechanisms of vaccines, immunodeficiencies, transplantation, allergy, and autoimmunity.
Not open for credit to students with credit in MICR 430. Letter grade only (A-F). Same course as MICR 430. (Lecture 3 hrs.)

431. Biology of Cancer (3) F,S
Prerequisites: BIOL 349, 370 with a grade of "C" or better. (Undergraduates enroll in BIOL 431; graduates enroll in BIOL 531.)
An examination of cancer: tumor progression, and treatment of the cellular, molecular, and genetic levels.
Letter grade only (A-F). (Lecture 3 hrs.)

433. Developmental Biology (3) F,S
Prerequisites: BIOL 340, 370, both with a grade of "C" or better. (Undergraduates enroll in BIOL 433; graduates enroll in BIOL 533.)
Experimental approaches to development in model organisms, mostly animal, at the molecular, genetic, cellular, and tissue levels. Topics include gastrulation, fertilization, early cleavage, gastrulation, pattern formation, and organogenesis.
Letter grade only (A-F). (Lecture/discussion 3 hrs.)

439. Plant Morphology (4) F
Prerequisite: BIOL 312 or 370 with a grade of "C" or better.
A phylogenetic survey of plant morphology, morphological diversity and analysis of the developmental and genetic mechanisms affecting this diversity. Emphasis in the laboratory is on documenting green plant morphological evolution, biometrical, and studying the developmental mechanisms driving morphological diversification.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)
Course fee may be required.

440L Molecular Cell Biology Laboratory (3) F
Prerequisites: BIOL 340, 370, both with a grade of "C" or better, and consent of instructor.
(Preference given to students in the Bachelor of Science in Biology, Option in Cell and Molecular Biology.) Intensive course of modern laboratory techniques used in both cell and molecular biology. Topics include genomics, subcellular structures, and transport and purification and functional characterization of recombinant proteins. Provides extensive laboratory experience for students.
Not open for credit to students with credit in BIOL 340L.
Letter grade only (A-F). (Laboratory 6 hrs.) Course fee may be required.

441. Physiology for Therapists II (3) F,S
Prerequisite: BIOL 341 with a grade of "C" or better.
Mechanisms of action and interaction of physiological body systems, with emphasis on cardiovascular, renal, and respiratory systems. Pathological and clinical considerations will be presented.
Letter grade only (A-F). (Lecture 3 hrs.)

443. Endocrinology (3) F,S
Prerequisites: BIOL 340 or CHEM 441B; CHEM 320A or 322A or 327, and one of BIOL 341, 343, 445, 445, 444, CHEM 441A or 444, all with a grade of "C" or better. (Undergraduates enroll in BIOL 443; graduates enroll in BIOL 543.)
Role of hormones in vertebrate and invertebrate adjustment to changes in internal and external environment.
Letter grade only (A-F). (Lecture 3 hrs.)

444. Reproductive Biology (3) S
Prerequisite: BIOL 342 or 345 with a grade of "C" or better. (Undergraduates enroll in BIOL 444; graduates enroll in BIOL 544.)
Topics in comparative reproductive biology from molecular, cellular, organismal, and population levels. Hormones and reproduction, gametogenesis biology, reproductive lifespan, mating systems' strategies, environmental influence on reproductive capabilities, contraception and in vitro fertilization. Scientific communication discussed including scientific articles and scientific writing.
Letter grade only (A-F). (Lecture 3 hrs.)

445. Metabolic Regulation (3) F
Prerequisite: CHEM 441B or BIOL 443 or 543 with a grade of "C" or better. (Undergraduates enroll in BIOL 445; graduates enroll in BIOL 545.)
Study of molecular mechanisms by which intermediary metabolism is regulated in various mammalian tissues with emphasis on mechanisms of hormone action and regulation of some key enzymes of carbohydrate, fat, and protein metabolism.
Letter grade only (A-F). (Lecture 3 hrs.)
447/454. Molecular Plant Physiology (3) S
Prerequisites: BIOL 340, 370, both with grade of "C" or better.
(undergraduates enroll in BIOL 447; graduates enroll in BIOL 547.)
Molecular approaches to classical topics including plant hormones,
photosynthesis, resistance to plant pathogens, adaptation of plants
to environmental stress, and development of plants.
Lecture, grade only (A-F). (Lecture 3 hrs.)

448/548. Principles of Neurobiology (3) F, S
Prerequisites: BIOL 340 or CHEM 441B and one of BIOL 341, 342,
or 345, all with grade of "C" or better.
(undergraduates enroll in BIOL 448; graduates enroll in BIOL 548.)
Study of the principles of anatomy, physiology, and function of the
nervous system. Topics covered include neuroanatomy, physiology
of nervous signaling (excitable membranes and action potentials),
synaptic transmission, neurotransmitters, and their receptors, pain
processing, special senses, reflexes, and neural circuits.
Lecture grade only (A-F). (Lecture 3 hrs.)

449/549. Fish Physiology and Endocrinology (3) S
Prerequisite: BIOL 346 with grade of "C" or better.
(undergraduates enroll in BIOL 449; graduates enroll in BIOL 549.)
Fundamentals of physiological systems and strategies in fishes,
with emphasis on osmoregulatory mechanisms. Adaptations in
endocrine physiology of fishes considered from evolutionary and
ecological perspectives. Impacts of human activities, particularly in
context of Southern California's marine environment addressed.
Lecture grade only (A-F). (Lecture 3 hrs.)

450/550. Plant Ecology (3), even years
Prerequisites: BIOL 280, 350 with a grade of "C" or better.
Recommended: BIOL 427, 447.
(undergraduates enroll in BIOL 450; graduates enroll in BIOL 550.)
Relationship of plants to their environment and principles of plant
distribution.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)
Course fee may be required.

451/551. Wetlands and Mangrove Ecology (3), odd years
Prerequisites: BIOL 290, 350 both with a grade of "C" or better.
(undergraduates enroll in BIOL 451; graduates enroll in BIOL 551.)
Wetlands and mangrove ecology in shifting wetland ecosystem
types. Physical and biogeochemical conditions, biological
characteristics, specific species, and their interactions. Specific
coastal and inland wetland ecosystems described. Wetland
management goals and concepts and approaches and practices in
U.S. and world. Two lectures will extend beyond standard lecture
time.
Lecture grade only (A-F). (Lecture 3 hrs.)

452/552. Behavioral Ecology (3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 260 all with
a grade of "C" or better. Pr- or corequisite: BIOL 312 or 350.
(undergraduates enroll in BIOL 452; graduates enroll in BIOL 552.)
Primary objectives are to understand how animal behavior affects
survival and reproduction and introduce students to current
methodologies to study behavior of animals in lab and field
conditions. Emphasizes ecological and evolutionary consequences
of behavior across taxa.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory/field 3 hrs.)

453/553. Insect Ecology (3), F, even years
Prerequisite: BIOL 350 with a grade of "C" or better.
(undergraduates enroll in BIOL 453; graduates enroll in BIOL 553.)
Field and experimental studies of abundance, dispersal,
distribution, and behavior of insects.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

454A/554A. Research in Tropical Marine Ecology (3), even years
Prerequisites: BIOL 250, either BIOL 50 or 353, and BIOL 313 or
419 or 425 all with a grade of "C" or better, and consent of
instructor. (undergraduates register in BIOL 454A; graduates
register in BIOL 554A.)
Field and laboratory studies, lectures, and individual research on
tropical marine biological problems. Designed to engage students
in experimental research, including recognizing a problem,
designing and carrying out a project, statistical data analysis, and
oral and written report presentations.
Eight-day field trip to Hawaii required during spring recess at
student expense. Enrollment is limited. Lecture grade only (A-F).
(Lecture 2 hrs., 8 day field trip.)

454B/554B. Research in Tropical Terrestrial Ecology (3)
S, odd years
Prerequisites: BIOL 350, one of BIOL 316, 324, 421, 424, 427,
or 459 all with a grade of "C" or better, and consent of instructor.
(undergraduates enroll in BIOL 454B; graduates enroll in BIOL 554B.)
Field-based comparison of tropical lowland deciduous forest and
tropical rainforest incorporating basic ecology methodology.
Forest structure and diversity of animals emphasized. Students maintain
field notebook, submit final paper, and give oral presentation.
Nine-day field trip to Costa Rica required during spring recess at
student expense. Enrollment is limited. Lecture grade only (A-F).
Course fee may be required. (Lecture 2 hrs., 9 day field trip.)

455/555. Ecology of Marine Communities (3), F, even years
Prerequisites: BIOL 289, 350, 353 all with a grade of "C" or better.
(undergraduates enroll in BIOL 455; graduates enroll in BIOL 555.)
Field studies on ecological principles related to marine
communities discussed. Includes individual field research project
and two data projects.
Lecture grade only (A-F). (Lecture 2 hrs., field 3 hrs.)

456/556. Population Ecology (3), even years
Prerequisites: BIOL 350, MATH 116 or 123 all with a grade of "C"
or better. (undergraduates enroll in BIOL 456; graduates in BIOL 556.)
Analysis of animal and plant populations characteristics: population
growth and regulation, fluctuation and regulation, competition,
predation, parasitism, and other intraspecific and interspecific
interactions, spatial patterns.
Lecture grade only (A-F). (Lecture 3 hrs.)

457/557. Field Methods in Ecology (3)
Prerequisites: BIOL 250, 350 both all with a grade of "C" or better.
(undergraduates enroll in BIOL 457; graduates in BIOL 557.)
Design of field research projects, collection, and data analysis,
report writings and presentations. Field sampling techniques
emphasized. Five weekend fieldtrips required.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

459/559. Conservation Biology (2) F
Prerequisites: BIOL 350, 359 both all with a grade of "C" or better.
Recommended: BIOL 370. (undergraduates enroll in BIOL 459;
graduates enroll in BIOL 559.)
Conservation biology concepts including population
ecology, extinction processes, population viability analysis,
metapopulations, community-level interactions, island
biogeography, biological diversity patterns, habitat fragmentation,
reserve design, and landscape-level conservation. Lectures
include group discussions of relevant primary literature.
Lecture grade only (A-F). (Lecture 3 hrs., two weekend field trips
may be required.)
463/563. Computer Modeling in Biology (4)
Prerequisites: BIOL 260, 350 both with a grade of "C" or better.
(undergraduate/graduate enrollment in BIOL 563.)
History, modeling theory, different modeling approaches, algorithmic, empirical and quantitative modeling. Laboratory uses modeling software and focuses on model construction and quantitative simulation. Applicable to ecology, microbiology, physiology, environmental sciences, etc.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

464/564. Aquatic Toxicology (3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 340, CHEM 320A or 322A or 327, all with a grade of "C" or better. Recommended: BIOL 353 and CHEM 418 or 414A, B (undergraduate enrollment in BIOL 464; graduate enrollment in BIOL 564.)
In-depth study of interactions between anthropogenic chemicals and aquatic ecosystems, including origin, fate, chemical and biological processes, levels and patterns of pollutants and impact at molecular, biochemical, cellular, physiological, organismal, and community levels of organization. Individual research project required.
Letter grade only (A-F). (Lecture 3 hrs.)

465/565. Experimental Design and Regression Analysis (4) F, even years
Prerequisites: BIOL 260, MATH 118B or 123; six units of upper division biological science all with a grade of "C" or better.
(undergraduate/graduate enrollment in BIOL 465; graduate enrollment in BIOL 565.)
Experimental design and data analysis techniques applied to problems in biology including analysis of variance and covariance, linear and non-linear regression, experimental design, bootstrapping and randomization tests, analysis of covariance, and nonparametric statistics. Experience in analyzing biological data using computerized statistical packages.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

466H. Research Design and Methods -- Honors (3) S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, either BIOL 260 or CHEM 254, CHEM 320A, B or CHEM 322A, B and 323A, B, all with a grade of "C" or better, completion of the GE Foundation, and consent of instructor.
Introduction to hypothesis testing, experimental design, and regression modeling of biological data; methodological and technical procedures for experiments for written and oral presentation of research results. Research paper and oral presentation required.
Not open for credit to students with credit in CHEM 466H. Letter grade only (A-F). Same course as CHEM 466H. (Lecture 3 hours.)

467/567. Multivariate Data Analysis (4) F, odd years
Prerequisites: BIOL 260, MATH 118B or 123; six units of upper division biological science all with a grade of "C" or better.
(undergraduate/graduate enrollment in BIOL 467; graduate enrollment in BIOL 567.)
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

472/572. Molecular Evolution (3)
Prerequisite: BIOL 370 with a grade of "C" or better. Recommended: BIOL 312. (undergraduate enrollment in BIOL 472; graduate enrollment in BIOL 572.)
Survey of molecular evolution including but not limited to the history of the field, protein and DNA evolution, neutral and nearly-neutral theory, molecular phylogenetics, molecular population genetics and DNA fingerprinting, genomics, and proteomics. Applicable to ecological, evolutionary, medical, forensic sciences.
Letter grade only (A-F). (Lecture 3 hrs.)

473/573. Molecular Genetics (3) S
Prerequisites: BIOL 370 or MICR 317; CHEM 320A, B or 322A, B and 323A, B or 327, all with a grade of "C" or better. (undergraduate enrollment in BIOL 473; graduate enrollment in BIOL 573.)
Contemporary molecular genetic analysis of model organisms (mouse, worm, flies, yeasts) used in study of human disease, basic biological processes, gene regulation, and global analysis of genomes and proteomes.
Letter grade only (A-F). (Lecture 3 hrs.)

477/577. Biotechnology: Applications of Molecular Techniques and Bioinformatics (4) F
Prerequisite: BIOL 340 or 370 or CHEM 411A, B; all with a grade of "C" or better. (undergraduate enrollment in BIOL 477; graduate enrollment in BIOL 577.)
Theory and techniques for isolating, amplifying, and analyzing genes, genomes, transcripts, and proteins. Data mining, the use of computers in experimental design and/or functional analysis, use of microarrays, and future of nanotechnology.
Letter grade only (A-F). Same course as MICR 477/577. Not open for credit to students with credit in MICR 477/577. (Lecture 3 hrs., activity 2 hrs.)

480/580. Seminars (1) F, S
Prerequisites: Consent of department. Undergraduates must have filed for graduation and be in their senior or penultimate semester.
Graduates must have been admitted to the department as a graduate student. (undergraduate enrollment in BIOL 480; graduate enrollment in BIOL 580.)
Weekly meetings with professional biologists presenting results of their research. Requires participation in critical evaluation of these presentations.
May not be repeated for credit towards any single degree. Letter grade only (A-F). (Seminar 1 hr.)

490/590. Special Topics in Biology (1-3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, all with a grade of "C" or better, and consent of instructor. (undergraduate enrollment in BIOL 490; graduate enrollment in BIOL 590.)
Topics from selected areas of biology. Course content varies from section to section.
May be repeated to a maximum of 6 units with different topics. Topics announced in the Schedule of Classes. Letter grade only (A-F). (Lecture 1-3 hrs.)

490L/590L. Special Topics Laboratory in Biology (1-2)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, all with a grade of "C" or better, and consent of instructor. (undergraduate enrollment in BIOL 490L; graduate enrollment in BIOL 590L.)
Topics from selected areas of biology. Course content varies from section to section.
May be repeated to a maximum of 4 units with different topics. Topics announced in the Schedule of Classes. Letter grade only (A-F). (Lecture 1-3 hrs.)

495. Instruction in Laboratory Teaching (1-2) F, S
Prerequisites: Consent of lecture instructor, a "B" or better in the course in which the student elects to do BIOL 495 (another course or project may be substituted with consent of instructor), and an overall GPA of at least 2.75.
Individual instruction in organization and techniques of teaching a biology laboratory.
Not open for credit to students with credit in MICR 495. May be repeated for a letter grade and degree credit to a maximum of 2 units for any single degree or option. Units beyond the two taken for a letter grade in BIOL 495 or MICR 495 or any combination of the two will be taken credit/no credit. Same course as MICR 495. (Conference 1 hr., laboratory 3 hrs. per unit.)
496. Undergraduate Directed Research (1-3) F,S
Prerequisites: Consent of instructor and consent of appropriate undergraduate advisor.
Research in a specific topic in biological sciences approved and directed by a faculty member in the Department of Biological Sciences.
Not open to students with credit in MCR 496. May be repeated for a letter grade and degree credit to a maximum of three units for any single degree or option. Units beyond the three taken for a letter grade in BIOL 496 or MCR 496, or any combination of the two, will be taken credit/no credit. Same course as MCR 496. Not available to graduate students. (Conference 1 hr., laboratory 3 hrs. per unit.)

498H. Senior Thesis – Honors (3) F,S
Prerequisites: At least one unit of BIOL 496 with a grade of "C" or better and consent of instructor.
Planning, preparation, completion, and oral presentation of a written thesis based on a research project in biological sciences begun in BIOL/MCR 496. Not available to graduate students.
Letter grade only (A-F).

GRADUATE LEVEL

511.411. Marine Mammalogy (3) S, odd years
Prerequisites: BIOL 153 or 353, BIOL 345, 550, all with grade of "C" or better, and consent of instructor. (Undergraduates enroll in BIOL 411; graduates enroll in BIOL 511.)
Fundamental biological, ecological, and physiological concepts of marine mammals, including cetaceans, pinnipeds, walruses, sea lions, and polar bears. Information concerning taxonomy, distribution, morphology, physiology, reproduction, and feeding through readings and scientific literature. Fieldtrips may include weekends and spring break.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and fieldtrips 3 hrs.)

512.412. Advanced Evolutionary Biology (3) F
Prerequisite: BIOL 312 with a grade of "C" or better. (Undergraduates enroll in BIOL 412; graduates enroll in BIOL 512.)
An advanced survey of topics in evolutionary biology including but not limited to population and quantitative genetics, allelotyping, game theory, evolutionary psychology, and evolutionary developmental biology. Main emphasis on the development of conceptual and mathematical models of evolutionary processes.
Letter grade only (A-F). (Lectures 3 hrs.)

515.415. Marine Microbiology (3) F, odd years
Prerequisite: BIOL 353 or MCR 355 or BIOL 355 with a grade of "C" or better. (Undergraduates enroll in BIOL 415; graduates enroll in BIOL 515.)
Designed to familiarize marine biology and marine biology students with the role of microorganisms in the marine environment. Topics will include ecology, physiology, biochemistry and diversity of marine microbes. Laboratory/field component will emphasize examination and cultivation of local marine microbes.
Not open to students with credit in MCR 515. Letter grade only (A-F). Course fee may be required. Same course as MCR 515. (Lecture 2 hrs., laboratory and field 3 hrs., weekend field trip may be required.)

516.416. Virology (3) F,S
Prerequisite: MCR 320 or BIOL 340 with a grade of "C" or better. (Undergraduates enroll in BIOL 416; graduates enroll in BIOL 516.)
Letter grade only (A-F). (Lecture 3 hrs.)

520./420. Fisheries Ecology and Conservation (3) F
Prerequisites: BIOL 250, 350, and 419 all with a grade of "C" or better. (Undergraduates enroll in BIOL 420; graduates enroll in BIOL 520.)
Advanced aspects of fish and invertebrate biology and behavior; fisheries economics and conservation; emphasis on state-of-art field/laboratory techniques and contemporary concepts and their application in fishery management.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

524.424. Ornithology (3) S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 260 and three units of upper division BIOL, all with a grade of "C" or better. Recommended: BIOL 252. (Undergraduates enroll in BIOL 424; graduates enroll in BIOL 524.)
Ecology, morphology, physiology, behavior, and taxonomy of birds from an evolutionary perspective, also factors influencing recent increase in their extinction risk. Species identification techniques (emphasis on the local avifauna) and methods of surveying avian populations.
Letter grade only (A-F). (Lecture 2 hrs., laboratory/field 3 hrs.) Course fee may be required.

531./431. Biology of Cancer (3) S,F
Prerequisites: BIOL 340, 370 with a grade of "C" or better. (Undergraduates enroll in BIOL 431; graduates enroll in BIOL 531.)
An examination of cancer: tumor progression, and treatment of the cellular, molecular, and genetic levels.
Letter grade only (A-F). (Lecture 3 hrs.)

533.433. Developmental Biology (3) S
Prerequisites: BIOL 340, 370, both with a grade of "C" or better. (Undergraduates enroll in BIOL 433; graduates enroll in BIOL 533.)
Experimental approaches to development in model organisms, mostly animal, at the molecular, genetic, cellular, and tissue levels. Topics include gametogenesis, fertilization, early cleavage, gastrulation, pattern formation, and organogenesis.
Letter grade only (A-F). (Lecture/discussion 3 hrs.)

540. Advanced Molecular Cell Biology and Physiology (3) F
Prerequisites: Graduate standing and consent of instructor.
In depth discussion of cellular processes and their regulation and how they relate to organismal physiology. Includes critical reading and discussion of primary journal articles on pertinent topics.
Letter grade only (A-F). (Lecture 3 hrs.)

543.443. Endocrinology (3) S,F
Prerequisites: BIOL 340 or CHEM 4418; CHEM 322A or 322A or 327; and one of BIOL 341, 342, 343, 445, 446; CHEM 441A or 44B. all with a grade of "C" or better. (Undergraduates enroll in BIOL 443; graduates enroll in BIOL 543.)
Role of hormones in vertebrate and invertebrate adjustment to changes in internal and external environment.
Letter grade only (A-F). (Lecture 3 hrs.)

544.444. Reproductive Biology (3) S
Prerequisite: BIOL 342 or 345 with a grade of "C" or better.
Topics in comparative reproductive biology from molecular, cellular, organismal, and population levels. Hormones and reproduction, gametogenesis biology, reproductive lifespan, mating system strategies, environmental influence on reproductive capabilities, contraception/in vitro fertilization. Scientific communication discussed including scientific articles and scientific writing.
Letter grade only (A-F). (Lecture 3 hrs.)
Biology Courses (BIOL)

545.445. Metabolic Regulation
Prerequisite: CHEM 441B or BIOL 443 or 543 with a grade of “C” or better. (Undergraduates enroll in BIOL 445; graduates enroll in BIOL 545.)
Study of molecular mechanisms by which intermediary metabolism is regulated in various mammalian tissues with emphasis on mechanisms of hormone action and regulation of some key enzymes of carbohydrate, fat, and protein metabolism.
Letter grade only (A-F). (Lecture 3 hrs.)

547.447. Molecular Plant Physiology (3) S
Prerequisites: BIOL 340, 370, both with grade of “C” or better. (Undergraduates enroll in BIOL 447; graduates enroll in BIOL 547.)
Molecular approaches to classical topics including plant hormones, photosynthesis, resistance to plant pathogens, adaptation of plants to environmental stresses, and development of plants.
Letter grade only (A-F). (Lecture 3 hrs.)

548.448. Principles of Neurobiology (3) F-S
Prerequisites: BIOL 340 or CHEM 441B; and one of BIOL 341, 342, or 343 all with a grade of “C” or better. (Undergraduates enroll in BIOL 448; graduates enroll in BIOL 548.)
Study of the principles of anatomy, physiology, and function of the nervous system. Topics covered include neuroanatomy, physiology of neuronal signaling (excitable membranes and action potentials), synaptic transmission, neurotransmitters and their receptors, pain processing, spinal sensory, reflexes, and neural circuits.
Letter grade only (A-F). (Lecture 3 hrs.)

549.449. Fish Physiology and Endocrinology (3)
Prerequisite: BIOL 345 with grade of “C” or better. (Undergraduates enroll in BIOL 449; graduates enroll in BIOL 549.)
Fundamentals of physiological systems and strategies in fishes, with emphasis on endocrine regulatory mechanisms. Adaptations in endocrine physiology of fishes considered from evolutionary and ecological perspectives. Impacts of human activities, particularly in context of Southern California’s marine environment addressed.
Letter grade only (A-F). (Lecture 3 hrs.)

550.450. Plant Ecology (3) S, even years
Prerequisites: BIOL 260, 290 both with a grade of “C” or better. (Undergraduates enroll in BIOL 450; graduates enroll in BIOL 550.)
Relationship of plants to their environment and principles of plant distribution.
Letter grade only (A-F) (Lecture 2 hrs., laboratory and field 3 hrs.)
Course fee may be required.

551.451. Wetlands and Mangrove Ecology (3) S, odd years
Prerequisites: BIOL 260, 290 both with a grade of “C” or better. (Undergraduates enroll in BIOL 451; graduates enroll in BIOL 551.)
Wetlands and mangrove ecology in shaping wetland ecosystem types. Physical and biogeochemical conditions, biological characteristics, specific players, and their interactions. Specific coastal and inland wetland ecosystems described. Wetland management goals and concepts and approaches and practices in U.S. and world. Two fieldtrips will extend beyond standard lecture time.
Letter grade only (A-F). (Lecture 3 hrs.)

552.452. Behavioral Ecology (3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 260 all with a grade of “C” or better. (Undergraduates enroll in BIOL 452; graduates enroll in BIOL 552.)
Primary objectives are to understand how animal behavior affects survival and reproduction and introduce students to current methodologies to study behavior of animals in lab and field conditions. Emphasizes ecological and evolutionary consequences of behavior across taxa.
Letter grade only (A-F). (Lecture 2 hrs., laboratory/field 3 hrs.)

553.453. Insect Ecology (3) F, even years
Prerequisites: BIOL 350 with a grade of “C” or better. (Undergraduates enroll in BIOL 453; graduates enroll in BIOL 553.)
Field and experimental studies of abundance, dispersal, distribution, and behavior of insects.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

554A.454A. Research in Tropical Marine Ecology (3) S, even years
Prerequisites: BIOL 260, either BIOL 350 or 353, and BIOL 313 or 419 or 425, all with a grade of “C” or better, and consent of instructor. (Undergraduates as registrar in BIOL 454A; graduates register in BIOL 554A.)
Field and laboratory studies, lectures, and individual research on tropical marine biological problems. Designed to engage students in experimental research, including recognizing a problem, designing and carrying out a project, statistical data analysis, and oral and written report presentation.
Eight-day field trip to Hawaii required during spring recess at student expense. Enrollment is limited. Letter grade only (A-F). (Lecture 2 hrs., 8 day field trip.)

554B.454B. Research in Tropical Terrestrial Ecology (3) S, odd years
Prerequisites: BIOL 350; one of BIOL 316, 324, 421, 424, 427, or 439, all with a grade of “C” or better, and consent of instructor. (Undergraduates enroll in BIOL 454B; graduates enroll in BIOL 554B.)
Field based comparison of tropical lowland deciduous forest and lowland rainforests incorporating basic ecology methodology. Forest structure and diversity of animals emphasized. Students maintain field notebook, submit final paper, and give oral presentation.
Nine-day fieldtrip to Costa Rica required during spring recess at student expense. Enrollment is limited. Letter grade only (A-F). Course fee may be required. (Lecture 2 hr., 9 day field trip.)

555.455. Ecology of Marine Communities (3) F, even years
Prerequisites: BIOL 350, 355 all with a grade of “C” or better. (Undergraduates enroll in BIOL 455; graduates enroll in BIOL 555.)
Field studies on ecological principles related to marine communities discussed. Includes individual field research project and two class projects.
Letter grade only (A-F). (Lecture 2 hrs., field 3 hrs.)

556.456. Population Ecology (3)
Prerequisites: BIOL 350; MATH 119B or 122; all with a grade of “C” or better. (Undergraduates enroll in BIOL 456; graduates in BIOL 556.)
Analysis of animal and plant populations characteristics: population growth and regulation, fluctuation and regulation, competition, predation, parasitism, and other interspecific and intraspecific interactions; spatial patterns.
Letter grade only (A-F). (Lecture 3 hrs.)

557.457. Field Methods in Ecology (3)
Prerequisites: BIOL 260, 350 both with a grade of “C” or better. (Undergraduates enroll in BIOL 457; graduates in BIOL 557.)
Design of field research projects, collection, and data analysis, report writing and presentations. Field sampling techniques emphasized. Five weekends fieldtrips required.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 3 hrs.)

559.459. Conservation Biology (3) F
Prerequisites: BIOL 250, 350 both with a grade of “C” or better. Recommended: BIOL 370. (Undergraduates enroll in BIOL 459; graduates enroll in BIOL 559.)
Conservation biology concepts including population dynamics, extinction processes, population viability analyses, metapopulations, community-level interactions, island biogeography, biological diversity patterns, habitat fragmentation, reserve design, and landscape-level conservation. Lecture includes group discussions of relevant primary literature.
Letter grade only (A-F). (Lecture 3 hrs., two weekend field trips may be required.)

563/463. Computer Modelling in Biology (4)
Prerequisites: BIOL 280, 350 both with a grade of "C" or better.
(Undergraduates enroll in BIOL 463; graduates enroll in BIOL 563.)
Historical modeling theory, current research advances, theoretical, empirical and quantitative modeling. Laboratory uses modeling software and focuses on model construction and quantitative simulation. Applicable to ecology, microbiology, physiology, environmental sciences, etc.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

564/464. Aquatic Toxicology (3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, 340; CHEM 320.A or 327, all with a grade of "C" or better. Recommended: BIOL 353 and CHEM 448 or 441.A.
(Undergraduates enroll in BIOL 464; graduates enroll in BIOL 564.)
In depth study of interactions between anthropogenic chemicals and aquatic ecosystems, including origin, fate, chemical and biological detection, and quantification of pollutants and impact at molecular, biochemical, cellular, physiological, organismal, and community levels of organization. Individual research project required.
Letter grade only (A-F). (Lecture 3 hrs.)

565/465. Experimental Design and Regression Analysis (4) F, even years
Prerequisites: BIOL 250, MATH 1180 or 123; six units of upper division biological science all with a grade of "C" or better.
(Undergraduates enroll in BIOL 465; graduates enroll in BIOL 565.)
Experimental design and data analysis techniques applied to problems in biology including analysis of variance and covariance, bi-variate and multiple regression, experimental design, bootstrapping and randomization tests, and nonparametric statistics. Experience in analyzing biological data using computerized statistical packages.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

567/467. Multivariate Data Analysis (4) F, odd years
Prerequisites: BIOL 250, MATH 1180 or 123; six units of upper division biological science all with a grade of "C" or better.
(Undergraduates enroll in BIOL 467; graduates enroll in BIOL 567.)
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

570. Advanced Genetics (3) S
Prerequisites: Graduate standing and consent of instructor.
In depth discussion of various advanced topics in genetics, which may include population genetics, molecular physiology, and microbiological genetics. Includes critical reading and discussion of primary journal articles on pertinent topics.
Letter grade only (A-F). (Lecture 3 hrs.)

572/472. Molecular Evolution (3)
Prerequisite: BIOL 570 with a grade of "C" or better. Recommended: BIOL 512. (Undergraduates enroll in BIOL 472; graduates enroll in BIOL 572.)
Survey of molecular evolution including but not limited to the history of the field, protein and DNA evolution, neutral and nearly-neutral theory, molecular phylogenetics, molecular population genetics and DNA fingerprinting, genomics, and proteomics. Applicable to ecological, evolutionary, medical, forensic sciences.
Letter grade only (A-F). (Lecture 3 hrs.)

573/473. Molecular Genetics (3) S
Prerequisites: BIOL 370 or MIRC 371; BIOL 320.A, 320.B or 327, all with a grade of "C" or better.
(Undergraduates enroll in BIOL 473; graduates enroll in BIOL 573.)
Contemporary molecular genetic analysis of model organisms (mouse, worm, flies, yeasts) used in study of human disease, basic biological processes, gene regulation, and global analysis of genomes and proteomes.
Letter grade only (A-F). (Lecture 3 hrs.)

577/477. Biotechnology: Applications of Molecular Techniques and Bioinformatics (4) F
Prerequisite: BIOL 340 or 370 or CHEM 441.A,B; all with a grade of "C" or better.
(Undergraduates enroll in BIOL 477; graduates enroll in BIOL 577.)
Theory and techniques for isolating, amplifying, and analyzing genes, genomes, transcripts, and proteins. Data mining, the use of computers in experimental design and functional analysis, use of microarrays, and future of nanotechnology.
Letter grade only (A-F). Same course as MIRC 577/477. Not open for credit to students with credit in MIRC 577/477. (Lecture 3 hrs., activity 2 hrs.)

580/480. Seminars (1) F,S
Prerequisites: Consent of department. Undergraduates must have filed for graduation and be in ultimate semester. Graduates must have been admitted to the department as a graduate student. (Undergraduates enroll in BIOL 480; graduates enroll in BIOL 580.)
Weekly meetings with professional biologists presenting results of their research. Requires participation in organization and critical evaluation of these presentations.
May not be repeated for credit towards any single degree. Letter grade only (A-F) (Seminars 1 hr.)

590/490. Special Topics in Biology (1-3)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, all with a grade of "C" or better, and consent of instructor. (Undergraduates enroll in BIOL 490; graduates enroll in BIOL 590.)
Topics from selected areas of biology. Course content varies from section to section. Topics announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F). (Lecture 1-3 hrs.)

590L/490L. Special Topics Laboratory in Biology (1-2)
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, all with a grade of "C" or better, and consent of instructor. (Undergraduates enroll in BIOL 490L; graduates enroll in BIOL 590L.)
Topics from selected areas of biology. Course content varies from section to section. May be repeated to a maximum of 4 units with different topics. Topics announced in the Schedule of Classes. Letter grade only (A-F). (Laboratory 3 or 6 hrs.)

661. Seminar in Biology (2)
Critical evaluation of field’s primary literature, including oral and/or written presentation of critiques.
May be repeated to a maximum of 4 units with different topics.
Letter grade only (A-F). (Seminar 2 hrs.)

663. Seminar in Cell and Molecular Biology (2)
Critical evaluation of field’s primary literature, including oral and/or written presentation of critiques.
May be repeated to a maximum of 4 units with different topics.
Letter grade only (A-F) (Seminar 2 hrs.)
LOWER DIVISION

101. Introduction to Human Disease (3) F,S
Prerequisite: Corequisite. Course that fulfills the A.1 GE requirement. Introduction to the study of human disease including morbid etiologic and economic issues. (Lecture 3 hrs.)

200. General Microbiology for Health Professionals (4) F,S
Prerequisites: CHEM 111A or 140 with a grade of "C" or better and completion of GE Foundation requirements. Microbiology for those planning careers in nursing, health care and education, and foods and nutrition. Introduction to microorganisms, including structure, function, metabolism, growth, genetics, diversity, and applied aspects. Special emphasis on human health. Not open for credit to majors in the biological sciences. (Lecture 2 hrs., laboratory 6 hrs.) Course fee may be required.

211. General Microbiology (5) F,S
Prerequisites: BIOL 111, 111L, 212, 212L; CHEM 111B, all with a grade of "C" or better. Introduction to biology of microorganisms, including structure, function, metabolism, growth, genetics, diversity, host-parasite relationships, and applied aspects. Letter grade only (A-F). (Lecture 3 hrs., laboratory 6 hrs.) Course fee may be required.

UPPER DIVISION

300L. Human Immunology: In Self-Defense (3) F
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing; one laboratory course in a life science. Introductory psychology and laboratory course in a physical science recommended. Mechanisms and cells responsible for protecting human body from disease. Normal functions of immune system, diseases involving immune system, and psychological, endocrine and age factors affecting immune system included. Impact of immunology or organ transplantation, immunotherapy, and biotechnology discussed. Not applicable for credit toward the major in Microbiology. (Lecture 3 hrs.)

320. Bacterial Pathogenesis (3) F,S
Prerequisite: MICRO 211 with a grade of "C" or better. Nature of host-pathogen interactions in health and disease. Emphasis upon pathogenic bacteria of humans and animals; topics include bacterial ultrastructure, epidemiology, and mechanisms of pathogenesis, host defense mechanisms, and antibacterial therapy. Letter grade only (A-F). (Lecture 3 hrs.) Course fee may be required.

320L. Bacterial Pathogenesis Laboratory (2) F,S
Prerequisites or corequisites: MICRO 320 with a grade of "C" or better. Experiments using modern and classical techniques for the isolation, identification, and characterization of pathogenic bacteria. Molecular mechanisms of bacterial virulence are emphasized. Techniques used include PCR, SDS-PAGE, serotyping, and immunofluorescence microscopy. Letter grade only (A-F). (Laboratory 6 hrs.)

322. Mycology/Parasitology (5) F,S
Prerequisites: BIOL 111, 111L, 212, 212L, MICRO 320, all with a grade of "C" or better. Second of a two-semester sequence (MICRO 320/322) in medical microbiology for majors. Survey of protozoa, helminthes, and fungi of humans; emphasis on identification of fresh and preserved specimens, pathogenesis, host-parasite interactions, epidemiology, prevention, and control. Letter grade only (A-F). (Lecture 3 hrs., laboratory 6 hrs.) Course fee may be required.

Microbiology Courses (MICR)

Students pursuing a major and/or a minor in this department may receive unit credit for courses marked with the symbol “**” as a general elective but may not apply the units toward the specific or elective requirements for any degree or option in this department. Majors in this Department may, however, take, for general education purposes, interdisciplinary courses offered by this department. All other courses in this department are open to majors and minors but by letter grade only.
325. Emerging Infectious Diseases (3)
Prerequisites: MICR 211 with a grade of "C" or better and consent of instructor.
Explores changes in technology, infectious disease organisms and other factors contributing to emerging and re-emerging infectious diseases, including immunodeficiency, antibiotic and insecticide abuses, climate change, travel and commerce, human demographic and behavioral changes, land use, and breakdown of public health.
Letter grade only (A-F). (Lecture 3 hrs.)

355. Microbial Ecology (3) S
Prerequisites: MICR 211 or BIOL 111L, 211L, 212L, 214L, 215L, 216L, all with a grade of "C" or better.
Explores relationships of microorganisms to their environment. Emphasis placed on ecological basis for diversity of prokaryotic forms, metabolic functions and community interactions.
Not open for credit to students with credit in BIOL 355. Letter grade only (A-F). Same course as BIOL 355. (Lecture 3 hrs.)

355L. Microbial Ecology Laboratory (1) S
Prerequisite: MICR 355 or BIOL 355 with a grade of "C" or better.
Provides an understanding of microbes in the environment. Sample and analyze microbes from field trips to different habitats. Analytical techniques learned include enrichment culture methods and modern molecular biology methods to study the diversity and community dynamics of microbes.
Not open for credit to students with credit in BIOL 355L. Letter grade only (A-F). Some course as BIOL 355L. (Laboratory 3 hrs.)

371. Microbiol Genetics (3) F
Prerequisite: MICR 211 with a grade of "C" or better.
Genetic analysis of biological processes in microbes. Includes gene structure, regulation, and function; isolation/analysis of mutations in haploid/diploid organisms; gene function from mutants; genetic exchange; regulation of host-pathogen interactions; bacteriophages; cloned genes; and genomics.
Letter grade only (A-F). (Lecture 3 hrs.)

372. Methods in Microbial Genetics (2) F
Prerequisite: MICR 211 with a grade of "C" or better.
Recommended: MICR 371.
Laboratory study of microbial genetics, using classical (non-molecular) and contemporary (molecular) approaches. Includes genetic engineering techniques; microbial genomics.
Not open for credit to students with credit in MICR 451. Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required.

415. Marine Microbiology (3) F, odd years
Prerequisite: MICR 355 or BIOL 355 or BIOL 353 with a grade of "C" or better. (Undergraduates enroll in MICR 415; graduates enroll in MICR 515B.)
Designed to familiarize microbiology and marine biology students with the role of microorganisms in the marine environment. Topics will include ecology, physiology, biogeochemistry, and diversity of marine microbes. Laboratory/field component will emphasize examination and cultivation of local marine microbes.
Not open for credit to students with credit in BIOL 415. Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required. (Lecture 2 hrs., laboratory and field 3 hrs.) Weekend field trip may be required.

416. Virology (3) F,S
Prerequisite: MICR 320 or BIOL 340 with a grade of "C" or better. (Undergraduates enroll in MICR 416; graduates enroll in MICR 516.)
Virology at molecular level including viral replication and molecular basis for viral pathogenesis; survey of human, animal, and plant viral diseases. Current trends for prevention and treatment of viral diseases.
Letter grade only (A-F). Same course as BIOL 516. Not open for credit to students with credit in BIOL 516. (Lecture 3 hrs.)

423/.523. Hematology (4) F
Prerequisite: BIOL 340 with a grade of "C" or better. (Undergraduates enroll in MICR 423; graduates enroll in MICR 523.)
Study of blood and coagulation system. Normal cell structure and function and physiological and morphological changes in inflammation, leukemias, and anemias discussed. Clinical, diagnostic, and research techniques for observing blood and pathologic case-studies included.
Useful for student interested in medical professions. Required for clinical laboratory science (medical technology) internship. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

429/.529. Epidemiology of Infectious Diseases (3)
Prerequisites: BIOL 250, MICR 320, 322, all with a grade of "C" or better. (Undergraduates enroll in MICR 429; graduates enroll in MICR 529.)
Principles of epidemiology and application to health: fundamentals of biostatistical calculations; basic factors in classic epidemiological studies and prevention and control of infectious diseases.
Letter grade only (A-F). (Lecture 3 hrs.)

430. Immunology (3) F,S
Prerequisite: BIOL 340 with a grade of "C" or better.
Study of cellular and molecular components of immune system, including how immune system recognizes pathogens, how it functions in various types of immune responses, mechanisms of vaccines, immunodeficiencies, transplantation, allergy, and autoimmunity.
Not open for credit to students with credit in BIOL 430. Letter grade only (A-F). Same course as BIOL 430. (Lecture 3 hrs.)

430L. Immunology Laboratory (2)
Prerequisite: BIOL 340 with a grade of "C" or better. Prerequisite: Corequisite: MICR 430.
Modern and classical techniques in cellular and molecular immunology. Experimental techniques have broader applications to other fields and include mammalian cell culture, antibody purification, SDS-PAGE, western blots, and assays of apoptosis, cell proliferation, cellular activation, and antibody-antigen interactions.
Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required.

471/.571. Bacterial Physiology (3) S
Prerequisites: MICR 320, CHEM 441A; both with a grade of "C" or better. (Undergraduates enroll in MICR 471; graduates enroll in MICR 571.)
Cellular physiology at molecular level as related to bacterial growth, reproduction, nutrition, metabolism, and ecology.
Letter grade only (A-F). (Lecture 3 hrs.)

473. Food and Industrial Microbiology (3) F
Prerequisites: MICR 200 or 211; CHEM 441A or 448; both with a grade of "C" or better.
Role of microorganisms in food and other industrial processes; emphasis on bacteria, yeasts and molds.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.) Course fee may be required.

477/.577. Biotechnology: Applications of Molecular Techniques and Bioinformatics (4) F
Prerequisite: BIOL 340 or 370 or CHEM 441A, B; all with a grade of "C" or better. (Undergraduates enroll in MICR 477; graduates enroll in MICR 577.)
Theory and techniques for isolating, amplifying, and analyzing genes, genomes, transcripts, and proteins. Data mining; the use of computers in experimental design and/or functional analysis, use of microarrays, and future of nanotechnology.
Letter grade only (A-F). (Lecture 3 hrs., activity 2 hrs.)

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Microbiology Courses (MICR)

490/590. Special Topics in Microbiology (1-3)
Prerequisites: MICR 211 with grade of "C" or better, and consent of instructor. (Undergraduates enroll in MICR 490; graduates enroll in MICR 590.)
Topics from selected areas of microbiology. Course content will vary from section to section. Topics announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F). (Lecture 1-3 hrs.)

495. Instr. in Laboratory Teaching (1-2) F,S
Prerequisites: Consent of lecture instructor, a "B" or better in the course in which the student elects to do MICR 495 (another course with laboratory may be substituted with consent of instructor), and an overall GPA of at least 2.75.
Individual instruction in organization and techniques of teaching a microbiology laboratory.
Not open for credit to students with credit in BIOL 495. May be repeated for letter grade and degree credit to a maximum of two units for any single degree or option. Any units beyond the three taken for a letter grade in BIOL 495 or MICR 495 or any combination of the two will be taken credit/no credit. Same course as BIOL 495. (Conference 1 hr., laboratory 3 hrs. per unit.)

496. Undergraduate Directed Research (1-3) F,S
Prerequisites: Consent of instructor and consent of appropriate undergraduate advisor.
Research in a specific topic in biological sciences approved and directed by a faculty member in the Department of Biological Sciences.
Not open for credit to student with credit in BIOL 495. May be repeated for a letter grade and degree credit to a maximum of three units for any single degree or option. Any units beyond the three taken for a letter grade in BIOL 495 or MICR 495, or any combination of the two, will be taken credit/no credit. Same course as BIOL 495. Not available to graduate students. (Conference 1 hr., laboratory 3 hrs. per unit.)

GRADUATE LEVEL

515/415. Marine Microbiology (3) F, odd years
Prerequisite: MICR 355 or BIOL 355 or BIOL 353 with a grade of "C" or better. (Undergraduates enroll in MICR 415; graduates enroll in MICR 515.)
Designed to familiarize microbiology and marine biology students with the role of microorganisms in the marine environment. Topics will include ecology, physiology, biochemistry, and diversity of marine microbes. Laboratory/field component will emphasize examination and cultivation of local marine microbes.
Not open for credit to student with credit in BIOL 415. Letter grade only (A-F). Course fee may be required. Same course as BIOL 515. (Lecture 2 hrs., laboratory and field 3 hrs., weekend field trip may be required.)

516/416. Virology (3) F,S
Prerequisite: MICR 320 or BIOL 340 with a grade of "C" or better. (Undergraduates enroll in MICR 416; graduates enroll in MICR 516.)
Virology at molecular level including viral replication and molecular basis of viral pathogenesis; survey of human, animal, and plant viral diseases. Current trends for prevention and treatment of viral diseases.
Letter grade only (A-F). (Lecture 3 hrs.)

523/423. Hematology (4) F
Prerequisite: BIOL 340 with a grade of "C" or better. (Undergraduates enroll in MICR 423; graduates enroll in MICR 523.)
Study of blood and coagulation system. Normal cell structure and function and physiological and morphological changes in inflammation, leukemias, and anemias discussed. Clinical, diagnostic, and research techniques for observing blood and pathologic case studies included.
Useful for student interested in medical professions. Required for clinical laboratory science (medical technology) internship. Letter grade only (A-F). (Lecture 5 hrs., laboratory 5 hrs.)

529/429. Epidemiology of Infectious Diseases (3)
Prerequisites: BIOL 209; MICR 320, 322; all of a grade of "C" or better. (Undergraduates enroll in MICR 429; graduates enroll in MICR 529.)
Principles of epidemiology and application to health; fundamentals of biostatistics; basic factors in classic epidemiological studies and prevention and control of infectious diseases.
Letter grade only (A-F). (Lecture 3 hrs.)

571/471. Bacterial Physiology (3)
Prerequisites: MICR 320, CHEM 441A; both with a grade of "C" or better. (Undergraduates enroll in MICR 471; graduates enroll in MICR 571.)
Cellular physiology at molecular level as related to bacterial growth, reproduction, nutrition, metabolism, and ecology.
Letter grade only (A-F). (Lecture 3 hrs.)

577/477. Biotechnology: Applications of Molecular Techniques and Bioinformatics (4) F
Prerequisite: BIOL 340 or 370 or CHEM 441A,B; all with a grade of "C" or better. (Undergraduates enroll in MICR 477; graduates enroll in MICR 577.)
Theory and techniques for isolating, amplifying, and analyzing genes, genomes, transcripts, and proteins. Data mining, the use of computers in experimental design and functional analysis, use of microarrays, and future of nanotechnology.
Letter grade only (A-F). (Lecture 3 hrs., activity 2 hrs.)

590/490. Special Topics in Microbiology (1-3)
Prerequisites: MICR 211 with grade of "C" or better, and consent of instructor. (Undergraduates enroll in MICR 490; graduates enroll in MICR 590.)
Topics from selected areas of microbiology. Course content will vary from section to section. Topics announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F). (Lecture 1-3 hrs.)

661. Seminar in Microbiology (2)
Prerequisite: Consent of instructor.
Critical evaluation of literature in this field, including oral and/or written presentation of critiques.
May be repeated to a maximum of 4 units with different topics. Letter grade only (A-F) (Seminar 2 hours)

697. Directed Research (1-3) F,S
Prerequisite: Consent of instructor.
Research on specific topic approved and directed by faculty members in the biological sciences. Written report required.
May be repeated for a letter grade and degree credit to a maximum of three units. Any units beyond the three taken for a letter grade in BIOL 697 or MICR 697 or any combination of the two must be taken credit/no credit.

698. Thesis (1-6) F,S
Prerequisites: Advancement to Candidacy for the Master of Science in Microbiology, consent of the chair of the thesis committee and the departmental graduate advisor.
Planning, preparation, writing, defense, oral presentation, and completion of a research thesis in the biological sciences.
Letter grade only (A-F).
Introduction
The College of Business Administration seeks to prepare its students for entry into successful careers in business. As each graduate pursues a successful career, it is anticipated that personal responsibility will be accepted for maintaining and enhancing the quality of the society in which business and the individual operate.

The College
The College of Business Administration has five departments and one other academic program: Accountancy; Finance; Human Resource Management and Management; Information Systems; Marketing; International Business. The five departments and International Business are responsible for administering one or more of the degree options.

Academic Advising
The College of Business Administration maintains an advising and admissions office in CBA Room 105 for undergraduate students. There is an office for graduate students in CBA 303. Advisors are available in these offices throughout the semester to assist students with admission, registration, and degree requirement information. An undergraduate handbook is available in the campus copy center.

Student Center for Professional Development (SCPD)
The Student Center for Professional Development (SCPD) fosters personal, professional, and leadership development and knowledge acquisition of CSULB College of Business Administration undergraduate students. SCPD provides resources and opportunities that support business students from college entry to graduation. SCPD coordinate multiple programs, events, workshops, and community service activities to support student learning. The Center offers up to six programs yearly contingent upon needs and resources.

The Business Excellence Certificate (BEC) Program is a curriculum-based professional development certificate program. The program aims to increase professional competencies and personal effectiveness of CBA students.

The City Leadership Program is a curriculum-based program that highlights and explores the economic, political, community, and governmental resources and organizations within the City of Long Beach.

The Community College Mentoring Program (CCMP), CSULB business students help motivate and guide a group of first-yearセントロ College students to succeed at the community college level and to transfer into a four-year university.

The Corporate Mentoring Program is a year-long structured mentoring program that pairs junior and senior business students with corporate professionals.

Programs at a Glance
Bachelor of Science in Business Administration
Options in: Accountancy; Finance; Human Resources Management; International Business; Management; Management Information Systems; Marketing;

Operations Management
Note: Students who complete and formally declare two options may be regarded as having completed a double major, and appropriate notation can be made on the transcript.

Minors in Business Administration
Management Information Systems, Human Resources Management, Entrepreneurship.

Master of Business Administration
Specialization in the following areas: Accountancy, Finance, Health Care Management, Human Resources Management, Information Systems, Management, Marketing. (Refer to following pages for information.)

Accreditation
Undergraduate and graduate programs are nationally accredited by the Association to Advance Collegiate Schools of Business - International (AACSB). 777 South Harbour Island Blvd., Suite 750, Tampa, FL 33602-5730, phone: (813) 769-6500.
The Community Scholars Program, CSULB business students help motivate and guide a group of Jordan High School seniors to succeed in high school and pursue higher education.

The Emerging Leaders Program is a fall semester program for new CSULB first-year students and transfers who introduce these students to SCPD programs and to campus resources and services.

SCPD also encourages students to become involved in community service. The Emerging Leaders Program is a fall semester program for new CSULB first-year students and transfers who introduce these students to SCPD programs and to campus resources and services.

For more information on SCPD programs, services and resources, please contact SCPD at (562) 985-2265 or scpd@csulb.edu

Financial Assistance

Financial assistance is provided to business students through the University Financial Aid Office. That office administers funds made available through the federal and state governments and through certain private sources. Awards are made to students who demonstrate a need for assistance with educational expenses.

Achievement Awards

Beta Gamma Sigma Outstanding Students in Business applications are usually due April 1. The award is present in early May at the annual Beta Gamma Sigma Installation and Banquet. Further information can be obtained from the Beta Gamma Sigma faculty advisor, Professor Jasmine Yur-Austin.

Applications for Outstanding Undergraduate are usually due in early to mid-January. Each department may select up to three Outstanding Graduates. From among the chosen Outstanding Undergraduates, the Dean of the College selects the Dean’s Medalist. These awards are reserved for graduating seniors and require a minimum GPA along with other considerations for applicants.

The Wall Street Journal award is based upon the highest GPA of a graduating senior. The Gary B. Klein Scholarship award is reserved for Marketing majors and is selected from among graduating seniors. The Delta Sigma Pi Scholarship Key winner is selected from among those graduating seniors with the highest GPA.

All those award recipients together with CBA Honors Program students are recognized in print in the annual Commencement Program. They are, along with scholarship recipients, also recognized at a special awards luncheon in May where plaques, certificates, and other tokens of achievement are presented.

Additional information about these distinctions and their requirements can be obtained from Nelson T. Horn, Executive Assistant to the Dean at (562) 985-5307.

Student Organizations

Numerous organizations are available for business students. They include: American Marketing Association, Beta Alpha Psi/Accounting Society, Black Business Students Association, Delta Sigma Pi, Financial Management Association, Hispanic Students Business Association, Human Resources Management Association, Information Systems Students Association, International Business Association, MBA Association, Society for the Advancement of Management, and Law Society. Student organizations typically host professional representatives and industry at weekly meetings and also sponsor a variety of social, recreational and community service events.

The Associated Business Students Organization Council (ABSOC) is the coordinating council for all business student organizations. ABSOC and the Associated Students co-sponsor the annual “Meet the Industries Expo.” This annual spring event includes morning professional panels and an afternoon career expo which draws over 40 companies and several hundred students. Other programs each semester include a business student organizations’ fair, an evening recruitment program, the student-faculty staff mixer, and ABSOC Challenge (recreational competition).

Beta Gamma Sigma, founded at the University of Wisconsin in 1907 as a business honor society, is the only national honor society recognized by the AACSB – International. Membership is available to business students at California State University, Long Beach only because the College of Business Administration is accredited by AACSB.

Elect to membership in Beta Gamma Sigma is the highest scholastic honor that a student in business administration can attain. To be eligible for membership at CSULB students must rank in the upper three percent of their junior class or the upper seven percent of their senior class, or rank in the upper ten percent of their receiving masters degree in business administration.

Computer and Information Technology

Students in the degree program develop basic understandings and competencies relating to information processing, the application of computers in business and government, management information systems concepts, and computer programming. A computer laboratory facility is maintained within the College to provide computer access for business students.

General Policies and Regulations

Specific University and College requirements are detailed in various sections of this Catalog. Every student must develop complete familiarity and understanding of the regulations and requirements by which successful completion of a program will be determined. (Also see pertinent section regarding University General Regulations and Procedures).

Admission Under Impaction

Fall and Spring freshman applicants to the Bachelor of Science in Business Administration will be placed in the pre-major code for Business Administration. Transfer applicants must apply to the University during the initial filing period of October and November for the following fall semester or August for the following spring semester. They must indicate their choice of major on the application.

Continuing students seeking admission to the upper-division major in Business Administration must submit a supplemental application to the College of Business Administration Advising Center (CBA, Room 105). Whereas there is no specific deadline for filing, it usually takes a minimum of two weeks to complete the application process. Therefore, students should file their applications no later than two weeks before their next Early Registration access date.

Applicants must be able to demonstrate that they will meet the following requirements for admission prior to the
semesters for which the application is submitted.

To be eligible for admission to the majors in Business Administration, applicants must meet requirements for admission to the university as a freshman or transfer student. Applicants must have completed 60 units applicable toward a CSULB degree prior to the term for which the application is submitted. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on cumulative grade point average.

Special Enrollment Status

Enrollment through Open University (University College and Extension Services) is allowed only on a space-available basis. Space availability is not based on the number of unoccupied chairs in a classroom. Instead, it is determined by the type of course and teaching method. The student must otherwise be qualified.

CBA Policy on Course Transfers/Substitutions

The College of Business Administration has a strict policy on course transfers/substitutions. This is necessary to preserve the academic integrity of programs and to meet accreditation standards. The transfer/substitution policy has two separate components: prior to matriculation at CSULB and post-matriculation at CSULB.

Prior to Matriculation at CSULB

Students may petition for credit courses completed at another recognized institution prior to matriculation at CSULB subject to the following guidelines:

1. Lower division courses (with a grade of "C" or better) are transferred with the approval of the appropriate Department Chair.
2. Upper division courses (with a grade of "C" or better) from AACSB-accredited business schools are transferred with the approval of the appropriate department chair.
3. Upper division courses (with a grade of "C" or better) from non-accredited business schools may be transferred subject to the approval of the appropriate department chair and the associate dean.

Post Matriculation at CSULB

Students may not transfer for credit any upper division major core courses taken at another school concurrently with or subsequent to their matriculation at CSULB. Exceptions are approved with verifiable proof and genuine needs according to the following requirements: (1) approvals must be secured prior to enrolling in courses in another institution; (2) no more than two courses may be transferred or substituted; and (3) a grade of "B" or better is necessary for course transfers/substitutions. Departments have the discretion to be more stringent with regard to these requirements. Exchange students and students participating in Study Abroad Programs are exempt from these rules.

Grading Policy

Business majors and minors may not exercise a Credit/No-Credit grading option for courses required by the College of Business Administration in their program. No course taken for Credit/No-Credit grading will be accepted to fulfill a Business requirement. Enrollment in a business course as an auditor is not permitted.

Undergraduate Programs

Honors in Business

The College of Business Administration (CBA) at California State University, Long Beach, offers the opportunity for a selected group of outstanding students to participate in the CBA Honors Program. This enriched, more demanding program gives students an opportunity to enroll in special "Honors Seminars") composed of a small number of the CBA's most outstanding students that are taught by a select group of the College's faculty. In addition, students complete a senior project (much like an honors thesis), the topic of which is based on the individual student's interests and skills. Thus, the Honors Program offered by the CBA (CBAHP) is intended to be intellectually rewarding, and to provide a valuable experience that enhances students' future careers. Special focus is on those students who wish to pursue an advanced degree and career in academia.

The program is designed as a 3-semester program, usually beginning in the Summer semester before the senior year. The program is also open to motivated juniors. Typically, CBAHP students take a preliminary honors seminar the first semester, and progress to advanced honors seminars and their senior project the following academic year.

Admission

Admission is limited to approximately 20 students per year, but may increase depending on demand and college resources. Applicants are selected for their promise as interesting and creative individuals, not simply on the basis of grades or test scores.

Admission Requirements

Each applicant must meet the following basic requirements:

1. A minimum 3.5 cumulative GPA in all college and university courses, and a minimum of 3.5 GPA in the major. Students with a 3.2 – 3.49 may be admitted if they are nominated by two tenured faculty members of the CBA. A maximum of 10% of the students in the program will be admitted by nomination.
2. A minimum score of 14 on the Writing Proficiency Exam (WPE).
3. A completed application form. A personal interview may be requested at the discretion of the Program Director or Advisory Board.
4. At least one letter of reference from a CSULB tenured (or tenure-track) faculty member (CBA faculty are preferred). Additional outside character references (maximum of 2) are admissible as supplemental support for admission.

Applications should be addressed to the:
Director of the CBA Honors Program
College of Business Administration
1250 Bellflower Blvd.
Long Beach, CA 90840

Program Requirements

Award of the Honors in Business requires:

1. Completion of the requirements of the major, with a minimum overall GPA of 3.5 and a minimum GPA in the major of 3.5.
2. A minimum GPA of 3.5 for all CBA Honors Program seminars.
3. Completion of the 3 Honors Seminars. The seminars bring together scholars and noted business leaders from a broad range of disciplines/industries, and may involve multiple CBA faculty over the course of the program. Course projects are designed to fit with the nature of the issues addressed, the expertise of the various distinguished guest speakers, and interests of the individual student.
4. Successful completion of the required Honors Thesis.
5. Students who fail to meet the above requirements or those who fail to enroll in CBA Honors Program courses will be withdrawn from the program. Others may also be withdrawn at the discretion of the Program Director for such reasons as unethical behavior or misconduct.

Certificate in Transportation (code CBA_CT01)

Requirements
1. A bachelor of science degree in Business Administration which may be completed concurrently with the certificate requirements;
2. A minimum of 15 units of transportation and transportation-related course work at California State University, Long Beach to be selected with the approval of the Program Director.
3. A grade of "C" or higher will be required for every course;
4. The certificate program does not permit the use of the Credit/No Credit option.

Graduate Programs

The College of Business Administration offers graduate study leading to the Master of Business Administration (MBA). The degree offered by the College of Business Administration is accredited by AACSB - International. The MBA is designed to serve the community by providing graduate business education to persons who show promise of leadership and success in business or related fields. For this reason, the faculty of the College of Business Administration has established rigorous standards of admission and completion for the program.

Admission to Graduate Study

In addition to admission by the University Office of Admissions and Records, an applicant for graduate study in Business Administration must apply to and be admitted by the College of Business Administration. It is the responsibility of the student to purchase a current CSULB Catalog which sets forth the policies of the University and the College of Business Administration graduate program.

Admission Procedures
1. Students interested in applying to the MBA program at CSULB should file a University application online at www.csumentor.edu and an MBA Application Packet from the Graduate Program Office at College of Business Administration. Students must complete and submit both applications in order to be considered for admission into the graduate program in business. Students applying for the MBA should mark "other masters" as the degree objective, and 05011 as the major code. Students should submit the MBA application with two letters of recommendation, current resume, and statement of purpose directly to the MBA office.
2. Two complete sets of official transcripts of all college work attempted are required. One set must be sent to California State University, Long Beach, Office of Admissions and Records, 1250 Bellflower Blvd., Long Beach, CA 90840. The other set of official transcripts must be sent directly to the Graduate Programs Office at the following address: California State University, Long Beach, College of Business Administration, Graduate Programs and Executive Education Office, 1250 Bellflower Blvd., Long Beach, CA 90840.
3. Graduate Management Admission Test (GMAT) scores must be forwarded directly from the GMAC to the College of Business Administration Graduate Programs Office. Test scores over 5 years old will not be considered.
4. Foreign students should first contact the Center for International Education on campus for special deadlines. Foreign students are required to take the TOEFL test and achieve a score of 550, in addition to the steps above required of all applicants to the MBA program. Deadlines for international applications are:
   - April 1 for Fall Semester
   - October 30 for Spring Semester
   - March 30 for Fall Semester
   - October 30 for Spring Semester
   One official copy of all transcripts, the MBA Application Packet, GMAT score and TOEFL score (if applicable), must be filed in the Graduate Programs Office by:
   - October 30 for Spring Semester
   - March 30 for Fall Semester
   Because of high demand for admission to the MBA program, it is advisable that students make their application to the program early. No action can be taken on applications until all required documents are received. Application materials submitted after these dates will not be considered.

Criteria

Admission will be granted to students showing high promise of success in post-baccalaureate business study. Each applicant's potential for graduate management education is evaluated on the basis of six major criteria:
1. Past Academic Record, as reflected in undergraduate GPA or other Graduate programs.
2. Graduate Management Admission Test (GMAT)
3. Managerial Experience: demonstration of increasing levels of responsibility.
4. Communication: ability to clearly identify the applicant's leadership potential, educational goals and academic strengths.
5. Two Letters of Recommendation
6. Statement of Purpose

Upon completion of evaluation by the College of Business Administration Graduate Programs office, the
student is notified by mail of acceptance or rejection. If accepted, the letter includes an evaluation listing prerequisites met by the student in previous course work and those still required for completion. Course work over ten years old at the time of acceptance will not be considered for satisfaction of the First Year Core.

Enrollment

In order to be admitted into the University as an MBA student you must meet all of the MBA Admissions criteria.

Admission to Graduate Courses

Only students who have been admitted to the MBA program may take graduate courses in Business Administration. The only exception is that students who have been admitted to other Master’s programs at CSULB may take select graduate courses in Business Administration to meet the requirements for their programs, with the permission of their major advisor and the Graduate Programs office.

Enrollment in graduate courses through the Open University will normally be permitted only for students in an AACS1B accredited graduate program elsewhere with a letter of permission from the Associate Dean of the student’s home university.

Continuous Enrollment

Once a student is accepted and enrolled in the MBA Program, he/she is expected to attend classes both semesters of the academic year. (Fall and Spring semesters are considered the regular semesters of the academic year; Summer attendance is optional.) Registration and completion of at least one course each semester satisfies the Continuous Enrollment requirement.

If a student is unable to satisfy the Continuous Enrollment requirement, he/she must complete the Educational Leave of Absence procedures detailed below. Continuous Enrollment status will only be preserved if the student’s absence from a regular semester has been processed and approved through the Educational Leave of Absence procedures.

Students failing to maintain Continuous Enrollment status will be administratively removed from the MBA Program. Registration privileges will be revoked. Students planning to continue in the MBA Program who have been administratively removed due to the violation of the Continuous Enrollment condition will be required to reapply to the MBA Program and to the University.

Leave of Absence

Any MBA student in good academic standing may request an Educational Leave. Students requesting an Educational Leave must complete an Educational Leave Form, in advance, including an explanation of their reasons for seeking the leave and a statement of when they intend to resume academic work. The completed form is to be submitted for approval to the Graduate Programs Office and the University Admission and Records Office in accordance with University Policy. The minimum initial leave will be one full semester; the maximum will be one calendar year. A student may request, in writing, in advance, an extension of leave. Under no circumstances will the total number of approved educational leaves exceed two, nor will the duration of approved educational leaves extend beyond two calendar years.

Students returning from an approved one semester educational leave are not required to submit an application form. Students on leave longer than one semester must apply for re-admission to the university. Students returning from an absence for which an educational leave was appropriate but not approved in advance must complete the entire MBA admission process.

An Educational Leave of Absence, if properly requested and processed, allows a student to satisfy the Continuous Enrollment requirement and therefore does not affect their good standing status. Students on an approved educational leave of absence will continue to receive registration information.

Graduate students who plan to enroll for credit at another institution of higher education during the leave period must obtain prior approval for the transfer of course credit to the student’s program for the department chair in question and the Graduate Programs Director.

The period of an educational leave is counted in the calculation of elapsed time under the regulations governing the seven year maximum period for completion of the MBA degree requirements.

For the period of an educational leave the student’s rights under the “Election of Regulation” rule are preserved, maintaining the right of the student to elect regulations as if he or she had maintained continuous attendance. See the CSULB Catalog, General Rules and Procedures section, for a complete explanation of the Election of Regulation - “Catalog Rights”.

An educational leave presupposes no expenditure of University resources or faculty and staff time in behalf of the student during the period of the leave. In addition, no computer facilities, no library privileges, and no student services are available to a student on educational leave.

Transfer Credit

Assuming the Continuous Enrollment requirement has been satisfied, a maximum of six credits that closely complement the student’s degree objectives may be applied toward the requirements for the MBA degree beyond the First Year Core under the following conditions:
1. the credits under consideration must be graduate credits
2. the course work must be taken at an AACS1B accredited graduate program
3. prior approval must be obtained from the Graduate Programs Director
4. prior approval must be obtained from the department chair of the course work being transferred

The remaining units must be completed in courses at CSULB reserved exclusively for graduate students.

Scholastic Standards/Probation/Disqualification

A student who fails to maintain a cumulative GPA of 3.0 or higher in all work completed as a graduate student at this University or in all transferred work applied to the program will be placed on academic probation. The somotor in which the student’s GPA falls below 3.0 is the First Probational Semester.
A student on probation, who at the end of the Third Probationary Semester (or summer, if classes are taken) fails to obtain a cumulative GPA of 3.0 or higher on all units attempted in post-baccalaureate work at CSULB, will be required to complete a full year of the graduate program. The student should note that the cumulative GPA is calculated by the University Admissions and Records Office and includes all upper division and graduate courses taken while enrolled in the graduate program.

A grade of "C" or better is required in any course taken to satisfy first or second year Core requirements. A grade of "B" or better is required in GBA 699. If either of these requirements is not met, a student must take the course a second time or withdraw from the program. A second failure to achieve the requirement grade will result in involuntary separation from the program. This requirement operates independently of the requirement for a cumulative GPA of 3.0 or better.

Master of Business Administration (code CBA_MB01)

The Master of Business Administration program develops comprehensive skills in information processing in a complex and competitive business environment. The program prepares students for responsible administrative positions and provides the background essential for advancement in professional management careers. The Master of Business Administration degree encompasses a program of breadth which builds a wide range of competencies required for effective management while permitting students to specialize in a functional area.

The Master of Business Administration is normally a 48-unit program for the graduate without an undergraduate degree in Business.

General MBA

Requirements

The Master of Business Administration program requires completion of a minimum of 36 units of graduate course work as established and approved by the College of Business Administration. The MBA program must include:

I. First Year Core
   I. First Year Core 0-12
   II. Second Year Core 21
   III. Advanced Study 12
   IV. Capstone Course 3
   Total units: 36-48

Students who have not had an economics course prior to entering the MBA program must complete an economics course as a condition to obtaining an MBA degree.

MBA students should be guided by the following sequence of events as they progress through their graduate study in the College of Business Administration.

I. First Year Core: Common Body of Knowledge

The masters degree presupposes mastery of a common body of knowledge. Students with a bachelor's degree in business from this University or from other AACSB accredited business schools within the last 10 years will have met much of the First Year Core requirements. Individual Business Administration courses taken as an undergraduate student at another AACSB institution may also meet specific First Year Core requirements. Upon acceptance to the program, student's transcripts are reviewed for completion of the necessary coursework for mastery of the common body of knowledge. A grade of "C" or better is required to meet the criteria.

Waivers of First Year Core are based upon previous educational background at either a graduate or undergraduate level. Information on waivers may be obtained from the College of Business Administration, Graduate Programs Office. Students who have not met the entire common body of knowledge requirements prior to admission to the MBA Program will be required to enroll in the appropriate First Year Core Courses. This core consists of four courses (12 units): ACCT 500, FIN 501, MGMT 500, MKTG 500. If an MBA student does not have an undergraduate degree in business or does not have exposure to business law and ethics, he/she would be required to acquire that knowledge by taking BLAW 520 or an equivalent course prior to graduation.

II. Advancement to Candidacy

Students admitted with all First Year Core requirements completed must file an application for Advancement to Candidacy for the degree after completion of their first six units. Other students must file the application during the semester in which the First Year Core requirements are to be completed. Prior to advancement to candidacy, a student must:

1. Be accepted into the MBA Program.
2. Complete an overall minimum 3.0 cumulative GPA, including work transferred from other institutions, and a minimum 3.0 GPA in all work completed at this University.
3. Complete all First Year Core Requirements, with no grade lower than "C".
4. Fulfill the Graduation Writing Assessment Requirement (GWAR) or must have received a 4.0 or better on the writing portion of the GMAT.
5. Prepare an official student program in consultation with the MBA Office. This program must include the Second-Year Core in effect at the time of Advancement to Candidacy, the 12 unit program for the area of Advanced Study and the Capstone Course, GBA 699, for a total of 36 units.
6. File the application for Advancement to Candidacy with the Graduate Program office for approval by the Graduate Program Director.

III. Second Year Core

Upon completion of the First Year Core, either by waiver or graduate course work, students move directly into the Second Year Core. (See section on Advancement to Candidacy). This core consists of seven courses (21 units) which provide the breadth requirements for the MBA degree at the advanced level: ACCT 610, FIN 600, HRM 522, IS 691, IS 692, MGMT 647, MKTG 681.

IV. Advanced Study

The General MBA is designed for students with an undergraduate business degree or any other student desiring a more broad-based MBA curriculum. The General MBA requires 12 units of graduate course work in three different areas within the College of Business Administration subject to approval by the Graduate Programs Office.
MBA Specializations
Specializations require 12 units with at least nine units of graduate course work in one area.

Accountancy
Requirements: nine elective units selected from ACCT 640, 680, 695, 697.

Engineering Systems
Allows students with a strong engineering background to specialize within the MBA program in an area that may more closely match their career objectives. This specialization consists of graduate courses within the College of Engineering, subject to approval by the Graduate Programs Director.

Finance
Requirements: nine elective units selected from BLAW 524, FIN 620, 630, 650, 690.

Health Care Management
Requirements: HCA 502 and any two of the following: HCA 536, 537, 538, 550, 552.

Human Resources Management
Requirements: nine elective units selected from HRM 654, 655, 657.

Information Systems
Requirements: nine elective units selected from IS 545, 550, 564, 580, 584.

Management
Requirements: nine elective units selected from MGMT 542, 543.

Marketing
Requirements: nine elective units selected from MKTG 610, 653, 666, 668, 669, 685.

May count three units of Directed Studies (697) toward Advanced Study requirements. Elective courses designed to fulfill specialization requirements must be approved by the Graduate Programs Office through the completion and acceptance of student’s Advancement to Candidacy form.

V. Capstone Course: GBA 699
Integrated Analysis, GBA 699, is taken as the last or capstone course in the program. Students must complete the Second Year Core and Advance to Candidacy before enrolling in GBA 699. This critical course is given during the Fall and Spring semesters. In this comprehensive analysis, the student will integrate the knowledge obtained in the functional areas. This capstone course serves in place of either comprehensive examination or thesis as the required evaluation of candidate competency.

Students must obtain a grade of “B” or better in GBA 699 in order to receive an MBA degree. Application for acceptance into GBA 699 must be filed within the MBA Office before the end of the fourth week of instruction in the semester preceding enrollment in the course. Application forms and advisement relating to this important requirement are available in the Graduate Programs Office.

VI. Time Limitation
All courses on the official student program (Advancement to Candidacy) must be completed within seven years of commencement of the first class toward fulfillment of the Second Year Core requirement.

VII. Graduation Writing Assessment Requirement (GWAR)
As a requirement for advancement to candidacy, all graduate students must demonstrate writing competency by:

1. Passing an approved CSULB assessment of writing competence (GWAR).
2. Having already passed an assessment of writing competence (GWAR) while matriculated at another CSU campus, or
3. Earning a CSULB-approved passing score on the writing portion of an approved standardized graduate admissions test, such as the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT).

Assessments of writing competence from non-CSU campuses will be evaluated by the GWAR Coordinator as a fulfillment of the GWAR, on an articulation basis if possible or on a case-by-case basis if necessary.

Students with degrees from non-CSU campuses must either provide evidence of meeting the requirement with adequate scores on a CSULB-approved standardized test or attempt to satisfy the GWAR by the end of their first semester of matriculation at CSULB.

Master of Business Administration
Master of Fine Arts in Theatre Management (code THEAMZ201)
The MBA/MFA degree will prepare arts professionals in all areas of both arts administration and business for professional careers in arts management—in performing and exhibiting arts organizations, in arts service organizations, in government, funding agencies and arts councils. The program prepares students for high level administrative positions and provides the background essential for advancement in professional management careers.

Admission Criteria for MBA/MFA
Candidates for this program must hold the equivalent of an undergraduate degree from an accredited institution of higher learning with a minimum of 24 units of upper division work in Theatre Arts. They should have achieved an undergraduate grade point average (GPA) of at least 2.75 (B-) and 3.0 GPA in upper division theatre courses.

All candidates for admission are required to complete the Graduate Management Admission Test (GMAT) and achieve a score of at least 475. The GMAT measures general verbal, mathematical, and analytical writing skills that are developed over a long period of time and are associated with success in the first year of study at graduate schools of management. For each applicant, there is a departmental evaluation, based upon diagnostic examination and an analysis of official undergraduate transcripts to determine deficiencies and all areas which must be strengthened by the graduate program.
Requirements

Business Core 1 (12 units)
ACCT 500, FIN 501, MGMT 500, MKTG 500

Business Core 2 (21 units)
ACCT 610, FIN 600, HRM 652, IS 601, IS 602, MGMT 647, MKTG 661

Business Elective (3 units)
Theatre Core (9 units)
THEA 623, 524, 696

Theatre Management (24 units)
THEA 502, 503, 504, 507, 550, 602 (6 units), 603

Theatre Practicum (12 units)
THEA 517 (4 units), 518 (4 units), 519 (4 units)

Culminating Thesis/Project (3 units)
THEA 690

Theatre Electives (6 units)
Electives from the University at large through advisement

Courses (CBA)

UPPER DIVISION

300. International Business (3)
Introduction to nature, dimensions, and environment of international business. Emphasis on business functions, practices, and decisions as influenced by cultural, political, economic, social, and institutional factors in various parts of world. Diffusion of information technology.
Letter grade only (A-F).

397. Junior Honors Seminar
Prerequisite: Acceptance into the CBA Honors Program. Empirical, theoretical, and practical research methodology: fundamentals and advanced topics. Visits by faculty and business professionals focus on current issues and methods for solving business problems. Literature review and written proposal required for Honors Thesis. Letter grade only (A-F).

400L. Business Ethics (3)
Prerequisites: Completion of the Foundation, at least one Exploration course. Various types of ethical dilemmas that take place in business organizations and acquire concepts and tools needed to manage these complex value conflicts for the well being of individuals, organizations, and society.
Same course as PHIL 400L. Not open for credit to students with credit in PHIL 400L. Letter grade only (A-F).

401A. Ethical Leadership (2)
Prerequisite: Edna Devit Honors California Student Leadership Institute application and consent of instructor. Explores ethical leadership challenges related to business, technology, values, relationships, and healthcare. Team-building, role-playing, and networking with guest speakers are integral to the class. Students are required to complete both CBA 401A and CBA 401B within the same academic year. Letter grade only (A-F).

401B. Ethical Leadership (2)
Prerequisite: CBA 401A with a grade of “C” or better in the immediately preceding fall semester and consent of instructor. Continuation of CBA 401A. Explores ethical leadership challenges in media, education, government, and management. Community service and networking with guest speakers are integral to the class.

Students required to complete CBA 401A and CBA 401B within the same academic year.
Letter grade only (A-F).

493. Business Internship (1-3)
Prerequisites: Classified business major and Instructor consent. IS 301.
Qualifying students placed in career-related paid assignments in private or public agencies or businesses. Organized plan utilizing series of seminars and learning agreements required with selected reading and writing assignments. A minimum of 120 hours paid experience per semester is required. May be repeated to a maximum of 6 units.

494. Short-Term Study Abroad (3)
Prerequisite: Consent of Instructor. Topics of current interest in business administration selected for intensive study, linked to a group study abroad experience in a country such as China, France, Germany, Thailand, and Vietnam. Topics and study sites will be announced in the Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters.

495. Selected Topics (3)
Prerequisite: Consent of instructor, IS 301.
Topics of current interest in business administration selected for intensive study. May be repeated to a maximum of 6 units with different topics in different semesters. Topics will be announced in the Schedule of Classes. Letter grade only (A-F).

497. Senior Honors Seminar I
Prerequisites: CBA 397, IS 301.
Continuation of CBA 397, special emphasis on sampling, instrumentation, and data analysis. Topics covered may vary from year to year. Perform majority of data collection and preliminary data analysis for honors thesis. Letter grade only (A-F).

499. Senior Honors Seminar II (3)
Prerequisites: CBA 497, IS 301.
Completion of Honors Thesis. Data analysis completed, findings interpreted relative to research hypotheses; final report is submitted. Attention to preparing manuscripts for publication, academic review process, and making professional presentations. Learning by illustration and application. Visits by faculty and business leaders. Letter grade only (A-F).

Courses (GBA)

GRADUATE LEVEL

695. Selected Topics (1-3)
Prerequisite: MBA standing.
Topics change each offering and in the absence of significant duplication. May be repeated to a maximum of 6 units with different topics in the same semester. Topics to be announced in the Schedule of Classes. Letter grade only (A-F).

698. Thesis (2-4)
Prerequisite: CBA 601. Planning, preparation, and completion of a thesis in business administration.

699. Integrated Analysis (3)
Prerequisites: Student shall have completed all 2nd year core classes. Classified MBA status in the last semester or within six units of completion of the 33-unit minimum graduate program and advanced to candidacy.
Study of wide range of business problems and formulation of solutions. Integration of knowledge from all functional areas of business and its application to complex business problems arising out of changing technology, competitive market conditions, social changes and governmental actions. A grade of "B" or better is required for successful completion. Serves as required terminal examination for College of Business Administration graduate candidates. Project is required. Students must file application for entry into GBA 699 no later than the fourth week of instruction in the semester preceding the one in which GBA 699 will be taken. Application forms are available in the Graduate Programs Office. Letter grade only (A-F).

Courses (BLAW)

LOWER DIVISION

220. Introduction to Law and Business Transactions (3)
Law and the American legal system in today's business world. Contacts, sales, and commercial paper. Examination of the role and function of the judiciary, elements of civil and criminal law. Letter grade only (A-F).

UPPER DIVISION

320. Legal and Regulatory Environment of Business (3)
Prerequisite: BLAW 220.
Forms of business organizations, employment law, securities law, environmental law, anti-trust issues, and international transactions. Social, cultural, and economic influences on domestic and multinational corporations. Exploration of relationship of government to business. Introduction to business ethics. Not open for credit to students with credit in FIN 320. Letter grade only (A-F).

424. International Legal Environment of Business (3)
Prerequisite: BLAW 320, IS 561.
Subsidiaries, joint ventures and other forms of international business operations. Effects of treaties, laws and policies of governments on business operations. Resolution of business and investment disputes, protection of property rights, the financing and taxing of international operations, and ethical issues. Not open for credit to students with credit in ACCT 424. Letter grade only (A-F).

425. Legal Aspects of Real Estate (3)
Prerequisite: FIN 340, IS 501.
Basic principles of real estate law as related to conveyances, titles, private and public restrictions on the use of land, escrows, community property and financial transactions. Not open for credit to students with credit in FIN 425. Letter grade only (A-F).

GRADUATE LEVEL

520. Legal, Regulatory, and Ethical Environment of Business (3)
Prerequisite: MBA standing required.
Legal and regulatory environment in which managers must operate. Constitutional and judicial structures for resolving disputes, effect of governmental and political policies, and liability encountered by business in various defined areas of substantive law. Ethical issues faced by business. Not open for credit to students with credit in FIN 520. Letter grade only (A-F).

524. International Legal Environment of Business (3)
Prerequisite: BLAW 520.
A study of the international legal environment in which multinational firms operate. Topics include treaties and laws, government policies, resolution of legal disputes, regulation of competition, enforcement of property rights and issues involving ethical responsibilities. Not open for credit to students with credit in FIN 524. Letter grade only (A-F).

624. Cyberlaw (3)
E-commerce and public policy issues. Law and the globalized e-commerce environment. Legal, ethical, international and political aspects of technology as it relates to business. Jurisdiction, intellectual property, electronic payment systems and contracting, online securities offerings, telecommunications mergers and acquisitions, security. Not open for credit to students with credit in FIN 624. Letter grade only (A-F).

Department Graduate-Level Courses

Courses (ACCT)

560. Managerial and Financial Accounting (3)
Prerequisite: MBA standing required.
Analysis of accounting systems, preparation of financial statements, and computer information processes. Analysis and interpretation of accounting information as an aid to business decisions. Laboratory and/or class computer applications required. Letter grade only (A-F).

610. Advanced Cost Accounting, Budgeting and Control (3)
Prerequisite: ACCT 560 or equivalent with a grade of "C" or better.
Problems in planning, budgeting and cost control of decision making using a quantitative analysis approach. Emphasis on evaluation of the accounting information system. Laboratory and/or class computer applications required. Not open for credit to students with credit in ACCT 510. Letter grade only (A-F).

640. Tax Research and Planning (3)
Study of income tax law, uses in researching business problems arising under federal tax laws. Application of research techniques to compliance and tax planning problems. Analysis IRS procedures related to audits, tax collections, criminal prosecutions and federal tax litigation. Letter grade only (A-F).

680. Financial Statement Analysis (3)
Understanding and using financial reporting to make investment and lending decisions. Letter grade only (A-F).

695. Special Topics (1-3)
Prerequisites: Consent of instructor.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: MBA standing; consent of instructor. Individual study under faculty direction. Letter grade only (A-F).
Courses (FIN)

501. Financial Management Concepts (3)
Prerequisite: MBA standing required.
Integration of computer, management information systems and concepts to: (1) time value of money, risk, valuation, cost of capital, capital structure; (2) capital budgeting; (3) long-term financing decisions; (4) working capital policy and management; (5) financial analysis and planning.
Letter grade only (A-F).

600. Seminar in Business Finance (3)
Prerequisite: MBA standing required.
Financial theory and management: (1) time value of money, risk, valuation, cost of capital, capital structure; (2) capital budgeting; (3) long-term financing decisions; (4) working capital policy and management; (5) financial analysis and planning; (6) special topics.
May be repeated to a maximum of 3 units. Letter grade only (A-F).

620. Capital Budgeting (3)
Prerequisite: FIN 600.
The theory of capital budgeting within the framework of the firm. Cost of capital determination and logic of expansion vs. growth, and equity financing vs. debt financing. Computer applications required.
Letter grade only (A-F).

630. Seminar in Financial Forecasting (3)
Prerequisite: FIN 600.
Research projects in industry, individual company, product and commodity areas. Computer applications required.
Letter grade only (A-F).

650. Seminar in Investments (3)
Prerequisite: FIN 600.
Security analysis, portfolio planning, balance and adjustment as related to (1) individual circumstances of the investor, (2) specific market conditions, and (3) broader financial aspects of the economy. Presentation and interpretation of student reports on selected topics. Computer applications required.
Letter grade only (A-F). Course fee may be required.

690. Seminar in International Finance (3)
Prerequisite: FIN 600.
Background in economics, accounting and finance, graduate standing in business administration. Real and monetary factors in the finance of international business, international capital markets, movement of funds and special problem areas.
Letter grade only (A-F).

695. Selected Topics (3)
Prerequisite: Consent of instructor.
Topics to be announced in Schedule of Classes. Different topics each semester.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Individual study under direction of faculty.
Letter grade only (A-F).

699A-G. Applied Portfolio Management (3-3)
Prerequisites: FIN 699A: FIN 520, 690, 650; consent of instructor and Department Chair; FIN 699B: FIN 699A; consent of instructor and Department Chair.
FIN 699A offered in Fall and accepted students must enroll in FIN 699B in Spring.

Participation in management of actual investment portfolio. Research, monitor, and analyze securities and make, buy and sell recommendations for a student-managed investment fund. Contribute to publication of semi-annual fund report. Market, sector, and firm analysis with presentations and outside research.
Letter grade only (A-F).

Human Resources Management Courses (HRM)

510. Behavioral Science for Engineers (3)
Prerequisites: MBA standing.
Individual, group and organizational structure designs. Interpersonal relationships that are peculiar to managing and directing professionals. Managerial applications of behavior science concepts and research findings.
Not open for credit to MBA students.

652. Seminar in Human Resources Management (3)
Decisions and actions that impact management. Problems of productivity, employee commitment, employee development, employment law, and compensation. Staffing, training and development, performance appraisal, counseling, leadership and motivation, reward systems, participation and delegation, and disciplines. Discussion, cases, simulations, and presentations.
Letter grade only (A-F).

654. Seminar in Negotiation and Conflict Management (3)
Various forms of opposition interactions within organizations. Interpersonal, intragroup, and intergroup conflict. Distinguishing between functional and dysfunctional conflict, identifying sources and causes of conflict, and examining alternative styles and methods of conflict management. Discussion, cases, simulations, and presentations.
Letter grade only (A-F).

655. Seminar in Motivation and Organization Change (3)
Human motivation and organizational change. Traditional and modern theories of work motivation and change. Psychology and management of motivation, organizational change and development. Management skills, policies, and organizational characteristics that facilitate the creation of motivating, flexible organizations.
Letter grade only (A-F).

657. Seminar in Leadership Skills (3)
Development of leadership abilities. Effectiveness of numerous approaches to leadership from both managerial and psychological viewpoints. Understanding leadership styles and abilities of self and others through assessment. Personality, situational factors, group processes, followership, and implications for leadership training.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: MBA standing, consent of instructor.
Individual study under the direction of the faculty.
Letter grade only (A-F).

Courses (IS)

545/J445. Internet Applications Development (3)
Prerequisites: IS 6002 or equivalent and consent of instructor.
Theory and applications of the Internet. Applications development using tools such as HTML and FrontPage. Use and development of Internet applications in the Client/Server environment. Issues such as Internet business opportunities, network security, home page maintenance, Internet database interface and cooperative computing.
Letter grade only (A-F).

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550. Business Telecommunications Management (3)
Prerequisite: IS 602 or equivalent.
Introduction to the technologies and applications of telecommunications and networking, infrastructure planning and operation of organizational telecommunication networks. Management and control of Internet servers and mobile systems.
Telecommunication regulation and standards.
Letter grade only (A-F).

564/464, Network Modeling and Simulation (3)
Prerequisites: IS 601 and 550.
Fundamentals of simulation methodology for performance and feasibility study of business models. Basic probability distributions, random number generation, model formulation, evaluation results, validation, waiting-line simulation, and computer network performance measurement via simulation and use of computer software simulation packages.
Letter grade only (A-F).

580. Management Support Systems and Database Management Systems (3)
Prerequisite: IS 602 or equivalent.
Use of information and database techniques to support management decision making. Decision support systems, groupware, expert systems, executive information systems, database management systems (DBMS), database analysis and design, database manipulation languages (SQL and QBE), and data warehousing.
Letter grade only (A-F).

584/484, Electronic Commerce (3)
Prerequisite: IS 602 or equivalent.
Letter grade only (A-F).

601. Quantitative Methods for Managerial Decision Making (3)
Prerequisite: MBA standing required.
Statistical analysis includes probability, estimation, hypothesis testing, forecasting and decision process. Management sciences include quantitative modeling, math programming, decision support systems, and simulation applicable to various business functions. Use of computer software packages as analytical tools.
May be repeated to a maximum of 3 units. Letter grade only (A-F).

602. Management of Information Systems (3)
Prerequisite: MBA standing required.
Foundation and infrastructure of information technology applied to strengthen competitiveness. Effective utilization of strategic information systems, telecommunications, system development process, database concepts, and electronic commerce to enhance organizations' operations.
Letter grade only (A-F).

695. Selected Topics (3)
Prerequisites: Graduate standing and consent of instructor.
Topics to be announced in the Schedule of Classes.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisites: Graduate standing and consent of instructor.
Individual study under the direction of the faculty.
Letter grade only (A-F).

500. Business Policies, Operations and Organizations (3)
Prerequisite: MBA standing. Recommended preparation: IS 310 or 410.
Theory and philosophies of administrative organizations systems, Information systems, management functions, decision making, strategy and policy formulation, operations planning, and control systems.
Letter grade only (A-F).

541. Industrial Logistics (3)
Prerequisites: MBA standing, plus MGMT 500 or equivalent.
Systems analysis and synthesis of the general logistics system containing the marketing, production, and transportation activities. Definition of system components, outputs, activities and inputs. Specification and quantification of the major functional relationships interfacing these components.
Letter grade only (A-F).

542. Enterprise Structure and Operation (3)
Prerequisites: MBA standing and MGMT 500 or equivalent.
General enterprise system composed of the logistics, money, information, talent and decision sub-systems. Components of each of the sub-systems and their interactions in the operation of the total enterprise. Analysis via systems approach of defining outputs, activities and inputs.
Letter grade only (A-F).

543. International Business Policy (3)
Prerequisites: MBA standing, plus MGMT 500 or equivalent, 9 hours recommended of 500/600 level courses in the area of International business.
Current theory and principles of international business management pertaining to problems of formulating policy and developing strategies and tactics in the multinational corporation. Case studies, readings, logistic analysis and research report.
Letter grade only (A-F).

647. Seminar in Management Planning and Control Systems (3)
Prerequisites: MBA standing, plus MGMT 500 or equivalent.
Analysis of planning and control systems in management. Use of case studies and problems.
Letter grade only (A-F).

695. Selected Topics (3)
Prerequisites: MBA standing.
Topics to be announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisites: MBA standing, consent of instructor.
Individual study under the direction of the faculty.
Letter grade only (A-F).

Courses (MKTG)

500. Marketing Concepts (3)
Prerequisite: MBA standing required. Overview of the decision process in marketing.
Overview of decision process in marketing. Consideration of functional areas and interaction with total operations of the firm.
Application of information technology to development of marketing strategy and planning.
Letter grade only (A-F).

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COURSES (MKTG)

610. Seminar in Services Marketing (3)
Prerequisite: MKTG 500.
Problems and strategies for service businesses. Problems including inability to inventory, difficulty in synchronizing demand and supply, and difficulty in controlling quality. Cases and exercises in banking, health care, retailing, financial planning, consulting, professional services, and communication.
Letter grade only (A-F).

661. Seminar in Marketing Policies (3)
Prerequisite: MKTG 500.
Solving practical, profit-oriented problems in marketing. Sophisticated case analysis and discussion. Application of marketing principles and technologies, including information systems, databases, behavioral theories, and management techniques.
Letter grade only (A-F).

663. Seminar in Advertising Policies (3)
Prerequisite: MKTG 500.
Discussion and analysis of advertising situations, objective setting, creative strategies, media strategies and models, and evaluation. Applications of mass communication theories and marketing databases.
Letter grade only (A-F).

665. Seminar in Marketing Research (3)
Prerequisites: MKTG 500 and IS 501.
The role of research in the solution of marketing problems. Research methods in collecting, analyzing, and interpreting information for business use. Survey and experimental approaches included. Case studies and/or class projects required.
Letter grade only (A-F).

666. Seminar in International Marketing (3)
Prerequisite: MKTG 500.
Analysis of problems and opportunities in international marketing operations. Consideration of entry strategies, competitive strategies, domestication, and nationalization problems. Use of marketing information systems to evaluate opportunities and threats in foreign markets.
Letter grade only (A-F).

668. Seminar in Consumer Behavior (3)
Prerequisite: MKTG 500.
Topics in the behavioral sciences as they apply to marketing. Application of psychological, sociological, anthropological, and economic theories and models to the understanding of buyer behavior and the development of marketing strategy.
Letter grade only (A-F).

669. Seminar in Strategic Planning (3)
Prerequisite: MKTG 661.
The role and use of marketing research and information systems as the basis for development and implementation of marketing strategy. Case studies and/or class projects required.
Letter grade only (A-F).

695. Selected Topics (3)
Prerequisites: MBA standing, consent of instructor.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

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CHEMICAL ENGINEERING
College of Engineering

Department Chair: Larry K. Jiang
Department Office: EN2 101
Telephone: (562) 985-4906
Website: http://www.csulb.edu/coe/che
Faculty: Larry K. Jiang, Hamid Kovationi
Undergraduate Advisor: Larry K. Jiang
Graduate Advisor: Larry K. Jiang
Environmental Technology Advisor: Larry K. Jiang
General Education Advising: Academic Advising - Hom Center

Career Possibilities
Chemical Engineer • Automatic Control Engineer • Chemical Process/Design Engineer • Chemical Research Engineer • Chemical Test Engineer • Biochemical Engineer • Chemical Equipment Sales Engineer • Chemical Plant Manager • Technical Writer • Quality Control Specialist • Process Engineer • Consultant • Purchasing Agent • Safety Engineer • Environmental Engineer • Consultant (Some of these, and other careers, require additional education or experience.
For more information, see www.careers.csulb.edu.)

Introduction
Chemical engineers apply their knowledge of chemistry and engineering to make useful products that improve the quality of our lives. Industries employing our graduates include fuels, chemicals, polymers, microelectronics, biotechnology, environmental, aerospace, food, consumer products, design and construction. The chemical engineering curriculum provides a thorough background in chemical and physical science, mathematics, and engineering for application to the solution of technical problems encountered in the development, operation, design, and support of a diverse variety of industries.

Educational Mission and Objectives
The Chemical Engineering Department at California State University, Long Beach is a practice-oriented program that aims to develop well-trained professionals who will be successful in their careers and prepared for further advanced studies.

In order to achieve this, the program strives to:
• Provide students the technical foundations to become competent, practicing chemical engineers. Students learn to apply their knowledge of scientific principles to problem identification and solution, to conduct and analyze experimental work, and to design processes and systems to meet specified objectives using modern tools and technologies.
• Prepare students to be successful in their future workplace relationships. Students develop effective communication skills, gain abilities to function productively in teams, and obtain the foundation to support lifelong learning to promote personal and professional growth.
• Instill in students an understanding of their professional and ethical responsibilities and create awareness of the societal impact that their professional activities may have.
• Continuously improve the academic program in partnership with industry, alumni, and government.

Chemical Engineering Advisory and Development Council
The Department of Chemical Engineering Advisory and Development Council, consisting of outstanding engineers and executives from industry and government in Southern California, provides guidance to our program. Its mission is to advise and assist in developing the Department and to support its efforts to serve students, the community, and industry. This liaison between the University and industry ensures that industry concerns are addressed in our curricula and provides career guidance for our graduates.

ABET Accreditation
The Bachelor of Science in Chemical Engineering is accredited by the EAC (Engineering Accreditation Commission) of ABET (Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202, website: www.abet.org). Students enrolling in our program must see an undergraduate advisor as early as possible to ensure conformity with ABET requirements.

Other Related Programs
Students interested in obtaining a Minor in Environmental Engineering should refer to the College of Engineering section of this Catalog. Students who take required Chemistry courses are most likely eligible for Minor in Chemistry degree. See the College of Natural Science and Mathematics section of this Catalog.

Students wishing to pursue advanced study may be interested in the College of Engineering’s Master of Science in Engineering (MSE) degree. Graduate study leading to the MSE can be tailored to the goals of a student with a background in chemical engineering by taking advanced course work in the interfacing areas of chemistry, civil engineering (environmental area), electrical engineering (control area), computer engineering (microelectronic device area), mechanical engineering (thermal, fluids, and materials areas) and mathematics in addition to chemical engineering. Thesis work may be supervised by chemical engineering faculty. Detailed requirements for the MSE are specified in the College of Engineering section of this Catalog.

Grade Requirements
In addition to other University requirements, all students must obtain a grade of "C" or better in each prerequisite for any chemical engineering course. Also, required Written English (GE A1), Speech (GE A2), and Interdisciplinary (IC) courses must be taken for a letter grade, not Credit/No Credit.

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Undergraduate Programs

Bachelor of Science in Chemical Engineering (code CHE_BS01) (131 units)

Requirements

Minimum of 131 units required.

Lower Division: CH E 200, 210, 220; CHEM 111A, 111B; one course from CHEM 251, M ICR 200, C E 205; E E 211; ENGR 101,102 and CH E 100; MATH 122, 123, 224; PHYS 151; PHYS 152 (or EE 210 and 210L)

Upper Division: CH E 320, 330, 410, 420, 430, 440, 450, 460, 470; CHEM 320A, B or CHEM approved laboratory science (4 units minimum); CHEM 377B; MATH 370A; six units from CH E 300, 415, 437, 445, 455, 465, 475, 480, 485, 490; an ECON course or C E 406; three units of approved engineering elective. All students must show evidence of having attempted FE exam prior to graduation. Those who pass the FE exam can waive 3 units of engineering elective.

Bachelor of Science in Engineering Technology, Option in Environmental Technology (code ET_BS06)

For requirements, see the description in the Engineering Technology Programs section of this Catalog.

Minor in Environmental Engineering (code COE_U M01)

For requirements, see the description in the College of Engineering section of this Catalog.

Safety Operations Certificate (code ET_CT02)

Advisor - Hamid Kaviani (Chemical Engineering)
Department Office - EN 2 101
Telephone - (562) 985-2269

This certificate is designed to prepare students for safety positions that require a strong background in the technology of safe industrial environments. Examples of this kind of position are manufacturer’s safety representative, manufacturing facilities safety analyst, traffic safety analyst, and representative of California or Federal agencies involving public safety. This interdisciplinary program provides the student with a depth of technical training in safety, and related technical courses, including the expertise in human resources management necessary to effectively supervise safety programs.

Requirements

1. May be earned concurrently with or subsequent to the baccalaureate degree.
2. Open to all majors who have fulfilled the required prerequisites as stated below.
3. Requires a total of 24 units as specified below:
   A. Completion of supporting technical courses chosen in consultation with an advisor.
   B. 24 units are required from the following courses: ET 307, 309, 311, 319, 329, 329L, 400, 400L, 404, 410, 420, 449, 449L
4. Any deviation from this program requires the written permission of the program advisor.

LOWER DIVISION

100. Introduction to Chemical Engineering (1)
Chemical engineering as a profession. Nature of profession and career opportunities. Emerging frontiers of chemical engineering. (Lecture 1 hour) Letter grade only (A-F).

200. Chemical Engineering Fundamentals (3) F
Prerequisites: CHEM 111A, MATH 123, PHYS 151.
Dimensional analysis of units, steady and transient balances of mass, momentum and energy, the mathematical solution of chemical engineering problems. (Lecture-problems 3 hrs) Letter grade only (A-F).

210. Computer Methods in Chemical Engineering (3) F
Prerequisites: CHEM 111A, MATH 122, PHYS 151.
Beginning programming and techniques of numerical analysis applied to typical problems in chemical engineering. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

220. Chemical Engineering Thermodynamics I (3) S
Prerequisite: CH E 200.
Applications of the first and second laws of thermodynamics to chemical processes. Concepts of heat, work, and energy. Energy balances in both and flow processes, with and without chemical reaction. Gas behavior, phase change, vapor pressure, humidity. (Lecture problems 3 hours) Letter grade only (A-F).

UPPER DIVISION

350. The Chemical Industry (3)
Prerequisite: CH E 200.
Survey of industrial chemical processing techniques and the activities of engineers in this area, illustrated by field trips, speakers, professional society meetings, films, readings, etc. (Lecture 3 hours) Letter grade only (A-F).

320. Fluids (3) S
Prerequisites: CH E 200, C E 205.
Study of the deformation and flow of fluids, both liquids and gases, with applications to chemical engineering. (Lecture-problems 3 hours) Letter grade only (A-F).

330. Separation Processes (4) F
Prerequisites: CH E 210, 220.
Computation methods for predicting the separation of materials by distillation, absorption, extraction and other methods. (Lecture-problems 3 hours, lab 3 hrs) Letter grade only (A-F).

400/500. Chemical Processes (3)
Prerequisite: CH E 200 or 300, or consent of instructor.
In depth study of chemical and chemical manufacturing processes and related environmental problems and energy conservation issues. Graduate students have additional assignments. (Lecture-problem 3 hours) Letter grade only (A-F).

410. Chemical Engineering Thermodynamics II (3) F
Prerequisites: CH E 210, 220.
Analysis and design of process equipment and systems using thermodynamics. Turbines, compressors, power plants, refrigeration cycles. Phase equilibria and nonideal solution behavior. Chemical reaction equilibria and heat effects. (Lecture-problems 3 hours) Letter grade only (A-F).
415/515. Occupational and Environmental Safety Engineering and Management (3)
Prerequisite: CHEM 327 or consent of instructor.
Safety analysis and management, legislation, regulations and standards; toxicology and personal protective equipment; fire hazards; noise control, electrical safety; container and spill management; statistical analysis. Extra requirements for graduate students.
(Lecture-problems 3 hours) Letter grade only (A-F).

420. Heat and Mass Transport (3) F
Prerequisite: CHE 210, 329, CHEM 377B.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

430. Chemical Reactor Kinetics (3) F
Prerequisite: CHEM 378.
Homogeneous and heterogeneous reactions and application to reactor design, catalysis.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

437/537. Materials Purification Processes (3)
Prerequisite: CHE 330, 420, or consent of instructor.
Rate-controlled separation processes such as membrane separations, pressure swing adsorption, molecular sieve separation, supercritical fluid extraction, reverse osmosis, and spray drying.
Additional projects required for CHE 537. (Lecture-problems 3 hours) Letter grade only (A-F).

440. Chemical Engineering Laboratory I (2) F
Prerequisites: CHE 220, 320, 330.
Laboratory study of fluid mechanics, separation processes and thermodynamics. Experimental design and analysis and preparation of engineering reports.
(Laboratory 6 hours) Letter grade only (A-F).

445/545. Pollution Prevention (3)
Prerequisite: CHE 330.
(Lecture-problems 3 hours) Letter grade only (A-F).

450. Chemical Engineering Laboratory II (2) S
Prerequisites: CHE 410, 420, 430, 440; Prerequisite or Corequisite: CHE 460.
Laboratory study of heat and mass transport, chemical kinetics and control theory. Experimental design and analysis and preparation of engineering reports.
(Laboratory 6 hours) Letter grade only (A-F).

455/555. Environmental Compliance (3)
Prerequisite: CHEM 327 or consent of instructor.
Physical and chemical properties of hazardous materials and wastes. Environmental hazards. An examination of environmental laws, regulations and standards dealing with storage, transportation, treatment and disposal of hazardous wastes. Emergency planning and preparedness. Extra requirement for graduate students: term papers or projects.
(Lecture-problems 3 hours) Letter grade only (A-F).

460. Chemical Process Control (3) S
Prerequisites: CHE 420; MATH 370 A.
Control theory and practice, instrumentation, system responses, transfer functions, feed back control, and stability as applied to chemical engineering processes.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

465/565. Biochemical Engineering (3)
Prerequisite: CHE 200, 330, 430, and life science course(s) with instructor’s approval.
Extra requirements for graduate students. (Lecture-problems 3 hrs.) Letter grade only (A-F).

470. Chemical Engineering Design (4) S
Prerequisites: CHE 220, 330, 420, 430; CHEM 320A.
Design based upon economics and chemical engineering design and analysis.
(Lecture-problems 3 hours, problem design session 3 hrs.) Letter grade only (A-F).

475/575. Environmental Pollution (3)
Prerequisites: CHEM 320A or 327, or consent of instructor.
Application of chemistry to the problems of pollution. Graduate students have additional assignments.
(Lecture-problems 3 hours) Letter grade only (A-F).

480/580. Theoretical Methods in Chemical Engineering (3)
Prerequisites: CHE 420, 430.
Simulation and optimization of chemical engineering processes by mathematical formulation and computer modeling.
Extra requirements for graduate students: term papers or projects. (Lecture-problems 3 hours) Letter grade only (A-F).

481/581. Advanced Theoretical Methods in Chemical Engineering (3)
Prerequisites: MATH 370 A, CHE 480, or 580, or consent of instructor.
Solutions of problems encountered in models of chemical processes: boundary value ordinary differential equations and partial differential equations.
Graduate students have additional assignments. (Lecture problem 3 hours) Letter grade only (A-F).

485/585. Air Pollution (3)
Prerequisite: CHE 475 or CE 304 or consent of instructor.
Air pollution chemistry; control strategies; origin of pollutants; meteorology; vapor dispersion models; control principles for particulates, sulfur dioxide, and nitrogen oxides.
Extra requirements for graduate students: term papers or projects. (Lecture-problems 3 hrs) Letter grade only (A-F).

490. Special Problems (1-3)
Prerequisite: Consent of instructor.
Assigned topics in technical literature or laboratory projects and reports on same.
Letter grade only (A-F).

GRADUATE LEVEL

560/660. Chemical Processes (3)
Prerequisite: CHE 200 or 300, or consent of instructor.
In depth study of chemicals and chemical manufacturing processes and related environmental problems and energy conservation issues.
Graduate students have additional assignments. (Lecture problem 3 hours), Letter grade only (A-F).
515.415. Occupational and Environmental Safety Engineering and Management (3)
Prerequisite: CHEM 327 or consent of instructor.
Safety engineering and management, legislation, regulations and standards, toxicology and personal protective equipment, fire hazards; noise control; electrical safety; system safety analysis; container and spill management; use of computer systems and statistical methods.
Extra requirements for graduate students: term papers or projects. (Lecture-problems 3 hours) Letter grade only (A-F).
520. Advanced Transport Phenomena (3)
Prerequisites: CH E 520, 420, 430.
Application of differential and integral mass, momentum and energy balances to chemical engineering processes. Analysis of fluid flow, heat transfer, diffusion and chemical reaction in various unit operations. (Lecture- Problems 3 hours) Letter grade only (A-F).
521. Advanced Mass Transfer Operations of Chemical Engineering (3)
Prerequisite: CH E 520 or consent of instructor.
Fundamental laws of diffusion and diffusion with chemical reaction in traditional and unconventional mass transfer operations. (Lecture-problem 3 hours). Letter grade only (A-F).
530. Advanced Reactor Kinetics (3)
Prerequisite: CH E 430.
Modeling of chemical reactors; effects of multiple phases, mixing, adsorption, diffusion and catalysts on reactor performance. (Lecture- Problems 3 hrs) Letter grade only (A-F).
537.437. Materials Purification Processes (3)
Prerequisites: CH E 530, 420, or consent of instructor.
Rate-controlled separation processes such as membrane separations, pressure swing adsorption, molecular sieve separation, supercritical fluid extraction, reverse osmosis, and spray drying. (Lecture-problems 3 hours) Letter grade only (A-F).
545.445. Pollution Prevention (3)
Prerequisite: CH E 520.
555.455. Environmental Compliance (3)
Prerequisite: CHEM 327 or consent of instructor.
560. Advanced Chemical Process Control (3)
Prerequisite: one of the following: CH E 410, E E 3700, 411, 470, 471, 511, MAE 375, E T 492, or consent of instructor.
Principles and practices of controller selection and tuning, advanced control loops, model predictive control, decoupling, hands-on experience of control loop design and implementation using Labview. (Lecture- Problems 3 hours) Letter grade only (A-F).
565.465. Biochemical Engineering (3)
Prerequisites: CH E 200, 330, 430, and life science course(s) with instructor’s approval.
575.475. Environmental Pollution (3)
Prerequisite: CHEM 320 or 327, or consent of instructor.
Application of chemistry to the problems of pollution. Graduate students have additional assignments. (Lecture-problems 3 hours). Letter grade only (A-F).
580.480. Theoretical Methods in Chemical Engineering (3)
Prerequisites: CH E 420, 430.
Simulation and optimization of chemical engineering processes by mathematical formulation and computer modeling. (Lecture-problems 3 hours) Letter grade only (A-F).
581.481. Advanced Theoretical Methods in Chemical Engineering (3)
Prerequisites: Math 370A, CH E 450, or 560, or consent of instructor.
Solutions of problems encountered in models of chemical processes: boundary value ordinary differential equations and partial differential equations. Graduate students have additional assignments. (Lecture-problem 3 hours). Letter grade only (A-F).
585.485. Air Pollution (3)
Prerequisite: CH E 475 or CE 364 or consent of instructor.
Air pollution chemistry: control strategies; origin of pollutants; meteorology; vapor dispersion models; control principles for particulates, sulfur dioxide, and nitrogen oxides. (Lecture-problems 3 hours) Letter grade only (A-F).
697. Directed Research (1-3)
Prerequisite: Graduate standing.
Individual research or intensive study under the guidance of a faculty member on theoretical or experimental problems in chemical engineering. (Independent Study) Letter grade only (A-F).
698. Thesis or Industrial Project (2-6)
Prerequisite: Advancement to Candidacy.
Preparation and completion of a thesis or Industrial project in chemical engineering. May be repeated to a maximum of 6 units.
CHEMISTRY AND BIOCHEMISTRY
College of Natural Sciences and Mathematics

Department Chair: Jeffrey A. Cohlbarg
Department Office: Molecular and Life Sciences (MLSC) 304
Telephone/FAX: (562) 882-4594/M(562) 882-8567
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Faculty

Administrative Support Coordinator: George Sexton

Advisors:
Undergraduate: Roger A. Acey
Counselor: Laura Henriques, James Kiesel
Graduate: Biochemistry: Douglas D. McAbee, Chemistry: Lijuan Li
Graduate Studies Committee: Dennis M. Anjo, Jeffrey A. Cohlbarg, Lijuan Li, Douglas D. McAbee, Brian L. McClain, Young Shon

Honors in the Major: Roger A. Acey

Students desiring information should contact the department office for referral to one of the faculty advisors.

Career Possibilities
Chemist, Assayer • Water Purification Chemist • Chemical Lab Technician • Biochemist • Quality Control Coordinator • Pharmaceutical or Technical Sales Representative • Public Health Educator • Industrial Hygienist • Health Administrator • Teacher • Food/Drug Inspector • Materials Scientist • Medical Librarian • Environmental Scientist • Criminologist • Pharmacologist • Dentist • Physician • Geochemist • Chemical Oceanographer (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Department of Chemistry and Biochemistry offers three bachelor's degrees, the B.S. in Chemistry, the B.S. in Biochemistry, and the B.A. in Chemistry, and two master's degrees, the M.S. in Chemistry and the M.S. in Biochemistry. These programs combined serve over 600 majors. In addition, the Department offers a Minor in Chemistry. The Chemistry and Biochemistry Department Advisory Council, including persons prominent in the community, fosters communication between academic and industrial chemistry. It advises the Department concerning the instructional program and informs the Department of opportunities for interaction with the community.

Degree Programs
The program in chemistry at the bachelor's degree level is planned to develop background in a specific science, to serve as preparation for graduate work in chemistry or biochemistry, and to provide a foundation for those students seeking careers in the physical sciences, teaching, law, medicine, dentistry, pharmacy and other health-related professions, and in industrial and governmental scientific occupations. The B.S. degree in Chemistry is certified by the American Chemical Society (American Chemical Society, Committee on Professional Training, 1156 Sixteenth St., NW, Washington, DC 20036, phone: 202-872-4589).

Transfer Students: A student who transfers to the University must take at least 16 units of upper division chemistry courses here. To receive credit towards the major for courses taken elsewhere in place of CHEM 320A,B and/or 371A,B and/or 377A,B, consent of the Department Chair is required. Satisfactory performance on appropriate proficiency examinations may also be required.

The Department of Chemistry and Biochemistry offers graduate study leading to research-based master of science degrees in chemistry and biochemistry. The candidate is urged to observe the general requirements slated in this Catalog as well as specific departmental requirements stated here and, more fully, in the Graduate Studies Brochure of the Department which is available upon request.

Applicants for the master of science degree programs should apply online both to the university and to the Department. Links to the online application forms can be found on the department's web site (http://chemistry.csulb.edu – click on "Graduate Programs").

A limited number of teaching associate and graduate and research assistantships are available. Usually, these involve half-time work in the instructional program at the freshman and sophomore level or work in the laboratory. An applicant may apply for a teaching associate or graduate assistant position in the course of completing the online departmental application.

Students Desiring Entrance into a Health Professions Program
Students desiring entrance into one of the various health-related professional schools including chiropractic, dentistry, medicine, optometry, osteopathy, pharmacy, podiatry, and veterinary, or to a graduate program in physical therapy, should consult with the Health Professions Advising Office in the College of Natural Sciences and Mathematics, Jensen Student Access to Sciences and Mathematics Center (F051-100) for more information. Most of these schools do not require students to major in any particular discipline and many do not even require a bachelor's degree; rather, they want students who have done well in their major and who also took the prerequisite courses required by that particular school.

Facilitated Enrollment Into Classes
All entering students who declare a major in a degree program offered by this Department must participate in the College of Natural Sciences and Mathmatics' Science Safari to Success (for first-time freshmen) or EONS (Enrollment and Orientation in the Natural Sciences and Mathematics for transfer students) Program. This program is held in June-July for those entering in the fall semester and in January for those entering in the spring semester. Department advisors will be available to provide an overview of the students' chosen baccalaureate degree program, to assist
with academic advisement, to provide information on the many career opportunities available, and to aid students in enrolling in classes. Contact the Jonson Student Access to Sciences and Mathematics Center (Faculty Office 5-109) or Department Office for additional information.

**Undergraduate Programs**

**Bachelor of Science in Chemistry**  
*(code CHEMB01) (123 units)*

The bachelor of science degree program is intended to provide a thorough background in chemistry for those planning to pursue careers as professional chemists or to do graduate study in chemistry or biochemistry. This program, when supplemented with study in other appropriate areas, can serve as preparation for admission to the health professional schools (medicine, dentistry, pharmacy, etc.). Each student should consult with a faculty advisor to plan his or her individual program. Students may also wish to contact the Health Professions Advising Office in the Jensen Student Access to Sciences and Mathematics Center (F05-109) for additional information and services.

Chemistry majors must achieve a grade of "C" or better in each course required for the major.

**Requirements**

Lower Division:  
- CHEM 111A, B, 251; PHYS 151, 152, 254, 255; MATH 122, 123, 224; BIOL 111, 111L, 212, 212L or 200 or 205 or 207.
- Upper Division:  
  - CHEM 320A, B, 331, 332, 371A, B, 373, 420, 431, 441A, 451; one course chosen from among CHEM 361, 456H or ENGL 317; and an additional 3 units of upper division chemistry electives including at least one unit of CHEM 496. CHE 330, 425, 430, or 475 may be used as chemistry electives.
  - Students are also advised to take one or more additional courses in mathematics, such as MATH 247, 364A, 370A, 380.

**Bachelor of Arts in Chemistry**  
*(code CHEMBA01) (120 units)*

The Bachelor of Arts degree program in chemistry is intended to provide a background in chemistry, but not in the depth required for a bachelor of science degree. This program, when supplemented with study in other areas, will serve as preparation for a career in chemical and related industries or secondary science education. The bachelor of arts program is also an appropriate preparation for medical, dental, law, and pharmacy schools. Students may also wish to contact the Health Professions Advising Office in the Jensen Student Access to Sciences and Mathematics Center (F05-109) for additional information and services. In order to take full advantage of the bachelor of arts program for various career objectives, adequate counseling by chemistry advisors is indispensable. Each student must confer with an advisor to set up his/her individually tailored program in chemistry and one or more complementary areas prior to beginning the course of study.

Chemistry majors must achieve a grade of "C" or better in each course required for the major.

**Requirements**

Lower Division:  
- CHEM 111A, B, 251; PHYS 100A, B or 151, 152; and MATH 122, 123.
- Upper Division:  
  - CHEM 320A, B, 331, 371A, B or 377A, B, 420, 451; one course chosen from among CHEM 361, 456H or ENGL 317; and a minimum of 3 additional units chosen in consultation with an advisor selected from CHEM 332, 373, 421, 431, 441A, B, 496. Students must consult an advisor to select additional courses to meet the student's individual goals and interests.

**Bachelor of Science in Biochemistry**  
*(code CHEMS02) (121 units)*

The Bachelor of Science degree in biochemistry is intended to provide a rigorous background in chemistry and biochemistry for those planning for graduate study in biochemistry or other life sciences, or for careers in biochemical and related industries. This program is also an appropriate preparation for medicine, dentistry, pharmacy, and clinical chemistry at the graduate level. Students must confer with an advisor to set up an appropriate program for their goals.

Biochemistry majors must achieve a grade of "C" or better in each course required for the major.

**Requirements**

Lower Division:  
- CHEM 111A, B, 251; BIOL 111, 111L, 212, 212L; MATH 122, 123; and PHYS 100A, B or 151, 152.
- Upper Division:  
  - CHEM 320A, B, 371A or 377A, 371B or 377B (371A, B is recommended as preparation for graduate studies in biochemistry) 420 or 451, 441A, B, 443, BIOL 340, BIOL 370 or MCHR 371 and 372; Three (3) additional units of elective chosen from: CHEM 331, 373, 420, 421, 431, 451; BIOL 342 and 342L, 445, 448, 470; MCHR 452, 473; and one course chosen from CHEM 361, 456H or ENGL 317.

**Teaching Credential**

Requirements Related to a Chemistry Concentration

The Chemistry Concentration meets the subject matter competence requirement for the Single Subject Preliminary Credential in Chemistry (code 181). Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Chemistry teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete many of the credential program courses, except for student teaching, as an undergraduate. Courses may also be started as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.csud.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.
The Chemistry Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

Lower Division: ASTR 100; BIOL 111, 111L, 212, 212L, 213, and 213L; CHEM 11A,B, 251; GEOL 102, 104, 150; PHYS 100A.B or 151,152; MATH 119A.B or 122, 123.

Upper Division: CHEM 320A,B, 441A, 451, 456, either 431 or 441B; SCED 403.

Honors in Biochemistry or Chemistry

Students majoring in the B.S. in Biochemistry, B.S. in Chemistry, or B.A. in Chemistry who would like an enriched academic program including an intensive research experience may be eligible to graduate with Honors in the Major through the University Honors Program. Students may complete General Honors through the University Honors Program as well; in such cases the General Honors thesis requirement is met through Honors in the Major (see University Honors in this Catalog).

Chemistry majors should be aware that this program is designed for students with career goals in life science areas, and, as such, chemistry majors who wish to participate must take additional coursework in biology beyond the minimum required for a chemistry degree.

The requirements for Honors in the Major will also satisfy the requirements of a college-wide program, Honors in Biological Sciences, created with the support of a grant from the Howard Hughes Medical Institute. While Honors in the Major require junior or senior standing, the college-wide program offers an enriched curriculum beginning in the freshman year, including a freshman seminar (BIOL 110H), a critical thinking course designed for science majors, and an introduction to bioinformatics (BIOL 220H). Interested students should contact the Honors in Biological Sciences program director or the Jensen Student Access to Sciences and Mathematics Center.

Requirements for Admission to Honors in the Major

1. Junior or senior standing with at least one year remaining before graduation.
2. Declared major of B.S. in Biochemistry, B.S. in Chemistry, or B.A. in Chemistry.
3. Submission of an application detailing interest in the program and willingness to commit to a year-long research experience.
4. Letter of recommendation from a CSULB faculty member familiar with the student's work.
5. Completion of BIOL 111, 111L, 212, 212L, 213, and 213L (or BIOL 211A,B); CHEM 251, 320A,B at time of entry with grades of at least "C" in each course. Students may apply during the semester in which they expect to complete these courses.
6. GPA of at least 3.00 in all upper division courses in the major.

Requirements for Graduation with Honors in the Major

1. GPA of at least 3.00 in all upper division courses in the major and in Honors courses.
2. Completion of all requirements for the B.S. in Biochemistry, B.S. in Chemistry, or B.A. in Chemistry.
3. Completion of BIOL/CHM 466H, Research Design and Methods - Honors (3 units).
4. Completion of 3 units CHEM 498, Undergraduate Directed Research.
6. Presentation of research results in a public forum. This requirement may be met by presentation at a scientific conference or at a local venue; consult the Honors in the Major advisor for additional information.

Substitutions to this program must be approved by the Honors in the Major Advisor.

Minor in Chemistry (code CHEMUM01)

Requirements

The Minor in Chemistry is available to any non-Chemistry or non-Biochemistry major.

A minimum of 20 units of chemistry which must include CHEM 111A,B. A minimum of nine units must be taken from upper division chemistry courses. There are three Organic Chemistry paths, CHEM 327; or CHEM 320A,B; or CHEM 322A,B and CHEM 323A,B. Students may use courses from only one of the paths to meet the requirements of the minor.

The following courses are not acceptable towards the minor: CHEM 100, 101, 102, 140, 202.

Concurrent and/or Summer Enrollment in Another College

Students who wish to take course work in a community or other college to meet curricular requirements while enrolled as undergraduates in the College of Natural Sciences and Mathematics must petition the appropriate department for approval prior to enroll in specific courses. This policy applies to concurrent enrollment or summer enrollment. University policy must also be complied with. See "Concurrent Enrollment" and "Transfer of Undergraduate Credit" in this Catalog. Courses not receiving prior approval will not be accepted for credit by the Department.

Graduate Credit Earned as an Undergraduate Chemistry or Biochemistry Major

Graduate credit usually may not be earned in advance of the baccalaureate degree. However, based upon the recommendation of the Department Chairperson and the Chairman of the Departmental Graduate Studies Committee, academic performance (a grade point average of 3.00 overall and 3.00 in the major), and promise of academic achievement in postgraduate study, a student in his/her senior year may be granted approval to earn a maximum of 12 units of course work in the 400 and 500 level taken at this University toward his/her prospective graduate program, subject to the following conditions:

1. The course work must be in addition to that required by the Department for the B.A. or B.S. degree in Chemistry or the B.S. degree in Biochemistry.
2. The undergraduate student must have a "Petition to Earn Credit in the Senior Year" approved by the appropriate Department Graduate Advisor, the Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics, and the Dean of Graduate Studies.

Graduate Programs

Master of Science in Chemistry
(code CHEMMS01)

Prerequisites
1. Acceptance as a graduate student by the Department of Chemistry and Biochemistry;
2. A bachelor's degree with a major in chemistry, or a bachelor's degree with undergraduate preparation in chemistry, physics, and mathematics equivalent to that required for the bachelor's degree in chemistry at this University. A student deficient in any of these courses must complete the course(s) as a graduate student. The courses that must be taken to make up these deficiencies will be determined by the Graduate Adviser in consultation with the Graduate Studies Committee. Students with majors in other areas may be considered for admission at the discretion of the Graduate Adviser.
3. Entering graduate students are required to take placement examinations as follows:
   - at the beginning of the first semester of the M.S. program; one placement examination chosen by the student in analytical, inorganic, organic, physical or biochemistry;
   - at the beginning of the second semester of the M.S. program; one placement examination recommended by the Thesis Committee.
Under some circumstances students may take both placement examinations at the beginning of the first semester, with the approval of the Graduate Adviser. Any student failing to take and pass a placement examination is required to pass, with a minimum grade of B, an appropriate course as recommended by the Graduate Studies Committee. Usually the recommended courses are:
- CHEM 251 and/or 451 if the subject is analytical chemistry;
- CHEM 431 if the subject is inorganic chemistry;
- CHEM 321A and/or CHEM 321B if the subject is organic chemistry;
- CHEM 371A and/or 371B if the subject is physical chemistry;
- CHEM 441A and/or 441B if the subject is biochemistry.
4. The placement examinations are usually given on the Monday and Tuesday of the week preceding the first day of instruction. The Graduate Studies Committee evaluates the examinations and recommends appropriate courses to correct any deficiencies in chemistry. The Chemistry Graduate Adviser will meet with the student at this time to prepare a tentative degree program.
5. Entering students are required to select a research advisor within eight weeks following the first day of instruction. At this time the student and the advisor will select two additional faculty members to serve on the Thesis Committee. The Thesis Committee will meet before the end of the eleventh week of the semester and will plan a course of study for the student consistent with the area of thesis research, in consultation with the Graduate Adviser. The research advisor and/or the Thesis Committee will determine which additional placement examination the student will take at the beginning of the second semester.
6. Each student shall prepare a thesis proposal in collaboration with the research advisor, stating the specific topic of the research and its significance, the specific objectives of the research, and the methods to be used.

Advancement to Candidacy

The regulations governing each student's master's degree are those in effect at the time of the student's advancement to candidacy. The Department recommends advancement to candidacy after the graduate student has:
1. Either passed all the required placement examinations including those recommended by the Thesis Committee or achieved a grade of B or better in each course recommended by the Graduate Studies Committee for correcting the deficiencies;
2. Completed at least 6 units of courses on the proposed Graduate Program;
3. While in residence as a graduate student at this University, earned at least a 3.0 ("B") average in all upper division and graduate work, a 3.0 average in all CHEM courses, and a 3.0 average in all courses on the graduate program.
4. Fulfilled the Graduation Writing Assessment Requirement (GWAR);
5. Obtained approval of a graduate degree program by the Thesis Committee, the Graduate Adviser, the Department Chair (in consultation with the Graduate Studies Committee), and the Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics.

The criteria above should be met by the beginning of the third semester of graduate study. Deficient students may continue at the discretion of the Department Graduate Studies Committee.

Requirements

1. Advancement to candidacy;
2. The completion of a minimum of 30 units including:
   A. A minimum of nine units in chemistry lecture courses in the 500 series (excluding CHEM 595);
   B. Three units of CHEM 595;
   C. Two units of CHEM 660, a maximum of one unit of CHEM 695, 4 to 6 units of CHEM 697, and 4 to 6 units of CHEM 698;
   D. Additional 400 and 500 level courses (excluding CHEM 505 and courses taken to remove deficiencies) as recommended by the Thesis Committee and approved by the Graduate Advisor.

Changes in the above pattern of course requirements may be made only at the discretion of the Graduate Studies Committee and the Graduate Adviser subject to approval.
by the Associate Dean for Graduate Accountability.

3. Completion of a written thesis, of publication quality, acceptable to the members of the thesis committee and a public presentation of the thesis research. The public presentation must be completed before the thesis is signed by the committee members.


5. While not a requirement for the degree, students in the MS program normally gain experience teaching laboratory sections of Chemistry courses, as preparation for professionally related teaching activities in their future careers.

Master of Science in Biochemistry
(code CHEMMS02)

Prerequisites

1. Acceptance as a graduate student by the Department of Chemistry and Biochemistry;

2. A bachelor's degree with a major in chemistry or biochemistry or one of the biological sciences. Students with majors in other areas may be considered for admission at the discretion of the Graduate Adviser. Prerequisite courses include CHEM 251, 320A, B or 322A, B, 377A, B, 441A, B, 443; MATH 122, 123, PHYS 100A, B or their equivalents and courses in general biology and molecular biology. A student deficient in any of these courses must complete the course(s) as a graduate student.

3. Entering graduate students are required to take a placement examination in biochemistry at the beginning of the first semester of the MS program. A second placement examination in either organic chemistry or physical chemistry must be taken by the beginning of the second semester. Any student failing to take and pass a placement examination, is required to pass, with a minimum grade of "B", an appropriate course as recommended by the Graduate Studies Committee. Usually the recommended courses are:

CHEM 320A and/or CHEM 320B if the subject is organic chemistry;
CHEM 371A or 377A and/or 371B or 377B if the subject is in physical chemistry;
CHEM 441A and/or 441B if the subject is biochemistry.

Under some circumstances students may take both placement examinations at the beginning of the first semester, with the approval of the Graduate Adviser.

4. The placement examinations are usually given on the Monday and Tuesday of the week preceding the first day of instruction. The Graduate Studies Committee evaluates the examinations and recommends appropriate courses to correct any deficiencies in chemistry. The Biochemistry Graduate Adviser will meet with the student at this time to prepare a tentative degree program.

5. Entering students are required to select a research advisor within eight weeks following the first day of instruction. At this time the student and the advisor will select two additional faculty members to serve on the Thesis Committee. The Thesis Committee will meet before the end of the eleventh week of the semester and will plan a course of study for the student consistent with the area of thesis research, in consultation with the Graduate Adviser. The research advisor and/or the Thesis Committee will require the student to take the second placement examinations (in organic or physical chemistry) in addition to the examination already taken. A student who fails this examination is required to enroll in an appropriate course as recommended by the Graduate Studies Committee, usually the recommended course listed in paragraph 3.

6. Each student shall prepare a thesis proposal in collaboration with the research advisor, stating the specific topic of the research and its significance, the specific objectives of the research, and the methods to be used. The student must obtain approval of the thesis proposal and must make a public presentation of the proposal by the end of the second semester in the MS program. Any major change in direction during the course of the research shall be subject to the approval of the Thesis Committee.

Advancement to Candidacy

The regulations governing each student's master's degree are those in effect at the time of the student's advancement to candidacy. The Department recommends advancement to candidacy after the graduate student has:

1. Either passed all the required placement examinations including those recommended by the Thesis Committee or achieved a grade of B or better in courses recommended by the Graduate Studies Committee for correcting the deficiencies;

2. Completed at least 6 units of courses on the proposed Graduate Program;

3. While in residence as a graduate student at this University, earned at least a 3.0 ("B") average in all upper division and graduate work, a 3.0 average in all CHEM courses, and a 3.0 average in all courses on the graduate program.

4. Submitted the Graduation Writing Assessment Requirement (GWAR);

5. Obtained approval of a graduate degree program by the Thesis Committee, the Graduate Adviser, the Department Chair (in consultation with the Graduate Studies Committee), and the Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics.

The criteria above should be met by the beginning of the third semester of graduate study. Deficient students may continue at the discretion of the Department Graduate Studies Committee.

Requirements

1. Advancement to candidacy;

2. The completion of a minimum of 30 units including:
   A. A minimum of nine units in chemistry lecture courses in the 500 series (excluding CHEM 595);
   B. Three units of CHEM 595;
   C. Two units of CHEM 660: a maximum of one unit of CHEM 660, 4 to 6 units of CHEM 697 and 4 to 6 units of CHEM 698.

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D. The following courses taken either prior to or during the course of this program: (1) CHEM 451 (or the equivalent); (2) at least one senior or graduate level course in cell/molecular biology or a related area. Credit earned in these courses may be included in the student's official program at the discretion of the Graduate Advisor.

E. Additional 400 and 500 level science courses (excluding CHEM 595 and courses used to remove deficiencies) as recommended by the Thesis Committee and approved by the Graduate Advisor.

Changes in the above pattern of course requirements may be made only at the discretion of the Graduate Studies Committee and the Graduate Advisor subject to approval by the Associate Dean for Graduate Accountability.

3. Completion of a written thesis, of publication quality, acceptable to the members of the Thesis Committee and a public presentation of the thesis research. The public presentation must be completed before the thesis is signed by the committee members.


5. While not a requirement for the degree, students in the MS program normally gain experience teaching laboratory sections of Chemistry courses, as preparation for professionally related teaching activities in their future careers.

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Courses (CHEM)

LOWER DIVISION

100. Chemistry and Today's World (4)
Prerequisites: One course from the Foundation (GE categories A1, A2, A3, and B2).
Introduction to basic principles of chemistry and a consideration of the benefits and problems arising from applications of chemistry. Discussions of foods and food additives, drugs, plastics, and other materials of everyday life, fuel sources, the atmosphere, and fresh water. Suitable for general education credit. Not open for credit to chemistry or biochemistry majors or students with credit in CHEM 111A or CHEM 140. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

101. Introduction to General Chemistry (4) F/S
Prerequisites: MATH 112 or 113 or 117 or 119A or 122.
This course is a prerequisite to CHEM 111A for students who have not achieved a satisfactory score on the Chemistry Placement Examination. Basic principles and concepts including atomic structure, nomenclature and chemical calculations with emphasis on problem solving. Does not count for General Education: Letter grade only (A-F). (Lecture 3 hrs., lab-problem session 3 hrs.) Course fee may be required.

105. Chemistry Explorations (1)
Prerequisites: A general education math class, which may be taken concurrently.
Central concepts of chemistry, including states of matter, atomic structure, periodic properties, chemical compounds and reaction energy, and equilibrium, illustrated with a set of experiments. Intended for students in the Integrated Teacher Education Program (ITEP). (Laboratory 3 hours). Course fee may be required.

111A. General Chemistry (5)
Prerequisites: A passing score on the Chemistry Placement Examination within the preceding year or a grade of "C" or better in CHEM 101, MATH 112 or 113 or 117 or 119A or 122. One year of high school chemistry is strongly recommended. (Recommended for students who intend to pursue careers in science or engineering.)
First semester of a two-semester sequence (CHEM 111A and 111B). Introduction to principles of chemistry including chemical reactions, stoichiometry, thermochromy. electronic structure, bonding, and properties of solids, liquids, gases, and solutions. (Lecture 3 hrs., laboratory and problem session 6 hrs.) Course fee may be required.

111B. General Chemistry (5)
Prerequisite: CHEM 111A with a grade of "C" or better.
Second semester of a two-semester sequence (CHEM 111A and 111B). Continuation of chemical principles, applications of bonding theories of inorganic molecules, trends and reactivities of elements and their compounds, chemical equilibrium, kinetics and qualitative inorganic analysis. Solving aqueous equilibrium problems are emphasized. (Lecture 3 hrs., lab and problem solving sessions 6 hrs.) Course fee may be required.

140. General, Organic, and Biochemistry (5)
Prerequisites: A GE math course (may be taken concurrently); high school chemistry or equivalent.
This one-semester course encompasses general chemistry, organic chemistry, and biochemistry. Meets chemistry requirement for pre-nursing curriculum. (Lecture 3 hrs., problem solving session 1 hr., and laboratory 3 hrs.) Course fee may be required.

251. Quantitative Analysis (4)
Prerequisite: CHEM 111B with a grade of "C" or better. It is strongly recommended that CHEM 251 be taken within one calendar year of CHEM 111B.
Introduction to techniques and theory of gravimetric and volumetric analysis, spectrophotometry, potentiometry, and chromatography. (Lecture 2 hrs., laboratory 6 hrs.) Course fee may be required.

UPPER DIVISION

302. Survey of Biochemistry (3) F/S
Prerequisites: A minimum of 3 units of university level general and organic chemistry with grade of "C" or better.
Study of the chemistry, structures, metabolic reactions and functions of the major classes of biochemical compounds. Does not meet the requirements of medical or dental schools. Does not count for General Education credit. (Lecture 2 hrs., discussion 1 hr.)

320A. Organic Chemistry (3)
Prerequisite: CHEM 111B with a grade of "C" or better. CHEM 251 is recommended.
First semester of two-semester sequence (CHEM 320A and 320B). Sequence meets requirements for medical and dental schools. Emphasis is upon application of modern principles of structure, reactivity, methods of synthesis, physical properties and spectroscopy. (Lecture 3 hrs., discussion 1 hr.)

320B. Organic Chemistry (3)
Prerequisite: CHEM 320A with a grade of "C" or better.
Second semester of two-semester sequence (CHEM 320A and 320B). Continuation of study of organic chemistry including chemistry of compounds containing more than one functional group, bioorganic molecules, and special topics. (Lecture 3 hrs., laboratory 6 hrs.) Course fee may be required.
320L. Organic Chemistry Laboratory (2) F,S
Prerequisites: Completion at an accredited institution of coursework equivalent to CHEM 320B, and consent of the Department. CHEM 320L is identical to the laboratory component of CHEM 320B. Not open to students with credit in CHEM 320B. Letter grade only (A-F). (Laboratory 6 hrs.) Course fee may be required.

322A. Organic Chemistry (3) F,S
Prerequisite: CHEM 111B with a grade of "C" or better. Concurrent enrollment in CHEM 322A required except for students who have previously earned a "C" or better in CHEM 322A.
First of a two-semester sequence (CHEM 322A,B) for biological sciences majors. Sequence meets requirements for medical and dental schools. Emphasizes concepts of organic chemistry necessary to understand structures and transformations of biomolecules. Not applicable to a degree in chemistry.
Letter grade only (A-F). (Lecture 3 hrs.)

322B. Organic Chemistry Laboratory (3) F,S
Prerequisite: CHEM 322A and CHEM 322A, both with a grade of "C" or better. Concurrent enrollment in CHEM 322B is required except for students who have previously earned a "C" or better in CHEM 322B.
Second semester of two-semester sequence (CHEM 322A and 322B) for biological sciences majors. Continuation of the study of organic reactions with emphasis on the chemistry of metabolism. Not applicable to a degree in chemistry.
Letter grade only (A-F). (Laboratory 3 hrs.)

323A. Organic Chemistry Laboratory (1) F,S
Prerequisite: CHEM 111B with a grade of "C" or better. Concurrent enrollment in CHEM 323A required except for students who have previously earned a "C" or better in CHEM 323A.
Introduction to organic laboratory techniques. Not applicable to a degree in chemistry.
Letter grade only (A-F). (Laboratory 3 hrs.)

323B. Organic Chemistry Laboratory (1) F,S
Prerequisite: CHEM 323A and CHEM 323A, both with a grade of "C" or better. Concurrent enrollment in CHEM 323B is required except for students who have previously earned a "C" or better in CHEM 323B.
Synthesis and characterization of organic and bioorganic compounds. Not applicable to a degree in chemistry.
Letter grade only (A-F). (Laboratory 3 hrs.)

327. Fundamentals of Organic Chemistry (3) F,S
Prerequisite: CHEM 111A with a grade of "C" or better; CHEM 111B is recommended.
Lecture courses in chemistry of the carbon compounds. Not applicable to a degree in chemistry. (Lecture 3 hrs.)

331. Inorganic Chemistry (3)
Prerequisites: CHEM 111B, 251.
Introduction to coordination chemistry, solid-state chemistry, and reactions of transition metals.
Letter grade only (A-F). (Lecture 3 hrs.)

332. Inorganic Chemistry Laboratory (2)
Prerequisite: CHEM 331 (may be taken concurrently).
Synthesis, characterization, and manipulation of inorganic compounds and materials.
Letter grade only (A-F). (Laboratory 3 hrs.)

361. Chemical Communications (3)
Prerequisites: Completion of General Education Foundation, concurrent or previous enrollment in CHEM 320A.
Using the chemical literature. Writing technical reports for various purposes. Oral presentation of chemical information. Course includes extensive writing.
Letter grade only (A-F). (Seminar 3 hrs.)

371A. Physical Chemistry: Thermodynamics and Kinetics (3) F
Prerequisites: CHEM 251, MATH 123, PHYS 152 (all with a grade of "C" or better), MATH 224 (may be taken concurrently).
Half of the two semester physical chemistry package. The two courses, CHEM 371A,B, may be taken in either order. Principles and applications of classical thermodynamics; introduction to chemical kinetics.
Letter grade only (A-F). (Lecture 3 hrs.)

371B. Physical Chemistry: Quantum Mechanics and Spectroscopy (3) S
Prerequisites: CHEM 251, MATH 123, PHYS 152 (all with a grade of "C" or better), and MATH 224 (may be taken concurrently).
Half of the two semester physical chemistry package. The two courses CHEM 371A,B may be taken in either order. Principles and applications of quantum chemistry, spectroscopy, and statistical thermodynamics.
Letter grade only (A-F). (Lecture 3 hrs.)

373. Physical Chemistry Laboratory (3) S
Prerequisites: CHEM 251, CHEM 371A,B or CHEM 377A,B all with a grade of "C" or better.
Introduction to basic physical-chemical experimental techniques with applications to principles discussed in CHEM 371A,B and CHEM 377A,B.
(Lecture 1 hr., laboratory 6 hrs.)

377A. Fundamentals of Physical Chemistry (3) F,S
Prerequisites: CHEM 251, MATH 122, PHYS 100B or 152 (all with a grade of "C" or better), and MATH 123 (may be taken concurrently).
Half of the two semester physical chemistry package with a biochemical emphasis. The two courses CHEM 377A,B may be taken in either order. Principles of physical chemistry emphasizing thermodynamics and chemical kinetics. Biological and environmental science examples used to illustrate principles.
Letter grade only (A-F). (Lecture 3 hrs.)

377B. Fundamentals of Physical Chemistry (3) F,S
Prerequisites: CHEM 251, MATH 122, PHYS 100B or 152 (all with a grade of "C" or better, MATH 123 (may be taken concurrently).
Half of the two semester physical chemistry package with a biochemical emphasis. The two courses CHEM 377A,B may be taken in either order. Principles of physical chemistry with emphasis on molecular structure and spectroscopy.
Letter grade only (A-F). (Lecture 3 hrs.)

420. Advanced Organic Chemistry Laboratory (3)
Prerequisites: CHEM 251 and CHEM 320B both with a grade of "C" or better.
Synthesis and characterization of organic compounds. Organic structures analyzed through interpretation of spectral data. Emphasis on use of high field NMR, mass spectrometry, IR, and UV. Applications of modern separation techniques.
In addition to regularly scheduled lectures, students are expected to attend three hours of lecture on use of chemical literature. Letter grade only (A-F). (Lecture 1 hr., laboratory 6 hrs.) Course fee may be required.

421/521. Physical Organic Chemistry (3) F
Prerequisites: CHEM 320B with a grade of "C" or better; CHEM 371B or 377B (may be taken concurrently). (Undergraduates enroll in CHEM 421; graduates enroll in CHEM 521.)
Theoretical interpretation of chemical and physical properties of organic compounds: mathematical derivations of rate equations from experimental results, quantitative comparison of organic compounds reactivity, mathematical correlations of structure and properties. Solving problems relating to reaction mechanisms to described factors.
(Lecture 3 hrs.)
431. Advanced Inorganic Chemistry (3) F
Prerequisites: CHEM 331, 371B, both with a grade of “C” or better.
Quantitative study of chemical bonding in inorganic molecules
emphasizing on molecular orbital theory. Transition metal chemistry
including coordination chemistry, ligand field theory, spectroscopy
applications to structural analysis of inorganic molecules, and review
of properties and reactivities of elements and their compounds.
Letter grade only (A-F). (Lecture 3 hrs.)

441A. Biological Chemistry (3)
Prerequisite. Either CHEM 320A or both CHEM 322A and 322B
with a grade of “C” or better; a biology or microbiology course is
recommended.
Find semester of a two-semester sequence (CHEM 441A and 441B)
in biochemistry. Chemical and mathematical treatment of energetics
and kinetics of reactions in living systems, including chemistry and
metabolism of carbohydrates and chemistry of proteins.
Letter grade only (A-F). (Lecture 3 hrs.)

441B. Biological Chemistry (3)
Prerequisite: CHEM 441A with a grade of “C” or better.
Second semester of two-semester sequence (CHEM 441A and 441B)
in biochemistry. Metabolism of lipids, proteins, and nucleic acids, and
other advanced topics in metabolism.
Letter grade only (A-F). (Lecture 3 hrs.)

443. Biological Chemistry Laboratory (4)
Prerequisites: CHEM 251 and 441B, both with a grade of “C” or better.
Theory and practice of laboratory techniques used in biochemical
research. (Lecture 1 hr., laboratory 9 hrs.) Course fee may be required.

448. Fundamentals of Biological Chemistry (3)
Prerequisites: CHEM 111A and 327, both with a grade of “C” or better.
Major principles of biochemistry including metabolic processes,
biochemical control and regulatory processes, nutrition and chemical
energetics and kinetics of reactions involving enzyme catalysis.
Emphasis on major concepts and problem solving.
Not open to chemistry majors. Not open for credit to students with
credit in CHEM 441A,B.
Letter grade only (A-F). (Lecture 3 hrs.)

449. Nutritional Biochemistry Laboratory (3)
Prerequisite: CHEM 448 with a grade of “C” or better.
Analytical and biochemical analysis of foods and other
compounds of biochemical interest.
(Lecture 1 hr., laboratory 6 hrs.) Course fee may be required.

451. Instrumental Methods of Analysis (4)
Prerequisites: CHEM 251, CHEM 371B or 377B, all with a grade of
“C” or better, or consent of instructor.
Theory and application of instrumental methods to chemical problems.
Includes measurement basics, atomic and molecular spectroscopy,
electroanalytical chemistry, separation methods, surface analysis, and
statistical evaluation of analytical data.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 6 hrs.) Course fee
may be required.

466H. Research Design and Methods – Honors (3) S
Prerequisites: BIOL 111, 111L, 212, 212L, 213, 213L, either BIOL 260
or CHEM 251, CHEM 320A,B. or CHEM 322A,B and 322A,B, all
with a grade of “C” or better, completion of the GE Foundation,
and consent of instructor.
Introduction to hypothesis testing, experimental design, and
regression modeling of biochemical data. Methodological and technical
procedures for experimentation, and techniques for written and
oral presentation of research results. Research paper and oral
presentation required.
Same course as BIOL 466H. Not open for credit to students with
credit in BIOL 466H. Letter grade only (A-F). (Lecture 3 hrs.)

480/580. Biomolecular Modelling and Simulation (3)
Prerequisites: CHEM 320A or CHEM 322A, MATH 123 (may be
taken concurrently), and PHYS 100B or 152, all with a grade of “C”
or better.
The study of biomolecular phenomena using computer-based
modeling and simulation techniques with varying degrees of
resolution, including development and validity of molecular models.
Latter grade only (A-F). (Lecture 3 hrs.)

495. Colloquium in Chemistry (1)
Prerequisite: One semester of organic chemistry.
Presentation of reports by students on original research or current
literature. May be repeated to a maximum of 3 units; only one unit may be
counted toward the major requirement for the chemistry degree. An
oral report is required.

496. Special Problems in Chemistry (1-3)
Prerequisite: Consent of instructor.
Problems selected for considered and mature analysis. A written
report required.
May be repeated to a maximum of 6 units (Independent Study).
Letter grade only (A-F).

498H. Senior Thesis – Honors (1-3)
Prerequisites: One unit of CHEM 496 and consent of instructor.
Planning, preparation, and completion of thesis based on a
research project in chemistry. Letter grade only (A-F). Not available to graduate students.

499. Directed Reading (1)
Survey of chemical literature on some topic of current interest
under supervision of a faculty member. Preparation of a written
report based on readings.
Not open for credit to graduate students.

GRADUATE LEVEL

521/421. Physical Organic Chemistry (3) F
Prerequisite: CHEM 320B with a grade of “C” or better; CHEM
371B or 377B (may be taken concurrently). Undergraduate enrollment
in CHEM 421; graduate enrollment in CHEM 521.
Theoretical interpretation of chemical and physical properties of
organic compounds. Mathematical derivations of rate equations
from experimental results. Quantitative comparison of organic
compounds reactivities and structural correlations. Solving problems regarding
to reaction mechanisms to described factors.
(Lecture 3 hrs.)

522. Special Topics in Organic Chemistry (3)
Prerequisite: CHEM 421 or 521 or consent of instructor.
Areas of current interest in organic chemistry.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F). (Lecture 3 hrs.)

531. Advances in Inorganic Chemistry (3)
Prerequisite: CHEM 431 or consent of instructor.
Current topics and advances in inorganic chemistry.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F). (Lecture 3 hrs.)

542. Special Topics in Biochemistry (3)
Prerequisite: CHEM 441B or consent of instructor.
Intensive discussion of a limited aspect of biochemistry with
reference to current literature. Course content will vary from year
to year.
May be repeated to a maximum of 6 units with consent of
Graduate Advisor. Letter grade only (A-F). (Lecture 3 hrs.)
544. Physical Biochemistry (3)
Prerequisites: Either CHEM 371B or 377B, or consent of instructor and CHEM 441B.
Physical chemical aspects of protein and nucleic acid chemistry and related analytical methods.
Lecture only (A-F). (Lecture 3 hrs.)

547. Biochemistry of Nucleic Acids (3)
Prerequisites: CHEM 441A, B or consent of instructor.
Gene expression with emphasis on regulatory mechanisms. Analytical techniques for isolation, purification, and characterization of nucleic acids.
Lecture only (A-F). (Lecture 3 hrs.)

548. Cell Membranes (3)
Prerequisites: CHEM 441A, BIOL 370, and BIOL 340.
Examination of modern membrane biochemistry. May include membrane structure and transport, phospholipid sorting, vesicular transport, membrane coat protein structure and function, and membrane-dopant signal transduction.
Lecture only (A-F). (Lecture 3 hrs.)

552. Special Topics in Analytical Chemistry (3)
Prerequisite: CHEM 451 or consent of instructor.
Including electrochemical measurements, chromatographic techniques, spectroscopic techniques, radiochemical analysis and basic electronic components of instrumentation. Emphasizing the chemical principles involved, utility and limitations of each method. Includes trace analysis of water and air.
May be repeated to a maximum of 6 units with different topics.
Lecture only (A-F). (Lecture 3 hrs.)

572. Advanced Physical Chemistry (3)
Prerequisite: CHEM 371B or consent of instructor.
Special topics in physical chemistry.
May be repeated to a maximum of 6 units with different topics.
Lecture only (A-F). (Lecture 3 hrs.)

580/480. Biomolecular Modeling and Simulation (3)
Prerequisites: CHEM 326A or CHEM 322A, MATH 123 (may be taken concurrently), and PHYS 106G or 106A, all with a grade of C or better.
The study of biomolecular phenomena using computer-based modeling and simulation techniques with varying degrees of resolution, including development and validation of molecular models.
Lecture only (A-F). (Lecture 3 hrs.)

595A. Colloquium in Biochemistry (1)
595B. Colloquium in Organic Chemistry (1)
595C. Colloquium in Analytical, Physical and Inorganic Chemistry (1)
Prerequisite: Graduate standing or consent of instructor.
Discussion of advances as reported in recent literature. Provides experience in library use, organization, presentation, and critical evaluation of the chemical literature.
May be repeated to a maximum of 3 units (not more than a total of 3 units may be earned in any combination of CHEM 595 courses).
Lecture only (A-F). (Seminar 1 hr.)

660. Seminar in Chemistry (1)
Weekly meetings for presentation and discussion of advanced work in special fields including original research by faculty and graduate students.
Credit/No Credit grading only. (Seminar 1 hr.) May be repeated to a maximum of 2 units.
CHICANO AND LATINO STUDIES
College of Liberal Arts

Department Chair: Luis Arroyo
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Telephone: (562) 985-4644
Faculty: Luis Arroyo, Juan Benitez, Antonia Garcia Orozco, Jose Lopez (Emeritus), Jose Moreno, Rogelroto Rodriguez, Anna Sandoval, Victor Rodriguez, Clarissa Rejas
Department Secretary: Esperanza Contreras
Students desiring information should contact the department office for referral to the academic advisor.
Academic Advisor: Anna Sandoval

Career Possibilities
Social Scientist • Archivist • Social Worker • Journalist • Counselor • Teacher • Public Relations Consultant • Law • Community Organizer • School Administrator • Librarian • Parole Officer • Probation Officer • Editor • Writer • Urban/Regional Planner • Public Policy Administrator • Foreign Policy Officer • Researcher (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
Chicano and Latino Studies courses are designed to train students to work effectively in multicultural settings, to enhance their analytical and technological skills, and to provide them a profound understanding of the Chicano and Latino experiences in the United States. The department offers programs to serve the interests and goals of (1) those entering a variety of occupations; (2) teachers, counselors, administrators; (3) majors in other fields such as history, sociology, psychology, economics, literature, anthropology, who wish to include additional scope to their field of study.

Undergraduate Programs

Bachelor of Arts in Chicano and Latino Studies (code CHLSBA01) (120 units)
Requirements
Lower Division (6 units): Core Courses CHLS 100 or 101; and CHLS 105.
Upper Division (33 units) Core Courses (12 units required): CHLS 300, 310, 350, and 498.
Departmental Requirement: The language requirement may be met by one of the following options: 1) Two years of college Spanish; 2) Successful completion of SPAN 250 (Spanish for Bilinguals); 3) A score of 4 or above on the high school advanced placement exam in Spanish language or literature; 4) Successful completion of a proficiency exam.

Special Track
In addition to the general major in Chicano and Latino Studies, the department also offers a program for students who wish to complete a Special Track major in Chicano and Latino Studies. Within the Special Track, students may receive up to a maximum of 18 units of credit for upper division Chicano and Latino Studies related course work taken from other disciplines. Students wishing to pursue the Special Track major must develop an approved program of study in consultation with the Chicano and Latino Studies Department academic advisor.

The Special Track consists of 39 units total, 30 of which must be upper division, including the following:
Lower Division (9 units): CHLS 100, 101 and 105.
Upper Division (12 units): CHLS 300, 310, 350, 498.
Special Track: A maximum of 18 units of upper division course work from related fields, selected with the approval of the Chicano and Latino Studies Department advisor.

Language Requirement: The language requirement may be met by one of the following options: 1) Two years of college Spanish; 2) Successful completion of SPAN 250 (Spanish for Bilinguals); 3) A score of 4 or above on the high school advanced placement exam in Spanish language or literature; 4) Successful completion of a proficiency exam.

Minor in Chicano and Latino Studies (code CHLSUM01)
A prerequisite to receive this minor is proficiency in Spanish. This language proficiency requirement may be met by one of the following options: 1) Two years of college Spanish; 2) Successful completion of Spanish 250 (Spanish for Bilinguals); 3) A score of 4 or above on the high school advanced placement exam in Spanish language or literature; 4) Successful completion of a proficiency exam.

Requirements
Upper Division: a minimum of 24 units distributed as follows: 12 units of core requirements: CHLS 300, 310, 350, 496; 12 units selected from Cultural Studies courses: CHLS 315, 330, 390, 395, 341, 342, 380, 381, 420, 450, 490, 499; and Social Inquiry courses: CHLS 319, 320, 335I, 340, 352, 362, 400, 415, 421, 470I, 490, 499.

Certificate in Chicano and Latino Studies (code CHLSC01)
The Chicano and Latino Studies Department has established a program which offers students interested in this field the opportunity to pursue courses leading to a certificate in Chicano and Latino Studies. Courses used to meet this certificate requirement may be counted also, where applicable, toward the General Education requirements and the degree or credential requirements of the cooperating departments.

Requirements
1. A bachelor’s degree with a major in another discipline;
2. A minimum of 24 units distributed as follows: 12 units of core requirements: CHLS 300, 310, 315, 350, 408; 12

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Courses (CHLS)

**LOWER DIVISION**

1. **Writing Skills (3)**
   - Prerequisite: Students who score 147 or below on the English Placement Test and who have not taken equivalent courses in another department are eligible for enrollment in this course.
   - Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence, and paragraph. Methods for developing and organizing ideas in coherent essays. Conventional mechanics, spelling, and grammar. Also for biculturals and ESL students.
   - Does not count toward graduation, but does count toward course load. Credit/No Credit grading only.

100. **Introduction to Chicano and Latino Studies (3)**
   - Prerequisite: or Corequisite: One course from GE category A2.
   - An introductory-level course which acquaints students with the social, political, economic, and historic aspects of the Latino experience and examines how they are reflected through various and diverse forms of cultural expression in the United States. Letter grade only (A-F).

101. **Introduction to Chicano/a and Latina/o Life (3)**
   - Examination of four themes: 1) the cultural formation and transformation of Chicano/Latina/o communities; 2) the role of women in shaping Chicano/Latina/o culture; 3) Chicano/Latina/o music and visual art; 4) Mexican and Latin American immigrants in American culture.

104. **Composition (3)**
   - Prerequisites: A recorded total score of 151 or above on the English Placement test, or credit in CHLS 1 (or its equivalent) or consent of the instructor.
   - Writing, revising, and editing non-fiction prose, with emphasis on exposition and argument. Critical reading strategies for research. Satisfies the baccalaureate degree requirement for one course in written composition in English. Also for biculturals and ESL students.
   - Not open for credit to students with credit in ENGL 100W, ENGL 100, ASAM 100, B/ST 100. Letter grade only (A-F).

105. **Identity and Assimilation in Chicano and Latina/o Life (3)**
   - Prerequisite or Corequisite: One course from GE category A2.
   - Explores, comparatively, the development of Chicano/Latino identities through a survey of social scientific, historical and literary sources from Mexican American and Latina/o regional cultures, tracing the development of societal divisions based on gender, race, ethnicity and class categories.

150. **Introduction to Chicano Literary Studies (3)**
   - Prerequisite or Corequisite: One course from GE category A1.
   - Introductory survey course in Chicano and Latino literature covering traditional and contemporary literary styles and forms from selected translated Chicano and Latino readings.
   - Letter grade only (A-F). Not open for credit to students with credit in CHLS 205.

215. **U.S. Diversity and the Ethnic Experience (3)**
   - Prerequisites: Open only to Integrated Teacher Education Program students.
   - Survey of four major ethnic groups (American Indians, African American, Latin American, and Asian-American) in American society from the colonial era to the present. Special attention to the formation and transformation of each ethnic group and their individual and collective roles in the development of the United States. Same course as AIS 319, ASAM 319, AFRS 319, and ASAM 215. Not open for credit to students with credit in AFRS 219, AIS 215, ASAM 215, B/ST 215. Departments take turns offering the course in the Fall semester. Letter grade only (A-F).

224. **Introduction to Mexican Culture through its Music (3)**
   - Prerequisite: The completion of GE Foundation requirements.
   - Covers the development of Mexican culture through its music from pre-Hispanic time to the present. The scope of the class includes the development of the relationship between Mexico’s political history, and its music.
   - Letter grade only (A-F).

230. **Chicano Community Organization (3)**
   - Analysis of Chicano community groups; emphasis on development of community organizational techniques.

250. **Introduction to Cultures of Latin America and the Caribbean through Music (3)**
   - Prerequisite: Completion of GE Foundations requirements.
   - Introduction to Latin American and Caribbean cultures through music from the pre-Hispanic era to the present. The course will focus on the historical, geographical, and political contexts of various Latin American and Caribbean musical genres.
   - Letter grade only (A-F).

**UPPER DIVISION**

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

300. **Chicano History (3)**
   - Prerequisite: Completion of GE Foundation requirements.
   - Focus on the development of Chicano in the Southwest and in contemporary U.S. society. Chicano experience as a U.S. minority group; emerging civil rights movement of La Raza.
   - Letter grade only (A-F). Same course as HIST 370. Not open for credit to students with credit in HIST 370.

310. **Chicano Thought (3)**
   - Study of the ideas, philosophies and events affecting Chicano life; identification and examination of the Chicano world view, of a Chicano reality.

315. **Contemporary Indigenous Peoples of Aztec and Latin America (3)**
   - Same course as AIS 315. 319. The Ethnic Experience in the U.S. (3)
   - Prerequisite: Completion of GE Foundation requirements.
   - Examination of the dynamics of the development of our multicultural society, emphasizing study of the four distinct ethnic strands of American society (Asian American, Black American, Mexican American, and American Indian) and their role in the maintenance of cultural diversity in the United States.
   - Some course as AIS 319, ASAM 319, AFRS 319, WGST 319. Not open for credit to students with credit in AFRS 219, AIS 219, ASAM 219, WGST 219, WGST 319. (Lecture/Discussion.)

320. **Wealth and Poverty in Latino Communities (3)**
   - Introduction to the interlocking processes of creating wealth and producing poverty in the context of Latino communities in the United States. The focus will be comparative and will critically examine theories used to explain poverty and wealth.
   - Letter grade only (A-F).

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330. Critical Issues In Chicana and Latina Studies (3)
Prerequisite: Upper division standing or consent of instructor.
Introduces students to four critical themes in contemporary Chicana and Latina feminist scholarship: (1) power and resistance; (2) the construction of work, family, and culture; (3) cultural representations/presentations; and (4) social and biological reproduction.

335L. Asian and Latino Immigration Since World War II (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examines the causes of massive Asian and Latino immigration as well as major contemporary issues in the Asian and Latino communities.
Same course as ASAM 335L. Not open for credit to students with credit in ASAM 329L. (Lecture and discussion 3 hours)

340. Latino Education in the U.S. (3)
Survey of Latinos in the U.S., including topics such as immigration, settlement patterns, employment, family, language and culture. Emphasis is on racism and the interactions of class and gender and the heterogeneity of the Latino population.
Letter grade only (A-F).

341. Asian American and Chicano/Latino Cinema (3)
Prerequisites: Completion of the Foundation courses. A team-taught course that explores connections between Asian American and Chicano/Latino cinema, with emphasis given to recurring issues presented in films within historical, literary, and cultural studies frameworks.
Same course as ASAM 341. Not open for credit to students with credit in CHLS 403 or ASAM 341.

342. Chicano, Filipinos, and Popular Cultures (3)
Prerequisites: Completion of the Foundation courses and upper-division status.
This course is a team-taught seminar that explores the historical roots of politics of expressive and cultural practices among Chicanos and Filipinos. Special attention will be paid to themes of resistance, gender, migration, imperialism, hybridity, and post-colonial identities and transformations.
Same course as ASAM 342. Not open for credit to students with credit in ASAM 342.

350. The Latino Population in the United States (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of the comparative historical, transnational, cultural and socio-economic experience (including class, gender, immigration and settlement patterns) of the various Latino sub-groups in the United States.
Letter grade only (A-F). Same course as SOC 340.

352. Central American and Caribbean Peoples in California (3)
Survey of the socioeconomic conditions and cultural life of the Central American and Caribbean communities in California, such as Salvadoran, Guatemalan, Puerto Rican, and Cuban communities. Similarities and differences with the Mexican American community will be examined.
Same course as SOA 341. Not open for credit to student with credit in SOA 341.

362. Chicanas and the Law (3)
Analysis of the relationship of the Chicano to the U.S. legal and political system. Topics include traditional sociological and criminological theories of Chicano criminality, the Pachuco image, and Chicano experiences with the police and correctional institutions.
Letter grade only (A-F).

380. Chicano/Latino Theatre (3)
Prerequisite: Upper Division Status
Explores evolution of Chicanoa/Latinoa Theatre within sexual/ethnic/cultural identity context. Comprehensive analysis of theatrical texts and performance arts developed from Pre-Columbian to contemporary Chicanoa/Latinoa playwrights.

381. Chicano/Latino Studio (3)
Praxis of Chicano/Latino narrative, spoken-word and performance art within an interdisciplinary context. Stresses application of performance techniques from Pre-Columbian to contemporary Chicanoa/Latinoa playwrights and performance artists.

390. The “Hispanic” Southwest: Historical and Literary Images (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Critical, interdisciplinary examination of the portraits of Latinos in selected historical and literary texts by Euro-American authors.

395. Latino Cultural Images in Film (3)
Critical, interdisciplinary examination of selected Latino cultural traits and values as these are depicted in motion pictures, documentaries, and other film genres.

400. Chicano/a and Latina/o Politics in the U.S. (3)
Prerequisites: Upper Division Standing and completion of GE Foundation courses.
Interdisciplinary introduction to the history, theories, ideologies, strategies and public policy issues by which Chicanos and Latinos have struggled to achieve power and social mobility in the United States.
Letter grade only (A-F).

415. Latina Women in the United States (3)
Prerequisite: Junior standing or consent of instructor.
Examines cultural, political, economic, and social issues that affect Latinas. Emphasis on cultural stereotypes, class, gender, identity, sexuality, and politics of race.
Same course as WST 320.

420. Chicano Heritage in the Arts of Mexico and the Southwest (3)
Historical and philosophical analysis of Mexican and Chicano plastic arts, music and dances as a way to understand the Chicano heritage.

421. Street Gangs in Comparative Perspective (3)
Analyzes the relationships of the Chicano gangs with African American, the South East Asian, and the White street gangs across the United States. Structural forces such as proletarian socialization, patriarchal traditions, and problems revolving around gender identity are examined.
Letter grade only (A-F).

430. The Latino Transnational Experience in the Caribbean: Empire, Reform and Revolution (3)
Interdisciplinary introduction to political, economic and social processes since the Spanish American War in the Hispanic Caribbean. This course will focus on the relationships of imperialism, migration and diasporic communities in the United States.
Letter grade only (A-F).

450A. Latinas and Revolution: Central America and Late 20th Century Mexico (3)
Prerequisite/Corequisite: ENGL 100 and upper division status or consent of instructor.
Examines how war and struggles for democracy shape the social consciousness and political activism of Latinas. Uses literature, film, history, and political theory to examine the role of violence in

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women's lives, community organizing, and the conceptualization of a pan-Latina feminist movement.

450B. Latinas and Revolution: Caribbean, U.S. and Early 20th Century Mexico (3)
Prerequisite/Corequisite: ENGL 100 and upper division status or consent of instructor.
Examines how war, revolution, and struggles for democracy shape the social consciousness and political participation of Latinas. Uses film, literature, history, and political theory to identify differences in contexts of community struggle and points of intersection within Latina activism.
Letter grade only (A-F). Same course as WIST 445A. Not open for credit to student with credit in WIST 445A.

450L. Consequences of the Encounter: The Americas, Europe, and Africa (3)
Prerequisites: Completion of the GE Foundation requirement, completion of one or more Exploration courses, and upper division status.
Consequences of Columbus's encounter in Africa, Europe, and the Americas (1492-present). Art, Literature, and Social Sciences mesh in order to examine encounter's relation to obliteration, suppression and creation of culture in Old and New Worlds.
Same course as RGR 450L. Not open for credit to student with credit in RGR 450L.

470L. Latinas/Latinos: Health Status and Health Care Access (3)
Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing.
Interdisciplinary exploration of policies, epidemiologic, cultural factors influencing disease within Latino subpopulations, their impact upon efficient, equitable service delivery. (16 words)
Letter grade only (A-F). Same course as HCA 470L. Not open for credit to student with credit in HCA 470L.

490. Special Topics in Chicano and Latino Studies (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in Chicano and Latino Studies selected for intensive development. May be repeated for a maximum of six units in different semesters. Topics will be announced in the Schedule of Classes.

498. Senior Colloquium (3)
Prerequisite: Consent of the instructor.
Analysis of issues and problems in Chicano and Latino studies. Designed as a seminar in research and methodology. The material discussed will center about a general theme selected by the instructor.
Letter grade only (A-F). May be repeated for a maximum of 8 units in different semesters with different topics but no more than three units may be used to satisfy the requirements for the major.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Preparation of research reports on selected topics relating to the Mexican-American.
May be repeated for a maximum of six units. Letter grade only (A-F).
CHILD DEVELOPMENT AND FAMILY STUDIES
College of Health and Human Services
Department of Family and Consumer Sciences

Department Chair: Wendy Reibold
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone / Fax: (562) 985-4484 / 985-4414
Website: www.csulb.edu/colleges/health/familydepartment/fcs
Faculty: Judith Argil, Lee Blecher, Maria Claver, Gail C. Frank, Avery E. Goldstein, James E. Kovac, Jacqueline J. Lee, Margaret Lichy, Suzanne Marshall, Natasha Medora, Wendy Reibold, Lydia Sengdi, M. Sue Stenley, Ramesh U. Yorra (Emeritus), Richard V. Tuveson, Jung-Moo (Ronnie) Yoh
Baccalaureate Program Coordinator: Richard V. Tuveson
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichy
Administrative Support Coordinators:
Mikal Lok, Marina Bencesky
Instructional Support Technician: Bonnie Rice

Career Possibilities
Child Care Administrator • Family Life Educator • Child Life Specialist • Teen Pregnancy Counselor • Child Care Educator (Infant and Toddler Care, Preschool Teaching, School-Age Programs) • Child Development Consultant • Community Resource and Referral Professional • Parent Educator • Corporate Human Service Consultant • Working with Military Families • Toy Research and Development Professional. A credential or graduate degree would expand employment opportunities to include: Social Worker • Marriage and Family Counselor • College Instructor • Teacher (For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Arts in Family and Consumer Sciences
The Department of Family and Consumer Sciences offers students a Bachelor of Arts degree in six option areas of study:
• Child Development and Family Studies
• Consumer Affairs
• Family and Consumer Sciences Education
• Family Life Education
• Fashion Merchandising
• Textiles and Clothing

Requirements for all majors include a minimum of 120 units for the Bachelor of Arts degree. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences must be completed, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this University and it is first accepted by the University.
Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this catalog.

Child Development and Family Studies

The field of Child Development and Family Studies (CDFS) strives to improve the lives of children and families. As an integrative and interdisciplinary specialization, CDFS incorporates information from a variety of disciplines to provide a comprehensive academic and professional background for working with children and families. Our primary focus is on utilizing the preventive approach to assist individuals and families with daily living.

Option in Child Development and Family Studies (code FCS_BA01) (120 units)

Biol 205 or 207 or 208; Psy 100; Soc 100 or Anth 120; CDFS 111, 211, 214 and 414 or 215 and 415, 311 or 314, 3129, 411, 413, 490A or FCS 497 or second semester of CDFS 414 or 415; CAFF 321; FGSE 209, 490; NUTR 132; plus 9 units of advisor-approved electives. The student also must select with a Child Development and Family Studies advisor’s approval 15 units from CDFS 310L, 402, 409, 410, 412, 416A, 416B, 417, 418, 419, or CDFS courses not taken above. Each course on the student’s program planner must be completed with a grade of “C” or higher. In addition, a course in which a grade lower than “C” is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a “C” may proceed with other courses with the approval of the Child Development and Family Studies Area Coordinator.

Minor in Child Development and Family Studies (code FCS_UMO06)

The Child Development and Family Studies (CDFS) minor offers the opportunity to take a concentration of courses focusing on children and families. By providing students with an aggregate of CDFS courses students will be better prepared careers relating to children and families in an array of settings.

Requirements

Students seeking a minor in CDFS must meet all prerequisite course requirements. In addition, students must maintain a “C” or better in all courses required for the minor. The minor requires 21 total units: nine units of core courses consisting of CDFS 111, 3129, and 319L and 12 units selected from CDFS 211, 214, 215, 311, 314, 409, 410, 411, 412, 413, 414, 415, and 418.

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Family Life Education

This option is available in the Department of Family and Consumer Sciences. It was introduced in response to a certification process developed by the National Council on Family Relations (NCFR). NCFR is the leading national organization for professionals concerned with promoting and enhancing the quality of family life. NCFR sponsors the only national program to certify family life educators.

Family life education provides skills and knowledge to enrich individual and family life. Family Life Education preparation is based on the suggested guidelines and content areas outlined by NCFR. According to NCFR, there are ten substance areas that constitute family life education. These include knowledge about how families work; the interrelationship of families and society; human growth and development throughout the life span; the physiological and psychological aspects of human sexuality; the impact of money and time management on daily family life; the importance and value of parent education; the effects of policy and legislation on families; ethical considerations in professional conduct; and a solid understanding and knowledge of how to teach and/or develop curriculum for what are often sensitive and personal issues.

After completing the recommended preparatory course work in this department, it is possible to get two types of certification from NCFR.

Provisional Certification from the National Council on Family Relations (NCFR) is available to students who complete the approved courses that correspond to the ten substance areas from an approved program, but without the minimum two years of work experience.

Full Certification from the NCFR is available to students who graduate from an approved academic program and have completed at least two years of work experience as a family life educator. The work experience of the student has to be submitted, reviewed, and approved by an NCFR review committee.

This certification enables students to be employed in professional positions in family life education such as a parent educator, a family life educator in a private, government, or business setting, a coordinator for public policy issues affecting children and families, a research facilitator for programs focusing on children, adolescents, and families, developing curriculum for areas within Family Life Education, a bereavement counselor for children and families, a teen and adolescent counselor, a consultant to work with military families, a health care consultant, and work in a ministry setting.

According to NCFR, the benefits of certification for the student includes the following:

- Recognition of the high standards and criteria needed to provide quality family life education.
- Validation of the students’ education and work experience.
- Completion of the ten substance areas of family life education.
- Acknowledgment of the preventive focus of family life education.

Interested students should contact the Family Life Education Coordinator, Dr. Nifurra P. Medora, Family and Consumer Sciences (562) 985-4488 or at medora@csulb.edu

Option in Family Life Education (code FCS_BA12) (120 units)

Family Life Education in the Department of Family and Consumer Sciences provides an academic and professional background for work with children, adults, couples, and families. It offers an interdisciplinary foundation in several areas that influence and enhance the quality of life of children, adults, couples, and families based on education, enrichment, and prevention. Fieldwork opportunities where students have direct experiences with individuals and families in the community are provided for qualified students.

Requirements

- ANTH 120 or SOC 100; BIOC 205 or 207; GERN 4001 or HDEV 357; HSC 425; PSY 100; CDFS 111, 312.1, 319, 410, 411, 412, 413, 418, 419, 492B, 311 or 314, 402 or SOC 423; CAFS 321; FCSE 296, 490; NUTR 132, plus 9 units of advisor-approved electives.

Each course on the student’s program planner must be completed with a grade of “C” or higher.

In addition, a course in which a grade lower than a “C” is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a “C” may proceed with other courses with the approval of the Child Development and Family Studies Area Coordinator.

Child Development and Family Studies Courses (CDFS)

LOWER DIVISION

111. Preschool Child (3)
Behavior and development in early childhood, with emphasis on the interaction of parents, children and teachers. (Lecture-discussion 3 hours)

211. Guiding Young Children (3)
Prerequisites: PSY 100 or SOC 100 or CDFS 111.
Processes, techniques, models, research, and selected issues in child guidance as applied to 3-5 year-old children in family and community settings. Development of a personal approach to guidance based on current scientific research and theory concerning child development. (Lecture-discussion 3 hours)

214. Environments for Preschool Children (3)
Prerequisites: CDFS 111 or consent of instructor.
Introduction to preschool care-giving practices. Growth and development of preschool children relating to the classroom environment. Application of theories, models, and research to current preschool classroom practices. (Lecture-discussion 3 hours)

215. Environments for Infants and Toddlers (3)
Prerequisites: CDFS 111 or consent of instructor.
Introduction to infant and toddler care-giving practices. Growth and development of children from birth through three years of age relating to the classroom environment. Application of theories, models, and research to current infant and toddler classroom practices. (Lecture-discussion 3 hours)
219. Stress, Coping and Resiliency for the Professional Educator (3)
Prerequisites: ENGL 100.
Identification of stressors which diminish the effectiveness of the learning environment for at risk school children. Use Family Resiliency Model to examine critical family dynamics. Practical stress management for future teachers.
Letter grade only (A-F). (Lecture-Discussion 3 hours)

290. Directed Studies (1-3)
Independent study under the direction of a faculty member. Exploration and experience in areas which are not a part of any regular course.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics. (Seminar)

UPPER DIVISION

311. Prenatal Development and Infancy (3)
Prerequisites: CDFS 111 and upper division standing.
Human development from conception through prenatal development, childbirth, the neonatal period, infancy and toddlerhood with emphasis on the various aspects of development and the environmental/social factors essential for human growth.
(Lecture-discussion 3 hours)

312L. Family and Personal Development (3)
Prerequisites: Completion of G.E. foundation courses; PSY 100 or SOC 100 or ANTH 120; upper division standing; or consent of instructor.
Interdisciplinary introduction to the concepts underlying contemporary family life and the influence of social and cultural conditions on human development.
(Lecture-discussion 3 hours)

314. The Older Child (3)
Prerequisites: CDFS 111, and upper division standing or consent of instructor.
Behavior and development in middle and late childhood and adolescence, with emphasis on individual and cultural differences.
(Lecture-discussion 3 hours)

319L. Family Stress and Coping (3)
Prerequisites: Completion of G.E. Foundation courses; ANTH 120 or PSY 100 or SOC 100 or consent of instructor.
Examination of theories and research associated with stressors affecting family functioning throughout the life cycle. Consideration given to both normative transitions and non-normative stressors. Emphasis on strategies to assist families to deal productively with stress and change.
(Lecture-discussion 3 hours)

356L. Fathers and Fathering (3)
Prerequisites: PSY 100; SOC 100 or CDFS 111.
An overview of the psychological literature on parenting with an emphasis on fathers/fatherhood in the U.S. Focus on current literature and research regarding the perceived and changing roles of fathers, including ethnic fathers, in an effort to diminish stereotypes. (This course is for both men and women.)
Same course as PSY 366. Not open for credit to students with credit in PSY 366.

402. Child and Family Law (3)
Prerequisites: CDFS 312L and upper division standing.
Establishment, conduct, and termination of marital and non-marital family relationships, including the rights and duties of the parties involved. Topics include marital dissolution, child custody issues, property rights, domestic violence, adoption, support, genetic testing, and new trends in family law.
Letter grade only (A-F). (Lecture-discussion 3 hours)

409. Language, Learning and the Developing Child: A Cross-Cultural Perspective (3)
Explores the communicative-linguistic, cognitive, physical, and socio-emotional development of the child from the prenatal to adolescent period across diverse cultures with an emphasis on language acquisition and the learning process.
Letter grade only (A-F). Not open for credit to students currently enrolled in the Liberal Studies program. Same course as EDEL 429. Not open for credit to students with credit in LING 429, EDEL 429, and EDP 428.

410. International Families: Families in Cross-Cultural Perspectives (3)
Prerequisites: CDWS 312L or consent of instructor.
Basic concepts and definitions relating cross-cultural studies will be discussed. Important family life cycle changes will be explained for major ethnic groups within the United States. Family life in selected international families will also be examined.
(Lecture-discussion 3 hours)

411. Individual Child Study and Guidance (3)
Prerequisites: Upper division standing; CDWS 311 or 314 or HDEV 307 or PSY 364; or consent of instructor.
Analysis and interpretation of theory, research, trends and techniques for the study and guidance of the individual child in family and community settings.
(Lecture-discussion 3 hours)

412. Family Interaction (3)
Prerequisites: Upper division standing, CDWS 312L, or consent of instructor.
Dynamics of interaction and communication in interpersonal relationships throughout the family life cycle. Experience with a variety of communication skills in small group settings.
(Lecture-discussion 3 hours)

413. Child and Family in the Community (3)
Prerequisites: Upper-division standing, CDWS 312L, or consent of instructor.
Study of cultural variables and the needs of the contemporary American family in an urban community. Analysis of current issues and problems; identification of and experience with community resources and agencies.
(Lecture-discussion 3 hours)

414. Fieldwork with Preschool Children (3)
Prerequisites: CDWS 111, 211, 214, or consent of instructor.
Supervised teaching/learning experience with preschool children including development of skills for observation and assessment as well as curriculum planning, implementation and evaluation.
May be repeated to a maximum of 6 units with assignments reflecting increasing levels of difficulty. (Lecture 1 hour, laboratory 6 hours)

415. Fieldwork with Infants/Toddlers (3)
Prerequisites: CDWS 111, 211, 215, or consent of instructor.
Supervised teaching/learning experience with preschool children including development of skills for observation and assessment as well as curriculum planning, implementation and evaluation.
May be repeated to a maximum of 6 units in different semesters with assignments reflecting increasing levels of difficulty. (Lecture 1 hour, laboratory 6 hours) Letter grade only (A-F)

416A. Introduction to Administration and Supervision of Child Development Programs (3)
Prerequisites: CDWS 414 or 415 or consent of instructor.
Minimum and recommended standards and laws pertaining to licensing, equipment, play space, child/child ratio, health supervision and meal service for children's programs. Selection and supervision of personnel, program planning and directing.
(Lecture-discussion 3 hours)

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416B. Applications of Administration and Supervision of Child Development Programs (3)
Prerequisites: CDFS 416A or consent of instructor.
Decision theory and its application, communication strategies, planning, operating and evaluating programs for young children. (Lecture-discussion 3 hours)

417. Premarital Intervention (3)
Prerequisites: CDFS 312B or consent of instructor.
Review of research on dating relationships and intervention programs designed for individuals or couples prior to marriage. Emphasis on applying research to the development of programs to assist premarital individuals enrich their relationships. (Lecture-discussion 3 hours)

418. Parent Education (3)
Prerequisites: Upper-division standing and at least 6 units of upper-division child development and family studies or equivalent course, or consent of instructor.
Principles and techniques for working with parents in community and school programs. Assessment of needs and development of programs for adults in a variety of social and cultural settings. (Lecture-discussion 3 hours)

419. Family Life Education (3)
Prerequisites: Upper-division standing, CDFS 413, or consent of instructor.
History, purpose, principles, ethics, ten substance areas, and paradigms of family life education will be explored. Planning, implementing, and evaluating family life education programs will be discussed. Gender, ethnicity, and diversity issues related to family life education will be stressed. Letter grade only (A-F). (Lecture-discussion 3 hours)

492A. Internship in Child Development and Family Studies (3)
Prerequisites: Student must be a Family and Consumer Sciences: Child Development and Family Studies major, have senior standing, have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Child Development and Family Studies; and CDFS 411, 413, and 414 or 415. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator. Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student with supervisor must be approved by major advisor and form the basis for evaluation. May be repeated for 6 units maximum. (Seminar 3 hours)

492B. Internship in Family Life Education (3)
Prerequisites: Student must be a major in Family and Consumer Sciences in the option of Child Development and Family Studies; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Child Development and Family Studies; and CDFS 412, 413, and 419.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student with supervisor must be approved by major advisor and form the basis for evaluation. May be repeated for 6 units maximum. (Seminar 3 hours)
CHINESE STUDIES
College of Liberal Arts
Department of Asian and Asian American Studies

Department Chair: John N. Tsuichida
Vice Chair: Hsin-sheng C. Kao
Department Office: Faculty Offices FC3-340
Telephone: (562) 985-4645
Fax: (562) 985-1525
Center: Center for Asian Pacific American Studies
Website: http://www.csulb.edu/dept/as

Faculty: Masako O. Douglas, Linda N. España-Maram, San-pao (Emeritus) Feng Ying Ming, Hiroko Katozaka, Hsin-sheng C. Kao, Barbara W. Kim, Dean S. Toi, John N. Tsuichida, Tianwei Xie, Tori Yamada

Advisors: Graduates: Linda N. España-Maram
Undergraduate: Dean S. Toi (Asian American Studies), Hsin-sheng C. Kao (Asian Studies and Chinese Studies), Hiroko Katozaka (Japanese)

Associate Faculty: Christine Bhat (Educational Psychology, Administration and Counseling), Jeffrey Broughton (Religious Studies), Kendall Brown (Art History), Chi-Ah Chun (Psychology), Vincent Del Casino (Geography), Frank Giosetti (Geography), Liss Grober (Economics), Sarah Gunatilleke (Health Science), Jack W. Hsu (Economics), M. Kuo (History), Xiaoning Liang (Linguistics), William Mulligan (Journalism), Kim Oanh Nguyen-Lam (CLMER), Jyotna Pathnik (Teacher Education), Karen Quintilliani (Anthropology), George Scott (Anthropology), Oliver Wong (Sociology), R. Scott Wilson (Anthropology), Teresa Wright (Politics)

Administrative Support Coordinator: Chad Tsurutaki

Students desiring information should contact department office for referral to one of the faculty advisors.

Career Possibilities

Customs Inspector • Immigration Officer • Importer/Exporter • Foreign Service Officer • International Marketing Representative • Travel Guide • Social Worker • Linguist • Foreign Correspondent • Community Organization Worker • Lawyer • Librarian • International Student Advisor • Educator • Peace Corps Worker • Interpreter • Translator • CIA/ FBI Agent (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Arts in Chinese Studies (code A/VSTA02) (120 units)

The Bachelor of Arts program in Chinese Studies at CSULB is designed to provide students with linguistic and cultural preparation, supported by international perspectives and understanding of humanities for personal, socio-political, and literary-intellectual development, as well as for economic self-sufficiency in the ever-interwoven world of a global economy. The degree program is a major intended to educate and produce graduates who will have communicative proficiency, critical thinking skills, socio-cultural understanding, and literary sensibility for intercultural communication. The degree program will also provide students with an opportunity and preparation to pursue a career involving the Pacific Rim nations, and to go on to graduate and professional programs in fields such as Art, International Affairs, Business Administration, History, Literature, Law, Journalism, Public Administration, or Education.

Residence Requirement for the Majors

At least four upper division courses required for the major must be completed successfully at CSULB. Students are encouraged, however, to complete up to 2 years of their language study in approved programs of study abroad.

Requirements

A minimum of 38 units is required, including at least 15 units earned in residence at CSULB. CHIN 101 and 102 are prerequisite to the major and may be satisfied by appropriate high school preparation or by examination.

Required courses include a 3-unit lower division course, 20 units of core courses, and 15 units of electives from the following two groups: 1. Chinese and Chinese language-, literature-, or culture-related courses (9 units); and 2. China-related courses (9 units).

Lower Division Required Courses (11 units): 1. 3 units required course: CHIN 250 or 260 2. 8 units core courses: CHIN 201, 202


Chinese Studies (CHIN)

LOWER DIVISION

101. Fundamentals of Chinese (4)

Prerequisites: One GE Foundation course which may be taken concurrently, or formal prerequisites and/or competency equivalent for CHIN 101.

Introduction to pronunciation, reading, writing, conversation, and grammar.

Students with previous training or native speakers of Chinese may not enroll.
102. Fundamentals of Chinese (4)
Prerequisites: One GE Foundation course which may be taken concurrently, or formal prerequisites and/or competency equivalent for advanced study in Chinese.
Introduction to pronunciation, reading, writing, conversation, and grammar.
Students with previous training or native speakers of Chinese may not enroll.

111. Accelerated Chinese for Heritage Students I (4)
Prerequisites: One GE Foundation course (may be taken concurrently), and speaking ability of Mandarin Chinese or any of the Chinese dialects. Students who had formal studies of Chinese in China or other Chinese speaking areas may not enroll.
Focus on Chinese literacy and culture and developing reading and writing skills in context for heritage students.
Equivalent to combination of CHIN 101 and 102. Letter grade only (A-F).

201. Intermediate Chinese (4)
Prerequisites: Completion of GE Foundation requirements, or formal prerequisites and/or competency equivalent for advanced study in Chinese.
Continuation of first-year Chinese. Further development of syntax, grammar and sentence patterns, reading, writing and conversation.
Students with previous training or native speakers of Chinese may not enroll.

202. Intermediate Chinese (4)
Prerequisites: Completion of GE Foundation requirements, or formal prerequisites and/or competency equivalent for advanced study in Chinese.
Continuation of first-year Chinese. Further development of syntax, grammar and sentence patterns, reading, writing and conversation.
Students with previous training or native speakers of Chinese may not enroll.

211. Accelerated Chinese for Heritage Students II (4)
Prerequisites: CHIN 111 or speaking ability of Mandarin Chinese (or at least one of the Chinese dialects) and the ability to recognize approximately 500 Chinese characters. Students who had formal studies of Chinese in China or other Chinese speaking areas may not enroll.
The focus of the course is on Chinese literacy and culture, and further development of reading and writing skills in context for heritage students.
Equivalent to the combination of CHIN 201 and 202. Students completing this course may take the third year Chinese courses. Letter grade only (A-F).

250. Introduction to the I-Ching (3)
Prerequisites: Completion of GE Foundation requirements.
Focus on central position of the I-ching in Chinese philosophical and spiritual life, and provide a system of knowledge to analyze and reason the pattern of changes governed by the immutable Law of Change.
Lectures in English, no knowledge of Chinese required. Letter grade only (A-F).

260. Introduction to Chinese Civilization (3)
Thematic survey of various aspects of Chinese civilization from its beginning to the present. Emphasizes not only the understanding of China's history but also the cultural elements that make China a great and distinctive country.

UPPER DIVISION
General Education Category A must be completed prior to taking any upper division course except upper division language courses where students need formal prerequisites and/or competency equivalent for advanced study.

301. Advanced Chinese (3)
Prerequisites: CHIN 202 or its equivalent, or consent of the instructor.
Study of modern spoken and written Chinese involving advanced expressions. Emphasis on reading, comprehension, vocabulary building and idiomatic usage.

302. Advanced Chinese (3)
Prerequisites: CHIN 301 or its equivalent, or consent of the instructor.
Study of modern spoken and written Chinese involving advanced expressions. Emphasis on reading, comprehension, vocabulary building and idiomatic usage.

311. Advanced Spoken Chinese (3)
Prerequisite: CHIN 202 or its equivalent as determined by the instructor.
Advanced study in modern spoken Chinese and Chinese conversation. Designed to enhance advanced speaking ability in Mandarin on a range of topics.
Letter grade only (A-F).

321. Chinese Calligraphy (3)
Prerequisites: Consent of instructor. Completion of first-year Chinese or Japanese language or equivalent preferred.
Focuses on the history, development, artistry, and appreciation of Chinese calligraphy. Equal emphasis placed on hands-on practice in and outside of the classroom.

350. Business Chinese for Bilinguals (3)
Prerequisites: Native proficiency in the Chinese language or consent of instructor.
Introduction of written business forms and exploration of business culture, practice, and etiquette. Students must have reading and writing ability in Chinese for general purposes.

360. Classical Chinese (3)
Prerequisites: CHIN 202 or equivalent Chinese reading proficiency or bilingual students.
Study of the basic vocabulary, grammatical structure, and style of classical Chinese. Introduction to various genres of classical literature: prose, poetry and other literary forms.

370. Chinese Literature in English Translation (3)
Prerequisite: Completion of GE Foundation requirements.
Readings in translation of representative works of the major literary genres in China covering both the classical and the modern periods. Previous knowledge of the language is highly desirable, but not necessary.

375. The Supernatural and Fantastic in Chinese Literature (3)
Prerequisite: Upper Division standing or consent of instructor.
Study of the supernatural and fantastic elements that commonly comprise a variety of Chinese shizhu genres from the Six Dynasties (317-581) to the present. Samples of representative works will be examined in depth from the textual and intertextual perspectives.

380. Topics in Chinese Linguistics (3)
Prerequisites: CHIN 102 or equivalent.
Chinese language viewed in its linguistic context, synchronically and diachronically. Introduction to descriptive grammar of modern standard Chinese, classical Chinese, the rise of written vernacular, dialect variations and sociolinguistic issues. Lecture/discussion.
Lectures/discussion.

382B. Modern China (3)
Prerequisite: Completion of the GE Foundation. Chinese society from the 17th century to 1949.
Not open for credit to students with credit in HIST 482B.

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390. Topics in Chinese Cultural Studies (3)
Prerequisite: Upper-division standing or consent of instructor. Interdisciplinary study of representative features of contemporary Chinese culture and society.
May be repeated to a maximum of 6 units with different topics.

410/510. Chinese Information Processing (3)
Prerequisite: CHIN 202 or equivalent. May be waived with instructor’s consent.
Introduction to the fundamentals of Chinese web design, including word-processing, HTML, layout, and user interaction.
May be repeated to a maximum of 8 units with different topics.
Undergraduates register in CHIN 410; Graduates register in CHIN 510.

421. News paper and Web Reading (3)
Prerequisite: CHIN 302 or equivalent, or consent of instructor.
The course enhances students’ proficiency in Chinese through reading newspapers. Students will familiarize themselves with all aspects of Chinese culture and contemporary society, as well as the language use. A hybrid course. Letter grade only (A-F).

430A/530A. Classical Chinese Fiction (3)
Prerequisite: Upper-division standing or consent of instructor.
Study and examination of traditional Chinese fiction, ranging from major works of fiction from the Six Dynasties (317-588) through the Qing Dynasty (1644-1911).
Undergraduates register in CHIN 430A; graduates register in CHIN 530A. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

430B/530B. Classical Chinese Drama (3)
Prerequisite: Upper-division standing or consent of instructor.
Study and examination of Yuan (1279-1358) and Ming (1368-1644) drama, ranging from major works of Northern Drama (Zaju) and Southern Drama (Nanju) to Peking Opera (Jingju).
Undergraduates register in CHIN 430B; graduates register in CHIN 530B. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

430C/530C. Classical Chinese Poetry (3)
Prerequisite: Upper-division standing or consent of instructor.
Study and examination of traditional Chinese poetry, ranging from major poetic works from antiquity to Qing Dynasty (1644-1911). Textual analysis and literary interpretation are emphasized.
Undergraduates register in CHIN 430A; graduates register in CHIN 530A. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

451/551. Chinese Culture and Tradition (3)
Prerequisite: One China-related course in Asian Studies or History and CHIN 302 (Advanced Chinese) or equivalent proficiency.
Designed as a capstone language class. Instruction of this class is in Mandarin.
Undergraduates register in CHIN 451; graduates register in CHIN 551.

461/561. The Structure of Modern Chinese Language (3)
Prerequisite: CHIN 301 or equivalent or by consent of instructor.
The Chinese language viewed in its linguistic context, synchronically and diachronically. Introduction to descriptive grammar of modern standard Chinese, the rise of written vernacular, dialect variations and sociolinguistic issues.
Letter grade only (A-F).

462/562. Contrastive Analysis of Chinese and English (3)
Prerequisite: CHIN 302 or equivalent. Designed for students who plan to teach the Chinese language or do research in Chinese linguistics. Comparison of phonological, morphological, syntactic and discourse aspects of English and Chinese. Analysis of common errors in learning Chinese. Letter grade only (A-F).

471/571. Chinese Literature and Culture (3)
Prerequisite: CHIN 451, or minimum of 3 years of Chinese study, or consent of instructor.
This course will enhance students’ proficiency in Chinese through reading Chinese literature and culture-related topics with in-depth examination of representative works from linguisitc, literary, textual, and intertextual perspectives.
Letter grade only (A-F).

475/575. Reading of Chinese Communist Documents (3)
Prerequisites: CHIN 451 or consent of instructor.
Advanced Chinese language course designed to develop students’ ability to understand and analyze the newspaper editorials, documents of the Chinese Communist Party and government and works of its leaders in original Chinese text.

481/581. Principios and Practice of Teaching Chinese (3)
Prerequisite: CHIN 461/561 or consent of instructor.
Designed for students planning to become Chinese language teachers. Single Subject Credential program students or graduate students in Asian Studies or Linguistics. Preparatory text to be a Chinese teacher at all levels. Lectures, discussions, class observation and teaching preparation.
Letter grade only (A-F).

485/585. Masterpieces from China (3)
Prerequisites: Instructor’s consent.
Reading of major works from China in Chinese. Selected writings represents different periods of Chinese history, thoughts, and literary traditions. Course conducted in Chinese. May be repeated to a maximum of 6 units. Undergraduates register in CHIN 485; Graduate register in CHIN 585.

490/590. Special Topics in Chinese (3)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 6 units with different topics.
Undergraduates register in CHIN 490; Graduate register in CHIN 590.

492/592. Senior Seminar (3)
Prerequisite: One China-related course in Asian Studies or History and CHIN 302 (Advanced Chinese) or equivalent proficiency.
Introduction to research methods and study of conceptual and theoretical Chinese issues.
May be repeated to a maximum of 6 units with different topics.
Undergraduates register in CHIN 492; Graduate register in CHIN 592.

499/599. Directed Studies in Chinese (1-3)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 6 units with different topics in different semesters.

GRADUATE LEVEL

510/410. Chinese Information Processing (3)
Prerequisite: CHIN 202 or equivalent. May be waived with instructor’s consent.
Introduction to the fundamentals of Chinese web design, including word-processing, HTML, layout, and user interaction.
May be repeated to a maximum of 5 units with different topics.
Undergraduates register in CHIN 410; Graduates register in CHIN 510.

530A/430A. Classical Chinese Fiction (3)
Prerequisite: Upper-division standing or consent of instructor.
Study and examination of traditional Chinese fiction, ranging from major works of fiction from the Six Dynasties (317-588) through the Qing Dynasty (1644-1911).
Undergraduates register in CHIN 430A; graduates register in CHIN 530A. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

330B/430B. Classical Chinese Drama (3)
Prerequisite: Upper division standing or consent of instructor.
Study and examination of Yuan (1279-1368) and Ming (1368-1644) drama, ranging from major works of Northern Drama (Beijing) and Southern Drama (Nanjing) to Peking Opera (Lingxi).
Undergraduates register in CHIN 430B; graduates register in CHIN 530B. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

530C/430C. Classical Chinese Poetry (3)
Prerequisite: Upper division standing or consent of instructor.
Study and examination of traditional Chinese poetry, ranging from major poetic works from antiquity to Qin Dynasty (1644-1911). Textual analysis and literary introspection are emphasized.
Undergraduates register in CHIN 430C; graduates register in CHIN 530C. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

551/451. Chinese Culture and Tradition (3)
Prerequisite: One China-related course in Asian Studies or History and CHIN 302 (Advanced Chinese) or equivalent proficiency.
Designed as a capstone language class. Class instruction is conducted in Mandarin. Undergraduates register in CHIN 451; graduates register in CHIN 551.
Undergraduates register in CHIN 451; graduates register in CHIN 551.

561/461. The Structure of Modern Chinese Language (3)
Prerequisite: CHIN 301 or equivalent or by consent of instructor.
The Chinese language viewed in its linguistic context, synchronically and diachronically. Introduction to descriptive grammar of modern standard Chinese, the role of written vernacular dialect variations and sociolinguistic issues.
Letter grade only (A-F).

562/482. Contrastive Analysis of Chinese and English (3)
Prerequisite: CHIN 302 or equivalent. Designed for students who plan to teach the Chinese language or do research in Chinese linguistics. Comparison of phonological, morphological, syntactic and discourse aspects of English and Chinese. Analysis of common errors in learning Chinese. Letter grade only (A-F).

571/471. Chinese Literature and Culture (3)
Prerequisite: CHIN 451, or minimum of 3 years of Chinese study, or consent of instructor.
This course will enhance students' proficiency in Chinese through reading Chinese literature and culture-related topics with in-depth examination of representative works from Chinese, literary, textual, and intertextual perspectives.
Letter grade only (A-F).

575/475. Reading of Chinese Communist Documents (3)
Prerequisites: CHIN 451 or consent of instructor.
Advanced Chinese language course designed to develop students' ability to understand and analyze the newspaper editorials, documents of the Chinese Communist Party and government and works of its leaders in original Chinese text.

581/481. Principles and Practice of Teaching Chinese (3)
Prerequisite: CHIN 461/461 or consent of instructor.
Designed for students planning to become Chinese language teachers. Single Subject Credential program students or graduate students in Asian Studies or Linguistics. Prepares the student to be a Chinese teacher at all levels. Lectures, discussions, class observation and teaching preparation.
Letter grade only (A-F).

585/485. Masterpieces from China (3)
Prerequisites: Instructor's consent.
Reading of major works from China in Chinese. Selected writings represent different periods of Chinese history, thought, and literary tradition. Course conducted in Chinese.
May be repeated to a maximum of 6 units. Undergraduates register in CHIN 485; Graduate register in CHIN 585.

590/490. Special Topics in Chinese (3)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 6 units with different topics. Undergraduates register in CHIN 490; Graduate register in CHIN 590.

592/492. Senior Seminar (3)
Prerequisite: One China-related course in Asian Studies or History and CHIN 302 (Advanced Chinese) or equivalent proficiency.
Introduction to research methods and study of conceptual and theoretical Chinese issues.
May be repeated to a maximum of 6 units. Undergraduates register in CHIN 492; Graduate register in CHIN 592.

599/499. Directed Studies in Chinese (1-3 units)
Prerequisites: Consent of Instructor.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 6 units with different topics in different semesters.
CIVIL ENGINEERING AND CONSTRUCTION ENGINEERING MANAGEMENT
College of Engineering

Department Chair: Emilinda M. Parentela
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Telephone: (562) 985-9118
Website: www.csulb.edu/colleges/coel/com/
Undergraduate Advisers: Antonella Boicattino (CE), Teddi Golton (CEM), Tang-Hung Nguyen (CEM), Tang Shohab-Edison (CE/CEM)
Graduate Advisor: Jeremy Redman
General Education Advising: Academic Advising: Horn Center
Administrative Support Coordinator: Amanda Peron

Students desiring detailed information about Civil Engineering or Construction Engineering Management programs should contact the department office for referral to one of the faculty advisors.

Career Possibilities
Civil Engineer • Traffic Engineer • Sanitary Engineer • Structural Engineer • Hydraulic Engineer • Highway Administration Engineer • Harbor Engineer • Airport Engineer • Environmental Engineer • Transportation Engineer • Drainage Design Coordinator • Technical Sales and Consulting • Field Engineer • Facilities Engineer • Plant Engineer • Project Engineer • Safety Engineer • Sales Representative • Estimator • Construction Coordinator • Procurement Construction Coordinator • Construction Inspector • Cost Analysis Coordinator • Contract Coordinator • Consultant (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Civil Engineering
The Civil Engineering Program provides students with a broad educational background essential to modern civil engineering practice and research. The program is built around a basic core of mathematics, natural and engineering sciences common to accredited professional engineering programs. It is planned to give a selection of basic engineering-science and design education to enable the graduate to begin a career in any of the various fields of practice in civil engineering or to prepare for graduate study in related engineering majors. It makes possible a systematic and integrated foundation in the principles of structural analysis and design, transportation systems, environmental systems, geotechnical engineering, water resources engineering, materials, construction engineering management, and information technology. Opportunity to explore a particular area of interest is offered in the wide selection of civil engineering design electives to permit students a sequence of courses related to the area of their choice.

Bachelor of Science in Construction Engineering Management
The Bachelor of Science in Construction Engineering Management (CEM) program provides students with essential technical, managerial, and communication skills required for various CEM positions in the construction industry. It provides a learning environment that incorporates the industry needs while preparing students to successfully perform different CEM responsibilities in construction. The CEM program stresses three major emphases: Design-Build, Facility Management, and Heavy Construction; from which students have the option to select one for their specialty interest. The program is designed to accommodate both freshmen and transfered students, who previously earned credits from other colleges. Graduates of the CEM program usually find various, but not limited to, employment such as project engineer, project managers, project schedulers, cost estimators, facility managers, quality inspectors, or managing their own construction firms.

Advisory and Development Council
The Department of Civil Engineering and Construction Engineering Management is supported by two Advisory and Development Councils:

The Civil Engineering Advisory and Development Council
The Advisory Council consists of outstanding engineers and executives from industry and government in Southern California. Its function is to form a liaison between the University and Industry and to keep the administration and faculty informed of modern engineering practices. This ensures that the curricula are kept up-to-date. It also advises on placement opportunities before and after graduation.

Construction Engineering Management Advisory and Development Council
The advisory council, composed of leaders actively engaged in areas of construction with which the programs are concerned, continually provides information and guidance about industrial developments in methods, materials and techniques so that the programs reflect the best of current practices. The members examine various aspects of the programs and make recommendations in course content, methods and/or facilities. Present membership in the council is made up of representatives from the different sectors of the construction industry.

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ABET Accreditation

The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET) (Accreditation Board for Engineering and Technology, Inc., 111 Market Place, Suite #1050, Baltimore, MD 21202, phone: 410-347-7710, website: http://www.abet.org). Students enrolling in this program are strongly advised to meet with their undergraduate advisor as early as possible to become familiar with the details of the ABET requirements in math/sciences, humanities and social sciences areas, engineering sciences, and design.

Bachelor of Science in Civil Engineering (code CE__BS01) (131 units)

Mission

To educate and prepare students to succeed in the civil engineering profession by providing them with essential technical tools and skills which will enable them to perform current and future civil engineering tasks and to promote the need for lifelong learning.

Educational Objectives

The Civil Engineering Program Educational Objectives are to produce graduates, who after entering the civil engineering practice with a knowledge of fundamental civil engineering principles, current technologies and tools, communication skills and practical design experience, will:

1. Pursue lifelong learning through continuing education and advanced degrees in civil engineering or other related fields.
2. Progress to professional registration.
3. Continue to develop professionally through participation in professional organizations and/or participation in professional development activities in the industry.
4. Progress to management and/or other leadership positions in their fields.

Requirements

Minimum of 131 units required.

Lower Division: CE 101; ENGR 101 and 102; BIOL 200 or MIRC 200; CHEM 111A; CE 130, 130L, 200, 205, 206, 207; MATH 122, 123, 224; MAE 172; PHYS 151, PHYS 152 (or EE 210 and 210L).

Upper Division: GEOL 370; CE 335, 345, 346, 359, 364, 406, 407, 426, 437, 459, 481, 490; ECON 300; MATH 370A; MAE 330, 371, 373

Six units of technical design electives from: CE 427, 438, 445, 456, 457, 466, 469; two laboratories from: CE 336, 369, 430, 491, MAE 374; three units of technical electives from CE 429, 429, 435, 446, 458.

A grade of "C" or better must be achieved in all required courses listed below.

CHEM 111A, MATH 122, MATH 123, MATH 224, MATH 370A, BIOL 200, PHYS 151, ECON 300, MAE 172, MAE 373, CE 130, 200, 205, 206, 335, 345, 359, 406, 459 and 490.

Bachelor of Science in Construction Engineering Management (code ET__BS01) (130 units)

Mission

The Mission of the Construction Engineering Management program is to educate and prepare students to succeed in the construction engineering management profession by providing them with essential technical, managerial and communication skills and tools which will enable them to perform current and future construction engineering management tasks and to promote the need for lifelong learning.

Educational Objectives

The Construction Engineering Management program educational objectives are to produce graduates, who after entering the construction engineering management practice with a knowledge of fundamental construction engineering management principles and current technologies, communication skills and practical construction experience, will:

1. Provide substantial contributions to the construction industry.
2. Pursue lifelong learning through advanced education and/or advanced degrees in construction engineering management or other related fields.
3. Continue to develop professionally through participation in professional organizations and/or participation in professional development activities in the industry.
4. Progress towards professional certifications.

Requirements

Lower Division: CE 101, 130, 130L, ENGR 101, 102; MATH 122, PHYS 100A and B, CEM 121, 125; CEM 201 or ACCT 201; CEM 202, 204, 205, 225, 200, 200L.

Upper Division: CEM 300L, 304, 310, 315, 320, 324, 335, 335L, 345, 365, 375, 404, 421, 425, 426, 427, 429, 431, 438, 485, 490, CE 406; ECON 300; MGMT 300.

A grade of "C" or better must be achieved in all required courses listed below.

Phys 100A and B, MATH 122, CEM 121, 125, 200, 201, 202, 204, 205, 225, 300L, 304, 315, 310, 324, 335, 335L, 365, 373, 374, 421, 425, 426, 427, 429, 431, 432, 433, 476, 495, CE 406, MGMT 300.

Upper Division Elective Courses: Plus six units of approved electives selected in consultation with an advisor from:

1. Design-build Emphasis: CEM 373, 374, 409, 423, 443
2. Facility Management Emphasis: CEM 409, 432, 433, 434, 436
3. Heavy Construction Emphasis: CEM 409, 423, 476, 486

Fieldwork Requirements

Fieldwork experience is required for the BS in Construction Engineering Management, consisting of no less than three months full-time (or equivalent part-time) of employment in an approved industry or governmental agency. The student must hold a position equivalent to a technician or higher which affords the opportunity to exercise responsibility usually given to those who have completed two years of college. The fieldwork must be completed prior to graduation, be certified and approved by the faculty of the Department.
Waste Engineering and Management Certificate (code CE_CT01)
The 24-unit Certificate Program in Waste Management is designed to provide the interested student or qualified practitioner with the very latest in education and training in the field of management of waste as well as related resource and energy recovery. The program is conducted in cooperation with local engineering consulting firms and government agencies and could accommodate an internship of three units through directed study (CE 697).

The 24-unit certificate program may be taken (1) by a graduate as a matriculated student, (2) admitted to a CSULB graduate degree program, or admitted as an unclassified graduate student.

Regardless of how the program is taken, a grade of “C” or better must be obtained in all courses applied to the certificate, with an overall G.P.A. of 3.0. Courses taken on Credit/No Credit or Audit basis will not apply to the certificate. Graduate students taking courses in this program are reminded that grades received will be included in calculations of the M.S. requirement.

Requirements
1. Completion of an accredited baccalaureate degree in engineering or a related scientific discipline, with appropriate prerequisites to be met.
2. Satisfactory completion of 24 units which must include 15 units selected from C E 543, Public Policy and Administration 580 (Waste Management and Policy Regulation), a minimum of nine units (electives) selected from the following: C E 504, 562, 563, 564, 566, 567; CH E 555, and 585. At least one course should normally be from non-Civil Engineering offerings.
3. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
4. Filing of a program application card with Admissions and Records, and filing for the Certificate at least one semester prior to completion.

Facilities Operations Certificate (code ET_CT01)
Advisor - Testa Gottom (Civil Engineering)
Department Office - VEC 301
Telephone - (562) 985-8030

The Certificate Program in Facilities Operations is designed to qualify the graduate to serve in plant engineering, industrial construction coordination, facilities development and design, plant layout, and facilities project management. Examples of the myriad positions available to the graduate of this program include facilities planner, construction supervisor, facilities or plant supervisor, facilities project analyst, and facilities designer analyst.

This program provides the Facilities Operations graduate with a depth of technical knowledge in facilities operations-oriented technical courses, as well as the knowledge of behavioral sciences essential for managing technical functions.

Requirement
1. The Certificate in Facilities Operations may be earned concurrently with or subsequent to the baccalaureate degree.
2. This program is open to all majors who have fulfilled the prerequisites as stated below.
3. The program requires a total of 25 units as specified below.
   A. The completion of supporting technical courses chosen in consultation with an advisor.
   B. 25 units are required from the following courses: C E 410 or ET 410, C E M 121, 320, 374, 409, 431, 432, 433, 434, 435.
4. Any deviation from this program requires the written permission of the program advisor.

GRADUATE PROGRAMS

Master of Science in Civil Engineering (code CE_MS01)
Prerequisites
1. A bachelor’s degree in an accredited curriculum in civil engineering; or
2. A bachelor’s degree in engineering, a natural science or other appropriate discipline with the requirement that essential undergraduate prerequisites in civil engineering be satisfied with a minimum GPA of 2.7 in the last 60 semester units attempted;
3. Graduate students must consult with the graduate advisor for information concerning procedures and requirements for appropriate approval of their courses of study prior to enrolling in their graduate programs.

Advancement to Candidacy
1. Removal of all undergraduate deficiencies as determined by the Department Graduate Studies Committee;
2. Completion of at least 12 graduate units at CSULB; minimum GPA of 3.0; currently enrolled;
3. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).

Requirements
Completion of a minimum of 30 units beyond the bachelor’s degree and graduate coursework as follows:
1. A minimum of 24 units in engineering, probability and statistics and mathematics courses with 18 units of 500-600-level courses in Civil Engineering. Within these 18 units a student may include six units of CE 698 or three units of CE 697; Students are required to complete successfully either CE 697 or CE 698;
2. Six units of electives selected from approved upper-division or graduate courses in appropriate subjects;
3. Fulfill one of the following alternatives:
   I - Write and present orally a thesis to be approved by the thesis committee;
   II - Pass a written comprehensive examination on coursework in the student’s program.
Civil Engineer Degree (code CE_CE01)

The program leading to the Civil Engineer degree offers the qualified student professionally oriented courses with greater concentration in civil engineering than is required by the master of science in civil engineering. This program encourages appropriate advanced studies in other disciplines of the university.

Prerequisites
1. A master of science degree in civil engineering from an accredited institution with a minimum GPA of 3.5, or
2. A bachelor of science degree in civil engineering from an accredited institution with a minimum GPA of 3.0, or
3. A bachelor of science degree in engineering, mathematics, physical sciences or other appropriate disciplines from an accredited institution with a minimum GPA of 3.0 with the requirement that essential undergraduate prerequisites in civil engineering will be satisfied prior to commencing the student's civil engineering degree program;
4. The graduate student must consult with the graduate advisor and Civil Engineering graduate brochure for information concerning departmental procedures and requirements and for appropriate approvals of the course of study prior to enrolling in courses in the student's graduate program.

Exceptional cases not meeting the above minimum GPA may be considered by the Department Graduate Studies Committee.

Advancement to Candidacy
1. A Department Graduate Studies Committee, consisting of the graduate student's advisor and at least two other faculty members, will be responsible for the formulation and supervision of each individual graduate student's program;
2. The committee shall determine candidacy admission, and requirements as to removal of undergraduates and/or graduate prerequisite deficiencies;
3. Prior to determining advancement requirements the committee may, at its discretion, require the student to take an examination in the chosen area.

Requirements
1. Completion of a minimum of 60 units beyond the bachelor's degree and graduate courses, approved by the student's Department Graduate Studies Committee including:
   A. A minimum of 36 units of 500- and 600-level civil engineering courses including a thesis of nine units to be written and presented orally;
   B. Twenty-four units of 400-, 500- and 600-level approved electives.
2. No more than 30 units completed before advancement to candidacy may be used in completing the requirements for the CE degree.

Courses (C E)

LOWER DIVISION

101. Introduction to Civil Engineering and Construction Engineering Management (1)
Civil engineering and construction engineering management as a profession. Current trends and challenges, ethical, social, and environmental issues in professional practice. Professional organizations and licensure. Communication and lifelong learning skills for professional practice.
Letter grade only (A-F). (Lecture-problems 1 hour)

130. Surveying and Mapping (1)
Corequisites: CE 130L and MAE 172 or CEM 121.
Letter grade only (A-F). (Lecture-Problems 1 hour)

130L. Surveying and Mapping Laboratory (1)
Corequisite: CE 130.
Fundamentals of surveying methods as applied to construction layout. Use of level and total station for location and control of structures, vertical and horizontal control, and area determination.
Letter grade only (A-F). Not open for credit to students with credit in CE 131. (Laboratory 3 hours)

200. Materials for Civil Engineering (2)
Prerequisites: CHEM 111A and PHYS 151 and consent of department undergraduate advisors.
Basic properties of materials in civil engineering, including concrete, masonry, steel, wood, asphalt and composites.
Letter grade only (A-F). (Lecture 1 hour, Laboratory 3 hours)

205. Analytical Mechanics I (Statics) (3)
Prerequisite: PHYS 152. Prerequisite/Corequisite: MATH 123.
Application of the mechanics of equilibriums to force systems using analytical and graphical solutions of problems involving structures and machines.
Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

206. Computer Programming and Civil Engineering Applications I (2)
Prerequisites: MATH 122, PHYS 151.
Introduction to programming and application of computer to elementary civil engineering problems.
Letter grade only (A-F). (Lecture-Problems 1 hour, Laboratory 3 hours)

UPPER DIVISION

335. Fluid Mechanics (3)
Prerequisites: MATH 224 and C E 205.
Properties of fluids, fluid statics, fluid dynamics, dynamic similitude, flow of compressible and incompressible fluids in closed conduits, uniform flow in prismatic open channels.
Letter grade only (A-F). (Lecture-Problems 3 hours)

336. Fluid Mechanics Laboratory (1)
Prerequisite: ENGL 100 or equivalent. Prerequisite or corequisite: C E 335.
Experiments in and study of the phenomena of fluid flow.
Letter grade only (A-F). (Laboratory 3 hours)
407. Probability and Statistics in Civil Engineering (2)
Prerequisites: CE 206 and MATH 224. Analysis of uncertainties and applications of the basic theories of probability and statistics in civil engineering areas of geotechnical, environmental, water resources, structural and transportation engineering. Letter grade only (A-F). (Lecture-Problems 3 hours)

408. Special Problems (1-3)
Prerequisite: Senior standing in civil engineering. Assigned topics in technical literature or laboratory projects and report on same. Letter grade only (A-F).

426. Transportation Engineering (3)
Prerequisite: CE 345, Corequisite: CE 406. Operation of various modes of transportation: Characteristics of the driver, pedestrian, vehicle, and the road; fundamental principles of traffic flow; introduction to intersection design and control, planning, and geometric design; transportation issues and safety. Letter grade only (A-F). (Lecture-Problems 3 hours)

427. Highway Design (3)
Prerequisite: CE 345. Geometric design of highways and streets. Route location and earthwork computation. Introduction to roadbed and pavement design. Design problems in highway engineering. Letter grade only (A-F). (Lecture-Problems 3 hours)

428. Highway Engineering Materials (3)
Prerequisites: CE 200 and 345. Design and properties of highway materials, including aggregates, asphalt binder, and mixtures. Hot Mix Asphalt (HMA) aggregate gradation, blending procedure, volumetrics, design, plant operation, and lay down. Superpave binder testing and specifications. (Lecture 2 hours, Laboratory 3 hours) Letter grade only (A-F).

429/529. Traffic Engineering (3)
Prerequisite/Corequisite: CE 425 or Consent of instructor. Capacity and level of service analyses of highway facilities. Intersection signal timing design. Introduction to traffic control devices. Volume, speed and delay studies. Use of traffic data for design, planning and operational levels of analyses. Letter grade only (A-F). Graduate students required to do extra projects. (Lecture-Problems 3 hours)

430. Traffic Engineering Laboratory (1)
Prerequisite/Corequisite: CE 426. Laboratory activities on traffic flow theory, capacity and level of service analyses, signal timing, parking lot design, and travel demand forecasting, traffic volume, speed and delay studies. Use of traffic engineering software. (Laboratory 3 hours) Letter grade only (A-F).

435. Hydrology and Water Resources Engineering (3)
Prerequisite: CE 335. Fundamental surface and ground water hydrology concepts and quantitative methods. Selected topics and procedures of the hydrological cycle. Planning, development, and management of water resource systems. Letter grade only (A-F). (Lecture-Problems 3 hours)

437. Engineering Hydraulics (3)
Prerequisites: CE 335, MATH 370 A. Theory and analysis of steady uniform and non uniform flow in open conduits. Uniform and momentum principles, critical flow computations and applications, design of channels, computations of gradually varied, spatially varied and rapidly varied flows. Letter grade only (A-F). (Lecture-Problems 3 hours)
438. Hydraulic Engineering Design I (3)
Prerequisite/Corequisite: CE 437.
Application of hydraulic principles to the design of dams, water courses, water systems and their related structures and devices.
Letter grade only (A-F). (Lecture-Problems 3 hours)

445. Geotechnical Engineering II (3)
Prerequisites: CE 545, 546.
Methods of design and construction of various geotechnical engineering projects utilizing theory of soil mechanics.
Letter grade only (A-F). (Lecture-Problems 3 hours)

446/542. Geotechnical Projects (3)
Prerequisite: CE 345.
Design and problem solving oriented geotechnical projects utilizing soil mechanics theory and experimental methods according to the state of the art practice.
Letter grade only (A-F). Graduate students required to do additional readings and write a research term paper to deal with current topics in geotechnical engineering. (Lecture-Problems 3 hours)

455. Structural Steel Design (3)
Prerequisite: CE 458.
Detailed design of components with typical codes and specifications.
Letter grade only (A-F). (Lecture-Problems 3 hours)

456. Timber Design (3)
Prerequisite: CE 359.
Design of various structural elements made of wood material subjected to both vertical and lateral loads. Application of current building codes and specifications in timber design.
Letter grade only (A-F). (Lecture-Problems 3 hours)

457/S517. Reinforced Masonry Design (3)
Prerequisite: CE 359.
Letter grade only (A-F). Graduate students required to do a design project and assigned readings from journals and research papers. (Lecture-Problems 3 hours)

458. Structural Analysis II (3)
Prerequisite: CE 356.
Solution of indeterminate truss and frame structures using moment distribution and slope deflection methods. Introduction to matrix methods. Energy theorems and virtual work principles. Use of coded based finite element computer programs in the analysis of indeterminate structural systems.
Letter grade only (A-F). (Lecture-Problems 3 hours)

459. Reinforced Concrete Design I (3)
Prerequisites: CE 250 and 359.
Theory and design of structural elements of reinforced concrete, analysis by working stress and ultimate strength design theories.
Letter grade only (A-F). (Lecture-Problems 3 hours)

464. Environmental Engineering II: Unit Processes (3)
Prerequisites: CE 355 and 364.
Civil engineering applications of the fundamentals of chemical reactions, kinetics of biochemical systems, gas transfer systems, liquid-solid separations, solubility equilibria, adsorption, ion exchange and membrane processes.
(Lecture-Problems 3 hours) Letter grade only (A-F).

466. Environmental Systems Design (3)
Prerequisites: CE 364 or consent of instructor.
Principles of environmental systems design. Design and planning of systems for water distribution, wastewater collection and storm water management.
Letter grade only (A-F). (Lecture-Problems 3 hours)

481. Professional Practice in Civil Engineering (1)
Prerequisite: Senior standing.
Topics related to practice of civil engineering profession. Professional society meetings and readings.
Letter grade only (A-F). (Lecture-Problems 1 hour)

490. Senior Design Project (3)
Prerequisite: CE 461; completion of all 300 level engineering courses for the civil engineering major and consent of department undergraduate advisor. Prerequisite/Corequisite: CE 462, 437. Normally taken in the last year of the undergraduate program. A supervised design group project, incorporating all aspects from concept to completed design and oral presentations. Technical aspects, social, environmental, and economic issues considered. Ethical concepts discussed.
Letter grade only (A-F). (Lecture-Problems 2 hours, Design laboratory 3 hours)

491. Structures Laboratory (1)
Prerequisite: CE 359 and ENGL 100 or equivalent. Prerequisites/ Corequisites: CE 455, 459.
Laboratory examination of structural concepts. Utilize computer simulation modeling techniques in combination with structural tests.
Letter grade only (A-F). (Lecture 3 hours)

495. Seismic Design I (3)
Prerequisites: CE 459.
Elements of lateral-force design in steel, concrete, masonry, and timber structures. Application of current building codes.
Letter grade only (A-F). (Lecture 3 hours)

497. Senior Problem Directed Studies (2)
Prerequisites or corequisites: CE 461, 467. Directed study on assigned topics or labfield studies practicum and report on same.
Letter grade only (A-F).

GRADUATE LEVEL

500. Engineering Analysis I (3)
Prerequisites: MATH 370A.
Letter grade only (A-F). (Lecture-Problems 3 hours)

501. Engineering Analysis II (3)
Prerequisite: MATH 370A.
Analysis of engineering mechanics by matrix theory and complex variables; introduction to numerical techniques.
Letter grade only (A-F). (Lecture-Problems 3 hours)

502. Finite Element Methods II (3)
Prerequisite: Consent of instructor.
Theory of finite element methods. Discretization of continuum, element stiffness matrices and direct stiffness formulation. Application to frames, plate stress and strain, plato and shell problems using SAP.
Letter grade only (A-F). (Lecture-Problems 3 hours)
503. Selected Topics in Civil Engineering (3)
Prerequisite: Graduate standing and consent of instructor. Selected topics, with laboratory work required, from the most recent developments in civil engineering. Course content will vary from year to year and the specific topic will be recorded on the student's transcript. Letter grade only (A-F). May be repeated to a maximum of 6 units. No more than six units of CE 503 or CE 504 may be counted toward the Master's Degree. (Lecture-Problems 2 hours, Laboratory 3 hrs)

504. Advanced Topics in Civil Engineering (3)
Prerequisite: Graduate standing or consent of instructor. Selected topics from recent developments in civil engineering. Course content will vary from year to year. Letter grade only (A-F). May be repeated to a maximum of 8 units. No more than six units of CE 503 or CE 504 may be counted for the master's degree. (Lecture-Problems 3 hrs)

508. Probabilistic and Statistical Methods in Engineering Applications (3)
Prerequisite: Graduate standing or consent of instructor. Civil Engineering applications of nondeterministic models and decision theory. Applications of proven statistical computer programs. Letter grade only (A-F). (Lecture-Problems 3 hours)

515. Timber Design II (3)
Prerequisite: CE 350 and 456 Structural behavior of timber building/wood structures under static load. Analysis/design of non-rectangular buildings, horizontal diaphragms and shear walls. Analysis/design of member under biaxial bending and axial force. Load/resistance factor design (LRFD) for wood construction. Current building codes/specifications in advanced timber design. Letter grade only (A-F). (Lecture-Problems 3 hours)

517.I457. Reinforced Masonry Design (3)
Prerequisite: CE 359. Theory, design and application of reinforced masonry (brick and block) in compliance with latest Building Code. Earthquake provisions. Construction and specifications. Design of high rise buildings, industrial buildings and retaining walls. Letter grade only (A-F). Graduate students required to do a design project and assigned readings from journals and research papers. (Lecture-Problems 3 hours)

520. Seacoast Planning and Design (3)
Prerequisite: CE 426 or consent of instructor. Planning and design of seacoasts and facilities as access systems. Support transportation, use analysis and ocean transport crafts. Site selection and comprehensive planning. Letter grade only (A-F). (Lecture-Problems 3 hours)

522. Transportation Planning (3)
Prerequisite: CE 426 or consent of instructor. Planning of fixed facilities for various modes of transportation in urban areas. Engineering administration and integration of transportation systems. Letter grade only (A-F). (Lecture-Problems 3 hours)

526. Pavement Engineering (3)
Corequisite: CE 427 or consent of Instructor. Aggregate, binder systems. Theory and design of pavement structures. Letter grade only (A-F). (Lecture-Problems 3 hours)

529. Traffic Engineering (3)
Prerequisite/Corequisite: CE 426 or consent of instructor. Capacity and level of service analyses of highway facilities. Intersection signal timing design. Introduction to traffic control devices. Volume, speed and delay studies. Use of traffic data for design, planning and operational levels of analysis. Graduate students required to do extra projects. Letter grade only (A-F). (Lecture-Problems 3 hours)

530. Groundwater Flow: Principles and Modeling (3)

532. Sediment Transportation (3)
Prerequisite: CE 437. Phenomena of sediment transportation related to streams and marine environments. Letter grade only (A-F). (Lecture-Problems 3 hours)

533. Groundwater Contaminant Transport: Principles and Modeling (3)

535. Advanced Hydrology (3)
Prerequisite: Graduate standing or consent of instructor. Theory and application of surface hydrology. Hydrologic statistics, dynamic wave routing, frequency analysis and risk analysis. Simulation of design flows, flood forecasting, flood plain analysis and hydrologic design. Mathematical models, numerical methods in analysis and evaluation. Letter grade only (A-F). (Lecture-Problems 3 hours)

536. Urban Surface Water Management (3)
Prerequisite: CE 437 or consent of instructor. Planning and design of facilities to control flooding, erosion, sedimentation, and non point source pollution for urban storm water runoff management. Presentation of analysis and design methodologies, structural and non-structural measures for management, and master planning principles. Letter grade only (A-F). (Lecture-Problems 3 hours)

538. Hydraulic Engineering Design II (3)
Prerequisites: C E 437, 438 or consent of instructor. Design of water supply networks, hydraulic transitions, controls and structures. Hydraulic power conversion. River engineering. Water resources systems. Letter grade only (A-F). (Lecture-Problems 3 hours)

542. Geotechnical Projects (3)
Prerequisite: CE 345. Design and problem solving oriented geotechnical projects utilizing soil mechanics theory and experimental methods according to the state-of-the-art practice. Letter grade only (A-F). Graduate students required to do additional readings and write a research report to deal with current topics in geotechnical engineering. (Lecture-Problems 3 hours)

543. Waste Management and Landfill Engineering (3)
Prerequisite: Graduate standing or consent of instructor. Advanced principles and practices of landfill engineering for waste management and subsurface flow problems. Presentation
of research and case studies in geotechnical aspects of waste management and landfill engineering.
Letter grade only (A-F). (Lecture-Problems 3 hours)

546. Theory and Design of Foundation Structures (3)
Prerequisite: CE 345 or consent of instructor.
Foundation excavations, stress and deformation relationships and design of various footings, piles, piers and caissons. Analysis of lateral loads and design of retaining structures, machinery foundations and foundation drainage systems.
Letter grade only (A-F). (Lecture-Problems 3 hours)

547. Soil Dynamics (3)
Prerequisite: CE 345 or consent of instructor.
Theories and field behaviors of dynamically loaded foundation systems and soil responses with emphasis on engineering applications.
Letter grade only (A-F). (Lecture-Problems 3 hours)

548. Geotechnical Engineering III (3)
Prerequisite: CE 345 or consent of instructor.
Stress-strain time relationship of soils. Theory and methods of analysis with special emphasis on the applications and limitations in soil engineering.
Letter grade only (A-F). (Lecture-Problems 3 hours)

551. Prestressed Concrete (3)
Prerequisite: CE 459.
Principles of prestressed concrete; materials used, applications to structural design, review of existing specifications.
Letter grade only (A-F). (Lecture-Problems 3 hours)

552. Theory of Plates and Shells (3)
Prerequisite: Completion of CE 459 Graduate MATH Requirement.
Review of theory of elasticity; formulation of general equation of bending of thin elastic plates; methods of obtaining exact and approximate solutions; membrane and bending theories of shells with emphasis on cylindrical shells and shells of revolution.
Letter grade only (A-F). (Lecture-Problems 3 hours)

553. Behavior and Design of Steel Structures (3)
Prerequisite: CE 459.
Study of tension, unsymmetrical bending, stability. Plastic design, codes provisions and commentary. Design of complete structural systems in steel.
Letter grade only (A-F). (Lecture-Problems 3 hours)

555. Seismic Design II (3)
Prerequisite: CE 495 or consent of instructor.
Characteristics of earthquakes and seismic response spectra, modal methods of analysis, practical examples of elastic and inelastic response of structures to earthquake motions. New development in codes, computer applications.
Letter grade only (A-F). (Lecture-Problems 3 hrs)

557. Advanced Structural Analysis (3)
Prerequisite: CE 458 or consent of instructor.
Virtual forces and displacements, strain energy and complementary energy. Force and displacement matrix methods. Computer applications to planar and space frames, trusses, floor beams and shear wall systems.
(Lecture-Problems 3 hours) Letter grade only (A-F).

562. Water and Wastewater Treatment Design I (3)
Prerequisite: CE 384 or consent of instructor.
Design of physical and chemical processes for water and wastewater treatment, with emphasis on water treatment plants.
(Lecture-Problems 3 hours) Letter grade only (A-F).

563. Water and Wastewater Treatment Design II (3)
Prerequisite: CE 562 or consent of instructor.
Design of chemical and biological processes for water and wastewater treatment with emphasis on wastewater treatment.
(Lecture-Problems 3 hours) Letter grade only (A-F).

564. Environmental Health Engineering (3)
Prerequisite: CE 354 or consent of instructor.
(Lecture-Problems 3 hours) Letter grade only (A-F).

566. Unit Operations in Environmental Engineering (3)
Prerequisite: CE 354 or consent of instructor.
Civil engineering applications of the fundamentals of chemical reactions, kinetics of biochemical systems, gas transfer operations, liquid/solid separations, solubility equilibria, adsorption, ion exchange and membrane processes.
(Lecture-Problems 3 hours) Letter grade only (A-F).

567. Liquid and Solid Waste Project Planning and Management (3)
Prerequisite: CE 354 or consent of instructor.
The presentation of research and case studies of liquid and solid waste project planning and management.
Letter grade only (A-F). (Lecture 3 hours)

570. Engineering Management Principles and Practices (3)
Prerequisites: CE 406, graduate standing or consent of instructor.
Transition of engineers into management. Analysis of technical manager's functions at lower and middle levels as support to corporate management. Principles of engineering management and applications to private and public sector organizations. Case studies of practices in different technical organizations.
Letter grade only (A-F). (Lecture 3 hours)

571. Construction Planning and Cost Control (3)
Prerequisite: Graduate standing or consent of instructor.
Planning, scheduling and resource allocation for a complex construction project. Topics include traditional critical path method, advanced computer software systems and optimization techniques for construction planning and cost control.
Letter grade only (A-F). (Lecture-Problems 3 hours)

573. Engineering Specifications, Law and Contracts (3)
Prerequisite: Graduate standing or consent of instructor.
Application of law of contracts to construction contracts. Legal matters of concern to engineers.
(Lecture-Problems 3 hours) Letter grade only (A-F).

574. Methods, Analysis and Design of Construction Operations (3)
Prerequisite: CE 571 or consent of instructor.
Equipment, methods, analysis and design of a construction operation, from site work improvement and data acquisition to modelling and design. Particular attention will be paid to interfacing between design and construction activities and work method development, productivity and safety.
(Lecture-Problems 3 hours) Letter grade only (A-F).

576. Construction Organization and Management (3)
Prerequisite: Graduate standing or consent of instructor.
An introduction to construction organization, control concepts and labor, emphasizing the business aspects of construction engineering management. Topics include legal framework, finance in construction management, labor, accounting and other decision making in the construction business.
(Lecture-Problems 3 hours) Letter grade only (A-F).
Courses (C E)

577. Business Aspects and Finance of Construction Projects (3)
Prerequisite: CE 406 or consent of instructor.
Economics and business aspects in construction, financing structure, methodology, and project financial evaluation. Emphasis is on financial aspects in property acquisition, development, construction, and project management.
(Lecture-Problems 3 hours) Letter grade only (A-F).

578. Management of Advanced Technologies in Construction (3)
Prerequisite: Consent of instructor.
New development of advanced technology as applied to construction industry. Productivity and competitiveness in construction on the basis of new technology. Comparison of construction innovation in the U.S., Japan, and other countries.
(Lecture-Problems 3 hours) Letter grade only (A-F).

582. Management of Productivity and Quality (3)
Prerequisite: CE 570 or consent of instructor.
System approaches to quality and productivity in construction. Total Quality Management (TQM) in construction engineering and management. Investigation of methods and strategies for improving competitiveness at the company level. Domestic and international competitiveness in the construction business.
(Lecture-Problems 3 hours) Letter grade only (A-F).

585. Utility Rehabilitation and Construction (3)
State of infrastructure systems with a focus on underground facilities, diagnosis and evaluation techniques of underground utility pipes, planning, equipment, materials and methods for rehabilitation and construction of sewers and water mains using Trenchless (i.e. NO-DIG) Technology.
(Lecture-Problems 3 hours). Letter grade only (A-F).

602. Seminar in Civil Engineering (3)
Prerequisite: Graduate Standing or consent of instructor.
Presentation of research in special fields of structures, transportation, environmental, urban, geotechnical, water resources, or construction engineering management. May be repeated once for credit. No more than six units of CE 602.
(Lecture-Problems 3 hours) Letter grade only (A-F).

629. Traffic Operations (3)
Prerequisite: CE 429 or 529, or consent of instructor.
Principles of traffic flow, signal timing optimization, signal coordination, and traffic.
(Lecture-Problems 3 hours) Letter grade only (A-F).

630. Mathematical Modeling in Hydraulic Engineering (3)
Prerequisite: CE 457 or consent of instructor.
Numerical techniques for solving hydraulic problems in water supply, waste water disposal and storm drainage systems. Prediction of important parameters by mathematical modeling on problems encountered in artificial channels, rivers, estuaries and marine environments.
(Lecture-Problems 3 hours) Letter grade only (A-F).

640/740. Mathematical Modeling in Geotechnical Engineering (3)
Prerequisite: Graduate standing or consent of instructor.
Mathematical modeling techniques used in geotechnical engineering. Application of proven computer programs.
M.S. students register in CE 640. Ph.D. students register in CE 740. Ph.D. students will be required to complete a more rigorous computer project.
(Lecture-Problems 3 hours) Letter grade only (A-F).

696. Research Methods (1)
Prerequisite: Candidacy or consent of instructor.
Bibliographical and library techniques and resources. Preparation and presentation of theses and directed studies technical papers. Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: Graduate standing. Corequisite: CE 696 or written consent of directed studies advisor.
MSCE and MSE degree candidates in Civil Engineering and Interdisciplinary Areas need to have either CE 597 or CE 698 as their program requirement. Theoretical and experimental problems in civil engineering requiring intensive analysis.
Letter grade only (A-F).

698. Thesis (2-6)
Prerequisite: Admission to candidacy for degree of master of science in civil engineering. Corequisite: CE 696 or written consent of faculty advisor.
Planning, preparation and completion of a thesis and/or project in the field of civil engineering.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

699. Thesis (3-9)
Prerequisite: Admission to candidacy for degree of Civil Engineer.
Corequisite: CE 696 or written consent of faculty advisor.
Planning, preparation and completion of a thesis in the field of civil engineering practice.
Letter grade only (A-F). May be repeated to a maximum of 9 units.

740/640. Mathematical Modeling in Geotechnical Engineering (3)
Prerequisite: Graduate standing or consent of instructor.
Mathematical modeling techniques used in geotechnical engineering. Application of proven computer programs.
M.S. students register in CE 640. Ph.D. students register in CE 740. Ph.D. students will be required to complete a more rigorous computer project.
(Lecture-Problems 3 hours) Letter grade only (A-F).

Construction Engineering Management Courses (CEM)

LOWER DIVISION

121. Construction Drawing (1) F
An introduction to conventional and computer-aided drafting techniques in the rotation of drawings for construction. Interpretation of details in construction drawings/blueprints and reference materials. Laboratory: Drafting plans for a residential building using the techniques introduced in the course.
(Lecture 1 hr, laboratory 3 hrs) Letter grade only (A-F).

125. Fundamentals of Construction (2)
Survey of the professional activities and environments of Construction Education. Overview of residential, commercial, institutional, industrial, and heavy civil construction and associated codes, standards, and ethical boundaries. Areas of focus to include type of foundations, materials, contract documents, working drawings and vocabulary.
(Lecture 1 hour and Activity 2 hours) Letter grade only (A-F).

260. Concrete Construction (1)
Prerequisite: CEM 125, Corequisite: CEM 200L
Concrete composition, Concrete mix design technology, physical properties of concrete, use of admixtures, concrete batching, curing, testing. Includes physical testing of designed mixes. Modern concepts as fundamental solution to concrete construction challenges. New developments in concrete chemistry and strength theory.
Letter grade only (A-F). Not open for credit to students with credit in CEM 235. (Lecture-Discussion 1 hour)
200L. Concrete Construction Laboratory (1)
Prerequisite: CEM 200.
Laboratory exercises in support of CEM 200, Concrete Construction. Develop concrete mix designs and prepare concrete samples for testing, such as compressive strength, slump and air entrainment, and aggregate testing.
(Laboratory 3 hours) Letter grade only (A-F). Not open for credit to students with credit in CEM 200.

201. Cost Accounting for Construction Engineering (3)
Theoretical and practical concepts of cost accounting. Variable and fixed costs, break-even point, interrelationships of cost, volume and profit; job-order accounting; general and flexible budgeting; standard costs; product costing methods; cost allocation; inventory planning; control and valuation; joint product.
(Lecture-Problem 3 hours) Letter grade only (A-F).

202. Probability and Statistics for Construction Engineering Management (3)
Prerequisite: High School Algebra.
Statistics and probability theories, sampling, correlation, regression, and applied to Construction Engineering Management. Laboratory. (Simulation using statistical packages)
(Lecture 2 hours, Activity 2 hours) Letter grade only (A-F).

204. Applied Mechanics—Statics (3)
Prerequisites: MATH 122 and PHYS 100A.
(Lecture 2 hours, Activity 2 hours) Letter grade only (A-F).

205. Computer Systems and Programming (2)
Overview of computer systems, Hardware topics include: updated coverage of the central processing unit and memory, input/output devices, and storage mechanisms. Software topics include: operating systems, and systems analysis. For laboratory exercises object-oriented programming is used to solve problems.
(Lecture - Discussion 1 hour and Laboratory 3 hrs) Letter grade only (A-F).

225. Residential and Light Commercial Construction Practices (3)
Prerequisites: CEM 121, 125.
An introductory course in planning, design, and construction of residential and light commercial buildings including materials, equipment, construction/assembly methods, quantities take-off, and building codes/standards. Field trips or visual presentation is required.
(Seminar 2 hours and Activity 2 hours) Letter grade only (A-F).

UPPER DIVISION
300L. Computer Applications for Construction Engineering Management Laboratory (1)
Prerequisite: CEM 205.
Overview and laboratory exercises of computer applications in construction engineering management including: estimating, scheduling, cost control, document control and collaborative project management in the construction industry.
(Laboratory 3 hours) Letter grade only (A-F).

304. Applied Mechanics Strength of Materials (3)
Prerequisite: CEM 204.
Strength of structural materials and applications in building structures and machines. Mechanical properties of materials, structural behaviors of load resisting components associated with construction processes.
(Lecture-Problems 3 hours) Letter grade only (A-F).

310. Communication in Engineering Profession (3)
Prerequisites: ENGL 100, COMM 110 and Senior standing.
Basic concepts for understanding practice of communication in world of business for managers and professionals. Language/communications in business and role in coordinating actions, resolving breakdowns in work and customer satisfaction, Business writing formats, formal report, business presentation. International, technical, and linguistic developments in business communication.
(Lecture - Discussion 3 hours) Letter grade only (A-F).

315. Construction Safety (2)
Prerequisite: CEM 225, Corequisite: CEM 310.
Terminology, safe functions, accident costs, workmen’s compensation and liability laws, O.S.H.A., governmental and non-governmental codes, regulations and safety methods pertinent to the construction industry. Field trips.
Not open for credit to students with credit in CEM 329. (Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

320. Operations Management in Contemporary Organizations (3)
Prerequisites: MGMT 300, ENGR 310.
Overview of Managerial and organizational theories and practices - introduction to concepts, methods to analyze and improve operations performance in construction and in service organizations. Decision-making and problem-solving processes for organizations. Management effectiveness and efficiency at the organizational, process level, and performance level. (Lecture-Discussion 3 hours) Letter grade only (A-F).

324. Commercial, Institutional and Industrial Construction Practices (3)
Prerequisites: CEM 200, 225; Corequisite: CEM 315
Fundamental of commercial construction, including building layout, shallow and deep foundations, introduction to formwork systems, high strength, heavy and light weigh concrete, framing, flooring and roofing systems, construction and expansion joints, masonry and steel construction. Quantity takeoff.
(Lecture-Discussion 2 hours, Activity 2 hours). Letter grade only (A-F).

335. Soil Mechanics Technology (2)
Prerequisite: CEM 304. Corequisite: CEM 335L.
Soil Composition, description, and classification; soil compaction; determination of physical properties of soils.
(Lecture-Problems 2 hours) Letter grade only (A-F).

335L. Soil Mechanics Technology Laboratory (1)
Prerequisite: CEM 304. Corequisite: CEM 335.
Laboratory investigations and experiments in the phenomena of soil mechanics. Field trips.
(Laboratory 3 hours) Letter grade only (A-F).

345. Concrete Formwork and Temporary Structures (2)
Prerequisites: CEM 335, 335L.
Methods and techniques used in the design and construction of concrete formwork, temporary earth retaining systems, and other temporary construction structures.
(Lecture 1 hour and Activity 2 hours) Letter grade only (A-F).

365. Mechanical Equipment for Buildings (2)
Prerequisite: PHYS 106B, Corequisite: CEM 324.
Principles and current practices in water supply, waste disposal, heating, ventilating, air conditioning and fire protection.
(Lecture 1 hour and Activity 2 hours) Letter grade only (A-F).

373. Design Presentation Methods (2)
Prerequisite: Junior standing.
This course provides a general overview of the fundamentals of project delivery; attributes of all the major project delivery systems, procurement methodologies, and contracting approaches.
(Lecture 1 hour and Activity 2 hours). Letter grade only (A-F).
Construction Engineering Management Courses (CEM)

374. Plant Planning and Layout (2)
Prerequisites: CEM 520 or consent of instructor.
Planning practices, procedures and requirements for laying out industrial facilities.
(Lecture - Discussion 2 hours) Letter grade only (A-F).

375. Electrical Equipment for Buildings (2)
Prerequisites: CEM 324, PHYS 1008.
Principles and current practices in the application of electrical equipment and material utilization, sound and signal systems.
(Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

404. Structural Design I (2)
Prerequisite: CEM 304.
Fundamentals of design for structural concrete and masonry buildings in compliance with current building codes.
(Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

409. Directed Studies in Construction Engineering Management (1-3)
Prerequisites: Senior standing in CEM or consent of instructor.
Advanced work on a technical nature within area of specialization on an experimental or research basis.
Letter grade only (A-F).

421. Construction Planning and Scheduling (3)
Prerequisite: CEM 300L, CEM 324.
Planning and scheduling of construction projects by graphic charts and Critical Path Method (CPM) networks utilizing manual and computer methods.
Field trips. (Lecture-Discussion 3 hours) Letter grade only (A-F).

423. Site Analysis (2)
Prerequisite: CEM 373, CE 406.
Detailed analysis and investigation of construction sites. Economics and feasibility of land development.
Field trips (Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

425. Earthwork and Civil Works Construction Practices (2)
Prerequisite: CEM 324, CE 406.
Fundamentals of earthmoving operations, including volume calculation and mass diagrams, soil protection and dewatering systems, volume change characteristics and fundamentals of moving earth, equipment selection, management and economics.
(Seminar 1 hour and Activity 2 hours) Letter grade only (A-F).

426. Business and Construction Law (3)
Prerequisite: CEM 315.
Contractor license laws, mechanics lien laws, real estate and subdivision laws, public works projects, bid and bid requirements. O.S.H.A., litigation and legal trends in affirmative action and minority subcontractor quotes, design professional's liability.
Letter grade only (A-F).

427. Contract Administration (2)
Prerequisite CEM 426. Corequisite: CEM 426.
Survey administrative procedures of general and subcontractors. Study documentation, claims, liens, waivers, arbitration, litigation, bonding, insurance, and indemnification. Discuss ethical practices.
Field trips. (Lecture-Discussion 2 hours) Letter grade only (A-F).

429. Advanced Estimating and Bidding (3)
Prerequisites: CE 406, CEM 421, 425.
A study of the concept and practices involved in the total estimate bidding process in construction, from initial project selection for submission of final bids. A complete project estimate and bid is prepared by each study.
(Lecture 2 hours, Activity 2 hours) Letter grade only (A-F).

431. Construction Cost Control (2)
Prerequisites: CE 406 and CEM 421.
Establishing and controlling construction projects cost through utilization of procedures, techniques and systems commonly used to control resources allocated and to be expended on construction projects.
(1 hour lecture and 2 hours activity) Letter grade only (A-F).

432. Facility Administration (3)
Prerequisite: CEM 374.
Management skills for facility management. Emphasis is placed on the management functions of planning, organizing, directing and controlling. Topics include: negotiation; communication; performance measurement; job enrichment; motivation; contracting services and interpersonal relationships.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

433. Facility Finance Management (3)
Prerequisite: CEM 432.
Analysis of financial management strategies associated with facility management. Topics include: buy-rent considerations; building efficiency; leasing considerations; cost control and record keeping; facility capitalization; facility budgeting; cost/benefit analysis and financial reports.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

434. Facility and Property Management (3)
Prerequisite: CEM 433.
Principles of facility and property management. Topics include: property development, cost-benefit analysis, site selection, architectural design, layout plans, building engineering, specifications, bidding and bidding plans, aesthetic standards, renovation and contracting standards.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

436. Facility Operations Management (3)
Prerequisite: CEM 374.
Analysis of the functions of facility operations management. Topics include: building systems, mechanical systems, energy management, electrical systems, trades operations, grounds maintenance, custodial, furniture and equipment, waste removal, contracting services, furniture standards, security systems and planned maintenance.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

438. Structural Design II (2)
Prerequisite: CEM 304.
Simplified designs for steel and wood structures in accordance with current building codes. Selection of structural steel and wood systems with structural characteristics of members and connections.
(Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

443. Project Development and Design (2)
Prerequisite: CEM 373.
Course addresses the principles of design-build project delivery; use of design-build as a project delivery method; focusing on essential concepts and characteristics, as well as critical elements of the RFO/RFP process and overall project management.
(Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).
476. Construction and Maintenance of Infrastructure Facilities (2)
Prerequisites: CEM 425
Comprehensive coverage of the construction principles and technologies employed by the heavy civil industry. The course covers the construction methods and maintenance practices of heavy civil projects, with emphasis on utility pipes, bridges and roads.
(Lecture 1 hour · Activity 2 hours) Letter grade only (A-F).

485. CEM Senior Seminar (2)
Prerequisites: CEM 429 and 431 or consent of the instructor.
Advanced work of a technical nature within the construction industry. All students will be required to participate into the Bid Propositions.
(Lecture 1 hour, Activity 2 hours). Letter grade only (A-F).

486. Infrastructure Management (2)
Prerequisites: CEM 427, 476 and CL 406.
Integrated approach to infrastructure management theories and practices including tools, models and applied systems. The course presents the principles required to manage, preserve and improve the performance of infrastructure systems, with emphasis on utility pipes, bridges and roads.
(Lecture 1 hour, Activity 2 hours) Letter grade only (A-F).

490. Construction Project Management (3)
Prerequisites: CEM 365, 375, 427, 429 and 431.
This course is a capstone course where integrated project management principles are applied to a case study of an actual construction project. Topics include plans and specifications, site logistics, estimating, planning, scheduling, cost control, and contract administration. Additionally, relationships with owners, designers and other officials are analyzed.
(Lecture/Discussion 3 hours) Letter grade only (A-F).
Undergraduate Programs

Bachelor of Arts in Classics (120 units)

Option in Roman Civilization (code CLSCBA01)

Requirements
41-43 units with a minimum of 21 upper division units
(excluding LAT 302)

1. Elementary Latin – 6-8 units selected from the following:
   LAT 101A and 101B (6) or LAT 300 (6).

   The requirements in this category may be met by high
   school equivalents, but total units must still equal 41.

2. Upper Division Latin – 12 units selected from the
   following: LAT 301, 401, 402, 403, 404, 405, 406, 407,
   408, 409, 410A, 410B, 410C, 490.


4. Additional Courses in Classics – 12 units selected from
   the following: CLSC 100, 101, 110, 130, 300, 312*, 340,
   410, 420, 440, 490.

   * The Department strongly recommends that this course be
   taken in Italy in the Winter Session.

5. Courses in Antiquity – A minimum of 8 units selected from
   the following: GK 101A, 101B; AH 408, 417; CLSC 330I;
   COMM 300; CVL 452**; HIST 131, 314, 318; PHIL 490**;
   POSC 301; RIST 471I.

   ** With topic appropriate to ancient Rome and approval of
   advisor.

Option in Greek Civilization (code CLSCBA02)

Requirements
43 total units with a minimum of 21 upper division units:

1. Elementary Greek - 5-8 units: GK 101A, 101B.

2. Upper Division Greek – 12 units selected from the
   following: GK 301A, 301B, 401, 402, 403, 404, 405, 490.

3. CLSC 201.

4. Additional Classics Courses – 12 units selected from the
   following: CLSC 100, 101, 110, 300, 311*, 340,
   410, 420, 430, 490.

   *The Department strongly recommends that this course be
   taken in Greece during the winter session.

5. Courses in Antiquity – A minimum of 8 units selected from
   the following: LAT 101A, 101B, 300; AH 408, 416; CLSC
   330I; COMM 300; CVL 452**; HIST 131, 314, 318; PHIL
   421, 422, 490**; POSC 301; RIST 471I.

   **With topic appropriate to ancient Greece and approval of
   advisor.
Minor in Classical Studies
(code CLSCUM01)

The Minor offers students majoring in any subject an opportunity to supplement their education with background in the oldest European tradition.

The Minor consists of a minimum of 20 units that must include a minimum of 9 units of upper division coursework selected from the following:

1. Two courses in Latin or Greek, both in the same language.
2. A minimum of two courses from: CLSC 100, 101, 110, 130, 201, 202, 301, 340, 410, 420, 430, 440, 490; CWL 452 (with an appropriate topic); or additional courses in Latin or Greek, not necessarily in the same language as selected in (1).
3. A minimum of two courses from the following: CLSC 311I or HIST 310; CLSC 312I, or HIST 312; CLSC 330; HIST 313, 314; PHIL 421, 422; AH 408, 416, 417; ANTH 140, 450; POSC 301; RIST 471I.

Interested students should contact the Classics Advisor prior to or during the first semester of taking courses toward the Minor.

Minor in Greek (code CLSCUM02)

A minimum of 20 units in Greek which must include four upper division courses. Prospective teachers are strongly urged to take, in addition, HIST 313, CLSC 101, 300I, and other courses touching on the ancient world.

The Minor in Greek is available to any non-Classics major.

Minor in Latin (code CLSCUM02)

A minimum of 20 units in Latin which must include four upper division courses. Prospective teachers are strongly urged to take, in addition, HIST 314, CLSC 101, and 300I, and other courses touching on the ancient world.

The Minor in Latin is available to any non-Classics major.

Single Subject Teaching Credential in Latin (code 156)

The subject matter program in Latin consists of 37 units in Latin and related areas. Completion of these courses meets the subject matter competence requirement for the Single Subject Preliminary Credential in Latin (code 156). Courses taken for subject matter competence for the teaching credential also count toward units needed for the Classics B.A., Option in Roman Civilization. Prospective students should consult the Latin Education Advisor and the Languages Other Than English (LOTE) Program Advisor early to plan their programs.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective teachers of Latin are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.cod.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

Requirements

1. Required courses: LAT 301, 401, 402, 410A, B, C.
2. Seven courses from the following: LAT 403, 404, 405, 406, 407, 408, 409, 490, 499.
3. One of the following: HIST 312I, 314; CLSC 420I, 440; AH 417.

Students are required to keep a portfolio of written work produced in the above classes with instructor comments. Members of the Latin faculty evaluate the portfolio according to established criteria. The credential candidate also takes an exit examination administered by the Latin faculty which will assess pronunciation, speech and conversation, listening and writing, and reading. Credential students also produce a Latin play.

Classics Courses (CLSC)

LOWER DIVISION

100. The Classical World of Greece and Rome (3)
Prerequisite/Corequisite: One GE Foundation course.
Introduction to the literature, language and culture of the ancient Greek and Roman worlds. Use of primary sources, such as drama, epic, inscriptions, and the visual arts to explore issues of gender, mythology, theater, combat and sports, slavery and family.

101. Greek Mythology (3)
Prerequisite/Corequisite: One GE Foundation course.
A survey of the major Greek myths, sagas and tales of gods and heroes, and their influence on later literature, particularly ancient Rome.
Not open for credit to students with credit in CLSC 191.

110. Classical Archaeology (3)
Prerequisite/Corequisite: One GE Foundation course.
Introduction to the study of the material culture of Greece, Etruria and Rome from the Minoans to Constantinople. Covers history of archaeology, chronology and dating systems and analytical methods of material culture including urban planning, construction techniques, and architecture.

130. Women in the Classical World (3)
Prerequisite/Corequisite: One GE Foundation course.
A survey of the roles and status of women in ancient Greece, Rome and Etruria through literature by and about women and other ancient sources. Not open for credit to students with credit in CLSC 135.

201. Ancient Greek Literature (3)
Prerequisite: Completion of GE Foundation requirements.
A survey of the literature of ancient Greece in translation from Homer and Hesiod to Lucian and the novelists (c. 700 BC to AD 400).

202. Latin Literature (3)
Prerequisite: Completion of GE foundation requirements.
A survey of the literature of the ancient Romans in translation, focusing on major authors from Plautus to Augustine (200 BC to AD 650).

280. At Home in the Ancient World (3)
Prerequisite: Open only to Liberal Studies majors in the Integrated Teacher Education Program (ITEP) and to those enrolled in track 1 of the Liberal Studies major.
Interdisciplinary introduction to the concept of 'home' in ancient world, focusing on diversity yet unity of this concept in global context.

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UPPER DIVISION

300L. Pagan Culture (3)
Prerequisites: Completion of Foundation requirement, completion of one or more Explorations courses, and upper-division standing. Examines the mass cultures of the Greek and Roman periods, their worldview, and its philosophic and religious underpinnings through literary, artistic, and archaeological documentary sources. Not open for credit to students with credit in CLSC 310L.

311L. Greek World (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Interdisciplinary examination of the society and culture of ancient Greece emphasizing literature, the arts, and history. Topics include Homer, mythology and religion, lyric poetry, the Persian and Iliac epic poems, the Attic Golden Age, and Greek contributions to the modern world. Same course as HIST 310L. Not open for credit to students with credit in CWL 312L or HIST 310L.

312L. Roman World (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Interdisciplinary examination of the society and culture of ancient Rome emphasizing literature, the arts, and history. Topics include the early Empire, imperial maturity, and Roman contributions to the modern world. Same course as HIST 312L. Not open for credit to students with credit in CWL 312L or HIST 312L.

340. The Underworld (3)
Prerequisite: One course in Classics or consent of instructor.
In-depth investigation of the realm of the dead as given in ancient Greek and Roman myth. Topics include its topography and population, journeys to and interpretations of it. Comparative analysis of ancient myths of the underworld from other cultures.

350. Hollywood Does Rome (3)
Prerequisites: CLSC 100 or 101 or 202 or consent of instructor. An investigation of the filmmaker’s mindset and the methods they have used to portray the ancient Romans from the beginnings of cinema to the present. Topics include the influence of the image, community and society, cultural imperialism, film theory, the ‘language’ of myth, and reception theory. Same course as FIA 350. Not open for credit to students with credit in FIA 350.

380. Ancient Easts (3)
Prerequisite: Completion of GE Foundation or consent of instructor. Survey of food in the Roman Empire and elsewhere in the ancient Mediterranean world. Topics include farming, sustainability, trade, purchasing, processing, production, ingredients, recipes, tools, the place and function of feasts, and food in myth, culture, and philosophy.

410. Law and Literature in the Classical World (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Introduction to the study of philosophy and interpretation of law through classical literature that encompasses fundamental legal questions and ancient legal sources and materials and the application of modern theories of literary criticism to ancient and modern law.

420L. Classical Drama (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses, and upper-division standing.
Examination of the plays of Aeschylus, Sophocles, Euripides, and Aristophanes both as literature and as theater. Includes origins of tragedy and comedy, later Greek and Roman drama, and debt of modern drama to the theater of the Greeks. Not open for credit to students with credit in CLSC 421.

430. Archaeology of Ancient Greece (3)
Prerequisite: one of the following courses: CLSC 110, 330L, ANTH 140, HIST 131, or AH 416/516, or consent of instructor.
The material culture of ancient Greece, from Minoans to Constantine including urban planning, architecture, sculpture, painting, ceramics, burial customs, religious and secular artifacts, epigraphy and numismatics. Examines chronology and dating systems, analytical methods and history of classical archaeology in Greece.

440. Archaeology of the Roman World (3)
Prerequisite: Completion of one of the following: CLSC 110, CLSC 330L, ANTH 131, or HIST 131, or AH 417/517, or consent of instructor.
The material culture of Roman empire, from Villanovans to Constantine including urban planning, architecture, sculpture, painting, ceramics, burial customs, religious and secular artifacts, epigraphy and numismatics. Examines chronology and dating systems, analytical methods and history of archaeology of Roman empire.

490. Special Topics in Classics (1-4)
Prerequisite: Consent of instructor.
Topics of special interest in Classics selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special interest. May be repeated to maximum of 6 units.

GRADUATE LEVEL

598. Directed Readings in Classics (1-4)
Prerequisites: Graduate standing and consent of instructor. Selected topics in Classics or Classical Archaeology will be studied in depth.
A term paper is required. Letter grade only (A-F).

Greek Courses (GK)

LOWER DIVISION

101A. Elementary Greek (4)
Prerequisites/Corequisites: Any Foundation course.
Introduction to ancient Greek, the language of Sophocles, Plato, Aristophanes, Homer and Demosthenes. Forms, syntax and basic vocabulary leading also to a reading knowledge of New Testament Greek. Designed for those beginning a study of ancient Greek.

101B. Elementary Greek (4)
Prerequisite/Corequisite: Any Foundation course. Prerequisite: GK 101A or equivalent.
Continuation of GK 101A.

102. New Testament and Early Christian Greek (1)
Corequisite: GK 101B.
Supplemental graded readings and writing exercises in New Testament Koine Greek and other very early Christian literature such as the Didache and the Epistle of Clement.
Greek Courses (GK)

UPPER DIVISION

General Education Category A must be completed prior to taking any upper-division course except upper-division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

301A-B. Intermediate Greek (3-3)
301A. Prerequisite: GK 101B or equivalent.
301B. Prerequisite: GK 301A or equivalent.
Continued study of the language and culture. Reading and translating selections of classical writers.

401. Homer (3)
Prerequisite: GK 301U or equivalent.
Translation and literary study of selected books of the Iliad or Odyssey.

402. Plato (3)
Prerequisite: GK 301B or equivalent.
Translation and literary study of one or more dialogues of Plato.

403. Tragic Poets (3)
Prerequisite: GK 301B or equivalent.
Reading of a play of Aeschylus, Sophocles or Euripides.
May be repeated to a maximum of 9 units with different topics in different semesters.

404. Historians (3)
Prerequisite: GK 301U or equivalent.
Reading from selections from Herodotus, Thucydides and/or Xenophon.
May be repeated to a maximum of 9 units with different topics in different semesters.

405. Attic Orators (3)
Prerequisite: GK 301B or equivalent.
Reading of a speech of Demosthenes, Antiphon, Andocides, Lysias, Isocrates, Aeschines, Hyperides, Isaeus, Lycurgus, Dinarchus or selections from various orators.
May be repeated to a maximum of 9 units with different topics in different semesters.

490. Special Topics (1-3)
Prerequisites: 12 units of upper-division Greek courses or consent of instructor.
Translation and literary study of the selected works of an author, genre (e.g., oratory) or period (e.g., Hellenistic Greek).
May be repeated to a maximum of 12 units.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special interest.
May be repeated to a maximum of 6 units.

Latin Courses (LAT)

LOWER DIVISION

101A. Elementary Latin (4)
Prerequisite/Concurrent: Any Foundation course.
Introduction to the Latin language as used by Vergil, Cicero, Livy, Catullus, Tacitus, and Juvenal as well as late Latin and medieval writers. Basic forms, syntax, and basic vocabulary leading to a reading knowledge.

101B. Elementary Latin (4)
Prerequisite/Concurrent: Any Foundation course. Prerequisite: LAT 101A or equivalent.
Continuation of LAT 101A.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper-division course except upper-division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

300. Intensive Latin (6)
Equivalent to two semesters of Elementary Latin. Designed for undergraduate and graduate students with little or no knowledge of Latin, whose degree programs require or recommend a reading knowledge of the language.
Not open for credit to students with credit in LAT 101B or LAT 321.

301. Intermediate Latin (4)
Prerequisite: LAT 101B or 300 or equivalent.
Continued study of the language and culture of the ancient Romans. Reading and translating selections of classical writers.

401. Vergil (3)
Prerequisite: LAT 301 or equivalent.
Reading of selections from Vergil's Aeneid, and/or selections from the Georgics and Eclogues.
May be repeated to a maximum of 6 units with different topics in different semesters, which includes previously earned credit in GK 362.

402. Cicero (3)
Prerequisite: LAT 301 or equivalent.
Reading of one or more works of Cicero.
May be repeated to a maximum of 6 units with different topics in different semesters, which includes previously earned credit in GK 351.

403. Latin Lyric and Elegy (3)
Prerequisite: LAT 301 or equivalent.
Reading of selected poems of one or more of the lyric and elegiac poets: Catullus, Horace (Odes, Epodes, Carmen Saeculare), Propertius, Tibullus, and Ovid (Amores).
May be repeated to a maximum of 6 units with different topics in different semesters.

404. Latin Epic (3)
Prerequisite: LAT 301 or equivalent.
Reading of selections from Lucretius' De Rerum Natura and/or Ovid's Metamorphoses.
May be repeated to a maximum of 6 units with different topics in different semesters.

405. Historiography of the Republic (3)
Prerequisite: LAT 301 or equivalent.
Reading of selections from Sallust and/or Julius Caesar.
May be repeated to a maximum of 6 units with different topics in different semesters.

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406. Historiography of the Empire (3)
Prerequisite: LAT 301 or equivalent.
Reading of selections from Livy and/or Tacitus.
May be repeated to a maximum of 6 units with different topics in different semesters.

407. Latin of the Early Principate (3)
Prerequisite: LAT 301 or equivalent
Reading of selections from the following authors and works: Pliny the Younger, Martial, Seneca's letters, Suetonius.
May be repeated to a maximum of 6 units with different topics in different semesters.

408. Roman Comedy (3)
Prerequisite: LAT 301 or equivalent.
Reading of one or more plays of Plautus and Terence.
May be repeated to a maximum of 6 units with different topics in different semesters.

409. Roman Satire (3)
Prerequisite: LAT 301 or equivalent.
Reading of selected satires of Horace, Juvenal, or Persius; the Satyricon of Petronius or the Apocolocyntosis of Seneca the Younger.
May be repeated to a maximum of 6 units with different topics in different semesters.

410A-B-C. Latin Prose Composition (1-1-1)
Thorough instruction in writing Latin prose at the advanced level.
Extensive coverage of syntax and morphology of Latin.
A. Prerequisite: LAT 301 or equivalent. Beginning Latin prose composition.
B. Prerequisite: LAT 410A. Continuation of prose composition.
C. Prerequisite: LAT 410B. Continuation of prose composition.

490. Special Topics (1-3)
Prerequisites: LAT 301 or equivalent.
Translation and study of authors of a particular period (e.g., Medieval Latin) or of a methodological specialty (e.g., Latin epigraphy).
May be repeated to a maximum of 9 units with different topics in different semesters.
A. Medieval Latin

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of special interest.
May be repeated to a maximum of 6 units.
COMMUNICATION STUDIES
College of Liberal Arts

Chair: Sharon D. Downey
Department Office: Academic Services (AS), Room 309
Telephone: (562) 985-4301 or 985-4302


Department Secretary: Wendy Lucas
Haush Center for Communication Skills
Administrative Director: Tim Pfotz
Technical Director: Scott Allon

Undergraduate Programs

Bachelor of Arts in Communication Studies (code COMMA01) (120 units)

The Bachelor of Arts in Communication Studies is designed for students who wish to gain a broad overview of the field of communication studies. Students choosing this program may select coursework from any of the dimensions found in communication, and are exposed to the theory and skills that define the scope and breadth of the discipline.

Requirements

1. Lower Division Requirements: 12 lower division units consisting of COMM 110, COMM 130 or 171, and COMM 131/131W and 200.


3. Elective Courses: An additional 18 units of coursework (of which at least 9 units must be in 400-level courses) are required for the major.

Students must take COMM 200 in their first year of declaring the major.

4. Only courses in which a "C" or better have been earned may be applied to satisfy upper division requirements in the major. Classes taken in which less than adequate grades are received must be repeated until an adequate grade is achieved. Majors will not be permitted to take any upper division courses in the major on a credit/non-credit basis.

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Option in Communication, Culture, and Public Affairs (code COMMBAO02) (120 units)

The Communication, Culture, and Public Affairs Option is designed for students who wish to study the cultural, mass-mediated, and political dimensions of public communication. In this option, students are exposed to course work in multi-cultural communication, performance studies, persuasion, and popular, political and media rhetoric.

Requirements

This option requires 48 units of which 36 are upper division.

All Communication Studies majors, regardless of option chosen, are required to complete the following lower division and upper division core classes.

1. Lower Division Requirements: 12 lower division units consisting of COMM 110, COMM 130 or COMM 171, COMM 131/131W, and COMM 200

*Students must take COMM 200 in their first year of declaring the major

2. Upper Division Core Requirements: 18 upper division core courses consisting of COMM 300, 301, 306, 307, 309, and 330

3. Elective Courses: An additional 18 units of course work (of which at least 9 units must be in 400-level courses) are required for the major.

18 units drawn from: COMM 334, 335, 337, 344, 355, 400, 410, 411, 412, 414, 420, 421, 432, 444, 449, 450, 452, 490 (consult with a communication studies advisor for which 490 course are appropriate for this degree option)

Taking COMM 236 as an elective will count toward graduation, but will not reduce the upper division requirement for the major.

Only courses in which a "C" or better have been earned may be applied to satisfy upper division requirements in the major. Gpa's taken in which less than adequate grades are received must be repeated until an adequate grade is achieved. Majors will not be permitted to take any upper division class in the major on a credit/non-credit basis.

Option in Interpersonal and Organizational Communication (code COMMBAO03) (120 units)

The Interpersonal and Organizational Communication Option is designed for students who wish to prepare themselves for careers in public and private industries requiring well-developed communication skills and a knowledge of interpersonal and organizational behavior. Students choosing this option will study the theoretical and applied aspects of interpersonal and organizational communication as they function in personal and/or professional relationships.

Requirements

This option requires 48 units of which 36 are upper division.

All Communication Studies majors, regardless of option chosen, are required to complete the following lower division and upper division core classes.

1. Lower Division Requirements: 12 lower division units consisting of COMM 110, COMM 130 or COMM 171, COMM 131/131W, and COMM 200

*Students must take COMM 200 in their first year of declaring the major

2. Upper Division Core Requirements: 18 upper division core courses consisting of COMM 300, 301, 306, 307, 309, and 330

3. Elective Courses: An additional 18 units of course work (of which at least 9 units must be in 400-level courses) are required for the major.
of the Graduate Committee is final. Students who are not accepted into the program may not enroll in graduate courses in the Department of Communication Studies. Graduate courses taken through Open University will not apply to the student’s degree program in the Department of Communication Studies.

4. Teaching Assistantships and Graduate Assistantships. Employment as a Teaching Associate or Graduate Assistant falls under the jurisdiction of the Personnel Committee of the Department. The positions pay approximately $350.00 per month. Tuition is not waived. Interested students should send letters of application, transcripts, GRE scores, and three letters of recommendation to: Chair, Department of Communication Studies, California State University, Long Beach, 1250 Bellflower Blvd., MH6-717, Long Beach, CA 90840-2407.

5. Advising. Consult the Graduate Advisor to plan a program of study and to receive information regarding Department procedures prior to enrollment. The Graduate Advisor and/or a faculty mentor will guide students through their program.

General Considerations

1. Requirements

   A. All requirements date from the time at which a student receives approval for Advancement to Candidacy, not from when a student begins graduate study.

   B. The Department requires a minimum of thirty semester hours (including four thesis credits in the Thesis Option) for the Master’s Degree. The University requires a minimum of twenty-four graduate credits to be completed in residence.

   C. Students must either pass the Department’s comprehensive examination or write an acceptable thesis.

   D. The Department expects its graduate students to possess the writing skills necessary for advanced study. Fulfills the Graduation Writing Assessment Requirement (GWAR). Students should fulfill the GWAR no later than the end of the first semester of graduate study. If you believe you have taken an examination equivalent to fulfillment of the GWAR, consult the Graduate Advisor.

2. Prerequisites

   A. Units obtained fulfilling prerequisites or deficiencies do not count toward the minimum of thirty semester hours needed to complete the Master’s degree.

   B. Students must meet all prerequisites before enrolling in graduate courses, except for COMM 541 or 546. Individuals may petition for waiver of this rule prior to registering for courses if compelling reasons warrant such a waiver.

   C. Students must comply with all University regulations outlined in the CSULB Catalog.

Prerequisites

   Individuals with a Bachelor’s degree in Communication Studies (or its equivalent) from a fully-accredited college or university must have approved coursework in:

1. Communication Rhetorical Theory (COMM 300)
2. Communication Criticism (COMM 301)
3. Communication Theory (COMM 306)
4. Measurement in Communication Research (COMM 307)
5. Language and Behavior (COMM 309)

Requirements

1. A minimum of thirty hours of graduate work in Communication Studies distributed as follows:

   These requirements are those listed in the 1996-97 University Catalog and thus are relevant to students advancing to candidacy during or after Fall 1995. For requirements applicable to students advancing to candidacy prior to Fall 1995, consult appropriate University Catalog.

   A. COMM 541 and 546 to be completed prior to advancement to candidacy and preferably within the first semester of graduate work (6 units);

   B. Twelve units consisting of:

      1. COMM 640 and 646 (6 units),
      2. one course selected from COMM 633, 635, 636, 637, 638 or 639 (3 units), and
      3. one course selected from COMM 630, 610, 611, 614, 620, 630, 632, 648, 649, or 650.

   C. Twelve elective units of 500 or 600 level coursework approved by the student’s advisor and the Graduate Committee, including three thesis units (COMM 697) if the student elects the thesis option.

2. A minimum of six graduate units taken from one or any combination of the following areas:

   A. graduate courses from within the Department of Communication Studies;

   B. graduate courses from outside the Department of Communication Studies (maximum of 3 units).

   1. classes taken outside the discipline in a department at California State University, Long Beach require prior approval by the Graduate Committee;

   2. classes taken outside the discipline in a department at another university require approval by the Graduate Committee;

   3. classes taken within the discipline in a department at another university.

3. Completion of the Department’s Comprehensive Examination or of an acceptable thesis.

4. Please note that Internships and student teaching cannot be included in the required thirty units.

Enrollment in Communication Studies 697

COMM 697 (Directed Research) should enable students to study topics and methods not normally available through regular coursework. Persons who choose the Thesis Option MAY NOT use COMM 697 to complete any part of the thesis project; however, COMM 697 may function to develop research proficiencies relevant to the thesis. The policy regarding COMM 697 is:

1. The Graduate Committee will approve the inclusion of COMM 697 in a graduate program only if:

   a. the research topic is not available through regular coursework during the student’s tenure in graduate study;

   b. the student has completed 6 units from the graduate core courses;

   c. the student has been advanced to candidacy or has submitted his or her Graduate Program to the Graduate Advisor.

2. Students may take a maximum of three units of COMM 697.
3. Candidates must secure approval for COMM 697 before taking the course. Prior to the semester of enrollment, students must submit two forms to the Graduate Committee:
   a. "Petition for Directed Research."
   b. an "Agreement for Independent Study Course" signed by the graduate faculty member directing the independent research (obtain this form from the Department office)
4. The Graduate Committee will determine whether the proposed study conforms to the purposes of COMM 697. The faculty member directing the research has the responsibility of judging the student's ability to complete the research and also assigning the grade for the project.
5. Only members of the Department graduate faculty may direct COMM 697.

Advancement to Candidacy

Advancement to Candidacy defines a candidate's program of study and establishes her or him as an official graduate student in the University. Programs must meet the requirements in effect at the time of advancement. Candidates must submit the form for advancement required by the College of Liberal Arts (forms available in the Department office) to the Graduate Committee. Individuals are eligible for Advancement to Candidacy after completing COMM 541 and 546. Students should have an average of "B" or better to be advanced to candidacy. Candidates considering the thesis option should submit a list of ten or more courses, starting (*) the class or classes to be omitted if the thesis option is selected.

1. To qualify for advancement, a person must:
   A. be enrolled in the University during the semester or session he or she requests advancement,
   B. have removed all deficiencies,
   C. have earned a minimum cumulative grade point average of 3.0 (B) for work taken—i.e., graduate courses and undergraduate prerequisites,
   D. have completed six units of graduate core courses with an average of "B" or better,
   E. have fulfilled the Graduation Writing Assessment Requirement.
2. If the student fails to petition for Advancement to Candidacy at the recommended time, he or she must do so at least one semester prior to the semester in which he or she intends to graduate. The deadline each semester is exactly four weeks before the last day of instruction. Do not wait for the deadline! The Graduate Committee may require the student to resubmit a program. Students cannot take the Master's Comprehensive Examination nor enroll in COMM 698 until a program is approved.
3. All submitted programs should indicate the semester in which courses were or will be taken and should report ALL grades in courses completed. No grades of Incomplete (I) or Satisfactory Progress (SP) can appear on the program.
4. If a program contains courses taken outside the Department, a student must obtain approval from the Graduate Advisor and the Graduate Committee before including such courses in her or his course of study. This restriction applies to courses taken at CSULB and to ones transferred from other colleges or universities. Failure to obtain Graduate Committee approval for including such courses prior to enrollment may result in students' taking classes which cannot be included in their programs of study. Candidates must submit the appropriate petition to the Graduate Committee to obtain the necessary approval.

5. After receiving the appropriate form, "Petition for Advancement to Candidacy," the Graduate Advisor will seek approval of the Graduate Committee and the Graduate Dean of the College of Liberal Arts.

Change in Graduate Program

If a student desires to amend her or his program of study after its approval, he or she must submit the College of Liberal Arts "Change of Program" form (available in the Department office) to the Graduate Committee for approval. Approval must be given prior to enrollment in any courses involved in the change; otherwise, the course will not be considered part of the minimum thirty units needed to complete the degree.

Comprehensive Examination Option

1. Comprehensive Examinations are given during the third weeks of November and April for the Fall and Spring semesters, respectively. Students may not take their Comprehensive Examinations during either the Winter or Summer sessions.

2. The following provisions govern the election of the Comprehensive Examination Option:

A. If a student elects the Comprehensive Examination option at the time of approval of her or his Graduate Program, the student may not change to the thesis option except with a special permission from the Graduate Committee.

B. Eligibility: Candidates may take the Comprehensive Examination if they have:
   1) been advanced to candidacy, and
   2) maintained a grade point average of at least 3.0 (B) in courses in the Master's degree program (i.e., graduate classes and prerequisites).

3. Description and Preparation

A. Description. The Examination consists of two sections:
   1) a written section spanning three, three-hour sessions during a single week,
   2) an oral defense, generally held within two weeks of writing the examination. The oral defense permits the student to elaborate on written answers and to answer questions that may develop out of those answers. Other discussions may arise from issues that occur to the examining committee during the oral segment of the Comprehensive Examination.

B. Preparation. Students should prepare for the Examination by beginning their study well before the actual assignment of an examining committee.

Once the Graduate Committee appoints the group, a candidate should meet with his or her Committee Chair to discuss procedures relevant to the Examination. Individuals are responsible for the subject matter of their courses regardless of whom the instructor is. The persons on their committees may or may not be those who have taught the actual seminars taken by the candidates. Professors writing questions are under NO obligation to discuss them with the students. The professors may, however, choose to provide...
candidates with general guidelines to aid in preparation for the Examination. Students should be familiar with all relevant literature integral to a particular area. Because the Examination is "closed book," no notes may be taken into the examination room. Students may obtain bibliographies from individual instructors or from the Graduate Advisor.

4. Student Petitions, Committee Formation, Guidance, and Facilities/Supervision

A. Petitioning. Students must petition to take the Comprehensive Examination no later than the end of the semester prior to the term in which they will write the Examination. Students may not petition to take the Comprehensive Examination until all grades of Incomplete (I) and/or Satisfactory Progress (SP) have been removed.

B. Committee Assignment. The Graduate Committee will consider petitions and assign committees during the last week of the first month of each semester. The examining committee consists of three examiners with one member serving as chair. Each member will compose questions for one of the three sessions of the examination.

C. Guidance. Graduate students taking the Comprehensive Examination should understand that faculty are free to develop questions from the subject areas in which students take courses, including the undergraduate core. Candidates are responsible for the subject matter in those areas whether or not such material is addressed in a particular class. Faculty may, but are not required to, provide guidance about the content for which the student is responsible. Faculty may, but are not required to, provide sample questions, reading lists, and/or assign open-ended questions for study. Furthermore, graduate students should understand that questions normally require integration of material in original ways.

D. Facilities/Supervision

1) The Department will provide rooms in which candidates may write the examination.

2) Students wishing to use computers may bring their own computers, or make arrangements with a specific faculty member to use that person's computer.

3) The Graduate Advisor or his/her designee will be available on each day of the Examination to answer questions and cope with difficulties.

5. Defense, Decision, and Appeal Procedure

A. Each Comprehensive Examination Oral Defense will begin by giving candidates the opportunity to explain any revisions they feel will strengthen their written responses.

B. Decisions of the Comprehensive Examination Committees. Individual members of the Comprehensive Exam Committee have three voting options: Pass, Fail, or Rewrite.

1) Comprehensive Examination Committees may render one of the following decisions:

   - Pass — three votes to pass.
   - Fail — three votes to fail.
   - Rewrite — any other possible combination of votes.

2) If students are required to REWRITE all or part of the Comprehensive Examination, they will be given the opportunity to rewrite only once in the area(s) of deficiency. Students must receive question(s) for revision within three working days of the Oral Defense. The student must respond in writing to the committee member(s) by the final day of instruction of the semester as specified by the University calendar. The committee may require a second meeting during the final examination week to review the student's rewrite and decide whether the student passes or fails the Comprehensive Examination.

3) If the Committee's decision is that the candidate failed the Examination, members shall make themselves available to the candidate to explain their decisions and to facilitate his or her preparation to retake the Examination. A student may petition to retake the Examination no earlier than the semester following that in which she or he has first taken the test. The Examination may be retaken only once.

C. The Department will use the following procedure if a student appeals the decision of a Comprehensive Examination Committee:

1) The Graduate Committee of the Department will serve as the review board to determine whether the appeal has merit on procedural grounds.

2) Members of the Graduate Committee will be ineligible to serve on the review board if they are part of the original examining committee.

3) If such eligibility reduces the membership of the Graduate Committee to fewer than three persons, a replacement will be selected by lottery from among remaining eligible members of the Department faculty.

**Thesis Option**

1. Elected the Thesis Option

A. This option requires a candidate to include three units of COMM 698 (Thesis) in her or his program of study. Students may not enroll in COMM 698 until after Advancement to Candidacy or, in rare cases, when advancement occurs in the same semester as the initial enrollment. Note that the Department facilitates timely Advancement to Candidacy of persons writing a thesis by allowing them to submit an advancement form listing ten courses (30 units) or more and starting (*) the course or courses to be omitted if the thesis option is selected.

B. The "Petition for Permission to Elect the Thesis Option"

1) The candidate must submit the petition to the Graduate Committee through the Graduate Advisor. The form provides space for the signatures of the proposed committee members certifying their willingness to serve on the committee and their approval of the candidate's prospectus. Acceptance of the prospectus by the Thesis Committee certifies both the acceptability of the thesis topic and the willingness of the Committee to direct the student's thesis.

2) The Graduate Committee will not approve the petition until the student completes all requirements in COMM 541 and 546.
C. The Thesis Committee
1) The student is responsible for securing faculty to serve on her or his Thesis Committee. At least two members of a three-person committee or three members of a five-person committee must be tenured-track or tenured faculty from the Department of Communication Studies. Faculty holding parallel status in other departments at CSULB or in other Communication Studies departments in the CSU system may fill the other slots on the committee.
2) The Committee Chair must be a member of the Department’s graduate faculty.

D. The candidate shall prepare a prospectus in consultation with the Thesis Committee Chair and other committee members. The project should be more than a minor extension of a seminar project. It should constitute an original contribution to literature in communication studies and should develop a student’s research abilities. Candidates must submit a completed, approved prospectus to the Graduate Committee no later than the semester prior to that in which the thesis is to be completed.

2. Completing the thesis
A. COMM 688
1) If the “Petition for Permission to Elect the Thesis Option” is approved by the Graduate Committee, a student may not change to the Comprehensive Examination Option except by special permission of the Graduate Committee. If a student has been enrolled for a semester or more in COMM 688, he or she cannot change options under any condition.
2) If a candidate does not demonstrate satisfactory and continuous progress on the thesis after enrolling in COMM 688, the Graduate Committee, on the recommendation of the Thesis Committee and/or the Graduate Advisor, may terminate the student’s graduate program and, if the student is enrolled in COMM 688, at the time, will assign an “F” for the semester.
3) The Department may endorse a petition for one semester of concurrent enrollment in COMM 688 and in another graduate or professional school only if the candidate’s Thesis Committee presents evidence that a draft of the thesis requiring only mechanical revision has been submitted.

B. Neither the Thesis Committee nor the Department is responsible for advising or supervising thesis candidates when they are not enrolled in the graduate program.

C. For thesis specifications and deadlines consult:
1) The University Thesis Reviewer whose office is in the Library;
2) the official thesis document, Master’s Thesis and Projects: Guide to Style and Format;
3) the Thesis Committee;
4) thesis guidelines available in the following manuals:
   a) Style sheets for technical requirements:
      i) Publication Manual of the American Psychological Association, latest edition, or
   b) MLA Handbook for Writers of Research Papers, latest edition

D. Approval of the completed thesis
1) Upon completion of an acceptable thesis, the student will defend the thesis before the Thesis Committee. Other departmental faculty and students may choose to attend. The Chair of the Thesis Committee will make all necessary arrangements for the oral defense and announce its time and place to the Department. The decision of the examining committee is by secret ballot and requires a majority vote. The Committee will notify candidates of their decision immediately after the oral defense. A candidate whose thesis and/or defense does not receive approval may revise and resubmit the thesis and/or defend it no sooner than the following semester. Resubmission or redefense, however, may take place only once.
2) The completed draft of the thesis must meet the approval of the University Thesis Reviewer.
3) Candidates must deposit the thesis in the University Library. Copies are given to the Department Library and to the Chair of the Thesis Committee if requested.

To Graduate
The CSULB Catalog states: “All requirements of the degree program must be completed within seven years of the date . . . . when the first course appearing on the student program was completed. . . . A graduate student who expects to receive a degree at the end of any semester or summer session must be enrolled during that . . . . term and must complete the Request to Graduate Form within the first three weeks of classes of the prior semester. Students completing their degrees in May or in the following summer session should file the application by the preceding October 1. Students completing their degrees January should file by the preceding February 15 at the Admissions and Records Office. . . . Graduate Studies 700 may be used to fulfill the enrollment requirement if the applicant has completed all degree program coursework prior to the semester of graduation.”

Graduate Student Honors
Several honors for graduate students are awarded each year at commencement. In accordance with the Department policy, such honors shall be awarded to deserving students using criteria such as the following:
1. Grade point average
2. Papers published or presented at professional conferences
3. Conventions attended
4. Professional community service not a part of a student’s employment
5. Graduate Communication Association involvement
6. Student Communication Association involvement
7. Departmental service — e.g., volunteer forensics assistant, class lecturer, committee membership
Financial Assistance

Refer to the University Catalog for information regarding financial assistance, which is available on a University-wide basis.

Forms and Petitions

Sample forms and petitions relevant to enrolled graduate students appear in the Appendix of the Graduate Handbook available only to students registered in the Graduate Programs.

Questions

Any questions not answered in these pages should be directed to the Department Graduate Advisor.

Graduate Courses in Communication Studies

Students may apply the following graduate courses in Communication Studies toward the Master's Degree: COMM 531, 541, 546, 590, 600, 610, 611, 614, 620, 630, 632, 633, 635, 636, 637, 638, 639, 640 (540), 646 (690), 648, 649, 650, 651, 657, 659, 668

Undergraduate Core Courses

COMM 300 (440), 301 (439), 306 (446), 307 (230), 309 (446) and 330. Course numbers in parentheses are old course numbers.

Courses (COMM)

LOWER DIVISION

110. Interpersonal Communication (3)
Corquisite: Concurrent enrollment in COMM 110 Workshop.
Lecture: Basic characteristics of processes underlying the formation, maintenance and termination of interpersonal relationships; theoretical and practical implications of those characteristics in various forms of interpersonal communication. Workshop: Planned exercises and activities to develop interpersonal communications skills.
(Lectures 2 hours, Workshop 2 hours). Not open for credit to students with credit in COMM 210.

130. Essentials of Public Speaking (3)
Composition and delivery of speeches to inform and persuade. Logical organization is stressed.

131. Essentials of Argumentation (3)
Corquisite: Concurrent enrollment in COMM 131 Workshop.
Lecture: Theory of argumentation; examination of forms and sources of evidence, inductive and deductive arguments, construction of case briefs, and refutation.
Workshop: Development of thinking abilities with planned exercises and speeches including construction and presentation of arguments, cases, and refutation.

132. Small Group Discussion (3)
Basic principles and techniques of discussion. Relationship of discussion to democratic processes and contemporary society including a study and practice of critical thinking and problem-solving techniques in various group discussion settings.

171. Voice and Applied Speaking (3)
Application of speaking clarity and proficiency, voice quality and pacing, and related communication modification objectives. Speaking process is applied to realize personal, social, and professional verbal communication skills.
Not open for credit to students with credit in COMM 271.

200. Gateway to Communication Studies (3)
Introduction to the academic discipline of communication studies with emphasis on multiple epistemological, theoretical, and methodological issues relevant to the systematic inquiry and pursuit of knowledge about human communication. Letter grade only (A-F).

220. Elements of Organizational Communication (3)
Role of communication in achieving organizational goals; theory and practice of communication in private and public organizations; techniques to enhance understanding in organizations.

236. Forensic Activity (1-3)
Participation in intercollegiate forensic activities. Any student who expects to participate in such activities during the semester should enroll. Specific assignments will be determined in consultation with the staff.
May be repeated to a maximum of 4 units.

UPPER DIVISION

300. Survey of Rhetorical Theory (3)
Prerequisite: Completion of GE Foundation requirements.
A history of major rhetorical theories from the ancient Greeks to the Twentieth century. Theorists include Gorgias, Plato, Aristotle, Cicero, Quintillian, Augustine, Machiavelli, Locke, Marx, Freud, the existentialists, and others.

301. Communication Criticism (3)
Prerequisite: COMM 300.
The analysis and criticism of public communication events including speeches, editorials, advertisements, and mass media from a variety of rhetorical perspectives.

306. Communication Theory (3)
Conceptual perspectives and studies of coding, meaning, thinking, information, and persuasion within interpersonal, group and organizational contexts; theoretical contributions from other disciplines.

307. Measurement in Communication Research (3)
Prerequisites: COMM 306 and completion of University GE requirement in mathematics.
Application of the scientific method to the study of speech communication; examination of the role empirical methodologies play in communication research; fundamental statistical processes. Letter grade only (A-F). (Not open for credit to students with credit in COMM 305).

309. Language and Behavior (3)
Symbolic bases of human communicative behavior; relationship between language and behavior; investigation and analysis of discourse and behavioral effects.

330. Intercultural Communication (3)
Study of the relationship between culture and communication with emphasis given to social, psychological, linguistic and nonverbal variables; problems in the practice of intercultural communication.

331. Argumentation and Debate (3)
Prerequisite: Completion of GE Foundation requirements.
Techniques of argumentation and their application to debate; logic, reasoning and fallacies of reasoning; experience in various forms of formal argument and debate; techniques of debate program administration.

333. Interpretive Communication of Literature (3)
Derivation of meaning in various literary forms and its communicative interpretation to specific audiences.
334. Business and Professional Communication (3)
Prerequisite: COMM 130 or consent of instructor.
Skills and technologies related to the assessment, strategic planning, development, implementation, and evaluation of effective communication in the business and professional setting.

335. Persuasive Speaking (3)
Prerequisites: Completion of GE Foundation requirements.
Skills necessary for advanced public speaking in various venues including legislative, legal, and ceremonial public address; explores various theories of persuasion including speaker credibility, emotional appeals, of evidence and argument, style in language, delivery and audience analysis skills.

336. Forensic Activity (1-3)
Participation in intercollegiate forensic activities. Any student who expects to participate in such activities during the semester should enroll. Student's specific assignments will be determined in consultation with the staff.
May be repeated to a maximum of 4 units.

337. Conference Management (3)
Organization and direction of professional, business and political conferences or conventions; program simulation; leadership and participation in decision making and parliamentary sessions.
May be repeated to a maximum of 6 units.

338. Ensemble Interpretive Reading (3)
Programming and presentation of prose, poetry and drama by an ensemble of readers. Emphasis is placed on experimental presentations and on the development of analytical insight into literary forms.

344. Theory and Techniques of Interviewing (3)
Theory and techniques of oral communication in the process of interviewing. Practical application in employment, information gathering, and persuasive interviewing.

352. Story Telling (3)
Cultural heritage in story telling: analysis of story types for oral presentation, techniques of preparation, presentation, and listening.

355. Communication in the Classroom (3)
Designed for prospective teachers, communication theories, and skills applicable to the teaching of speech communication; focus on communication strategies that contribute to greater student learning; develop an instructional package for teaching speech communication.

358. Speech Arts for Children (3)
Use of creative dramatics, improvisations, puppetry, choral speech, radio, television and group discussion for the purpose of developing fluency, responsiveness and imagination in children. Integration of speech arts activities with curricular subjects will be stressed. Opportunity to apply the theories in actual situations.

400. Nonverbal Communication (3)
Prerequisites: COMM 110 Lecture.
Basic characteristics of the nonverbal elements of human communication in the oral communication setting.

410. Advanced Concepts in Interpersonal Communication (3)
Prerequisites: COMM 110 and 307.
Systematic and symbolic interaction approaches to interpersonal communication; consideration of interpersonal needs, self-disclosure, understanding, interpersonal perception, interpersonal attraction, and social conflict; role and performance-centered theories of interpersonal communication.

411. Communication in Conflict Resolution (3)
Prerequisites: Completion of GE Foundation requirements, completion of one or more Explorations courses, and upper division standing.
Analytical investigation of the nature and dynamics of interpersonal conflict; approaches to the study and understanding of conflict management as examined from intrapersonal, interpersonal, intragroup, organizational, and international perspectives.

412. Gender and Communication (3)
Prerequisites: Completion of GE Foundation requirements, completion of one or more Explorations courses and upper division status.
Survey of theories and research literature to increase students understanding of and familiarity with major issues regarding communication between men and women in various contexts.

414. Communication in Families (3)
Prerequisites: COMM 307.
Role of communication in families: theoretical perspective of family interaction, current family issues, intercultural aspects of family interaction, effects of changing career family roles, and intergenerational interaction.
Letter grade only (A-F).

415. The Rhetoric of Dissent (3)
Examines goals, strategies, and effects of groups that form to advocate social, political, and/or moral change. Focuses on how (opposition) groups communicate messages, and how institutions of power (establishment) respond in order to control or resist change.

420. Advanced Concepts in Organizational Communication (3)
Prerequisites: COMM 220 and 307.
Philosophy, methods and designs for studying the communication systems of complex organizations; organizational communication needs assessment, methods for developing and improving communication in organizations are examined.

421. Communication in Bargaining and Negotiation (3)
Prerequisites: COMM 307.
Role of communication in the decision-making process of negotiation and bargaining; emphasis on the functions of communication in resolving disputes through bargaining.

422. Media Effects (3)
Prerequisites: Upper division standing and completion of Foundation Level GE courses.
Introduces students to the study of the effects of mass communication by examining some of the classic studies in the field of communication as well as exploring contemporary cultural, social, political and psychological effects of the mass media.

430. Advanced Concepts in Intercultural Communication (3)
Prerequisites: COMM 350 or consent of instructor.
Continued study of communication processes involved in interaction between people from different cultural groups; exploration of culturally variable means of thinking and behaving, and study of social psychological processes affecting all forms of intergroup interaction.
Letter grade only (A-F).

432. Communication Leadership (3)
Development of leadership skills in problem-solving communication environments; leadership theories, strategic and techniques of problem-solving and decision making.

433. Trends in Interpretive Communication (3)
Trends and issues in the theoretical and historical development of oral interpretation as applied to current times.

434. Advanced Oral Presentation Skills (3)
Prerequisite: Completion of General Education foundation courses; one or more General Education Exploration courses; and upper-division standing.
Development of advanced skills in oral presentations, including audience analysis, presentation technologies, and multimedia applications. Special consideration paid to research and critical analysis of written and oral presentation content and delivery.
Letter grade only (A-F).
436. Communication Strategies of American Speakers (3)
Prerequisites: COMM 300 and 301.
Comparison and contrast of famous American speakers and their techniques, effects, and environments from the colonial period to present.

437. Communication Strategies of International Speakers (3)
Prerequisites: COMM 300 and 301.
Comparison and contrast of famous international speakers and their techniques, effects, and environments from Demosthenes and Churchill to Hitler and Ghaddafi.
Letter grade only (A-F).

439. Communication and Popular Culture (3)
Examines the relationship between communication and popular culture in the public sphere. The course aims at improving students' abilities to respond critically to everyday mass social messages.
Letter grade only (A-F).

441. Issues in Freedom of Communication (3)
Prerequisites: Upper division standing and completion of Foundation Level GE Courses, and at least two Exploration Courses. Recommended COMM 331 or COMM 335.
The evolution and impact of First Amendment rights on American society and its political system. Emphasis on the evolution of the First Amendment and electronic media, and the application of case laws that deal with religion, speech, press, and assembly. Recommended for pre-law students.

442. Campaign Persuasion (3)
Prerequisites: Completion of GE Foundation requirements, upper division standing, and at least two Exploration Level Courses. It is recommended that one be COMM 331 or COMM 335.
Examination of persuasive communicative strategies in political campaigns, including campaign speeches, commercials, media, media coverage, image-building, audience analysis through polling, and fund raising.

444. Communicating Civility (3)
Prerequisites: Upper division standing and completion of Foundation Level GE courses.
Examines codes of "civilized" communication behavior historically and analytically. Identifies what it means to be an ethical and responsible communicator in today's society, and appreciates professional and personal protocols for everyday use.
Letter grade only (A-F).

449. Studies in Oral Persuasion and Attitude Change (3)
Attitude formation and change through oral communication; factors in persuasion; problems determining the effects of persuasive messages; source credibility, message variables, and personality factors in the process of persuasion.

450. Communication Training in Organizations (3)
Nature and role of communication training in a variety of social, educational, and business organizations; the goals, structure, and impact of communication effectiveness programs are examined; audiovisual aids and communication training techniques emphasized.

452. Communication in the Multinational Organization (3)
Communication patterns in multinational and multicultural organizational settings: the nature and impact of different organizational structures, value systems, and cultural norms in relation to productivity, employee and organizational obligations and expectations.

490. Special Topics in Speech Communication (3)
Topics of current interest selected for intensive study in communication. May be repeated to a maximum of 6 units with different topics. Topics announced in the Schedule of Classes.
A. Hip Hop Criticism

492A-B. Internship (3-3)
Prerequisite: "Permit" required to enroll with consent of instructor; open only to senior majors. At least 120 hours with cooperating organizations on- or off-campus. Work directed and evaluated by instructor in consultation with supervisor of the participating organizations. Assignments will be varied.
Credit/No Credit grading only. COMM 492A is for unpaid Internship. COMM 492B is for paid Internship.

495. Service Learning Internship (3)
Prerequisites: Communication Studies Major with Senior Standing; minimum 3.0 GPA for all college coursework taken; COMM 130 or 335 or their equivalents, COMM 352 or 355 or 356, or the consent of instructor.
Application of academic knowledge of communication skills in the community, public speaking, listening, interpersonal communication, group communication, multicultural communication, and interviewing skills training (1) to students in K-12 schools or (2) to persons in the public sector.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

499. Special Studies (1-6)
Prerequisites: "Permit" required to enroll. Open to upper division students or graduate standing and consent of instructor. Approved "Agreement for Independent Study" must be on file with the Department prior to enrolling in this course.
Individualized laboratory or library research selected in consultation with instructor. Written report of the research is required. Not acceptable for graduate credit toward the master’s degree.

GRADUATE LEVEL

531. Administering the Forensic Program (3)
Prerequisite: "Permit" required to enroll with consent of instructor. Principles of constructing and administering a forensic program, including recruiting, squad direction, budgeting, tournament policies, and current literature on forensics direction.
Letter grade only (A-F).

541. Rhetorical Theory and Criticism I (3)
Introduction to research in rhetorical studies. Examination of major figures and schools of thought on rhetorical theory and criticism from the Pre-Socratics through the contemporary modern British era.

546. Communication Theory and Research I
Examination of theories and research in social cognition, interpersonal, small group, organizational, intercultural, mass, instructional, language and behavior, and nonverbal communication. Critical analysis of empirically-based articles in the field. Social scientific research proposal required.
Letter grade only (A-F).

590. Special Topics in Speech Communication (3)
Prerequisite: Consent of instructor. Investigation of topics of current interest and concern to students in communication and allied areas.
Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics, but no more than 3 units may count toward the master's degree in speech communication.

600. Seminar in Nonverbal Communication (3)
Prerequisite: COMM 546 or consent of instructor.
Review and analysis of theoretical writings and critical studies in nonverbal communication; the relationship of nonverbal behavior to oral communication.
Letter grade only (A-F).

610. Seminar in Interpersonal Communication (3)
Prerequisite: COMM 546 or consent of instructor.
Current theories and research in interpersonal communication.
Letter grade only (A-F).
611. Seminar in Negotiation and Conflict Resolution (3)
Prerequisites: COMM 411 or 421 and 546 or consent of instructor.
Investigation, analysis, and criticism of the nature, development, and
dynamics of conflict and the role of negotiation in interpersonal,
group, organizational, and international and intercultural
communication; study and understanding of conflict management.
Letter grade only (A-F).

614. Gender and Family Research (3)
Major theoretical perspectives on the role of communication in family
and gender issues; epidemiological, conceptual, and methodological
issues in researching family and gender communication.
Letter grade only (A-F).

620. Seminar in Organizational Communication (3)
Prerequisite: COMM 546 or consent of instructor.
Theories and models of communication in large organizations;
design and management of organizational communication systems.
Letter grade only (A-F).

625. The Dark Side of Communication (3)
Prerequisite: COMM 546 or consent of instructor.
Examines communication interactions that are difficult, distressing,
and disruptive in personal and/or professional relationships in order
to gain insight into better ways of managing these interactions and to
examine the theoretical bases of what is viewed as “normal” forms of
relating.
Letter grade only (A-F).

630. Seminar in Intercultural Communication (3)
Prerequisites: COMM 541 and 546 or consent of instructor.
Analysis of cultural influences on interpersonal communication;
emphasis given to cultural values, perception, social organization,
to language and nonverbal codes; development of strategies of
effective intercultural communication in international and domestic
settings.
Letter grade only (A-F).

632. Seminar in Small Group Communication (3)
Prerequisite: COMM 546 or consent of instructor.
Research in small group discussions.
Letter grade only (A-F).

633. Seminar in Interpretive Communication (3)
Prerequisite: COMM 541 or consent of instructor.
Theories of communicative interpretation of literature, with emphasis
on the theory and evaluation of oral presentation of literature as art
form and pedagogical instrument.
Letter grade only (A-F).

634. Performance and Ethnography (3)
Students use ethnographic methods to explore the relationship
between culture and performance. Students choose a community,
conduct fieldwork and collect/collect/film stories in order to better
understand a particular population.
Letter grade only (A-F).

635. Seminar in Communication Criticism (3)
Prerequisite: COMM 541 or consent of instructor.
Critical theories of rhetoric and major systems of communication
criticism; development of criteria and approaches for the evaluation
of select communication acts and contexts.
Letter grade only (A-F).

636. Seminar in American Public Communication (3)
Prerequisite: COMM 541 or consent of instructor.
Studies of American rhetorical events and their social, political and
intellectual settings; application of rhetorical theory in the analysis of
these events.
Letter grade only (A-F).

637. Seminar in International Public Communication (3)
Prerequisite: COMM 541 or consent of instructor.
Studies of international rhetorical events and their social, political, and
intellectual settings; application of rhetorical theory in the analysis of
these public communication events.
Letter grade only (A-F).

638. Seminar in Greek and Roman Public Communication (3)
Prerequisite: COMM 541 or consent of instructor.
Studies of Greek and Roman rhetorical events and their social,
political and intellectual settings; application of rhetorical theory in the
analysis of these events.
Letter grade only (A-F).

639. Seminar in Communication and Popular Culture (3)
Prerequisite: COMM 541 or consent of instructor.
Survey of literature on rhetoric, critical studies, and popular culture to
provide a basis for investigating communication in popular culture.
Letter grade only (A-F).

640. Rhetorical Theory and Criticism II (3)
Prerequisite: COMM 541.
Examination of major figures and themes in rhetorical theory and
criticism in the contemporary era.

646. Communication Theory and Research II (3)
Prerequisites: COMM 501 (or equivalent) and 546.
Empirical research methodologies applied to communication
research; theory and design of scientific research; analysis of
findings, computer applications; research report required.

649. Seminar in Language and Behavior (3)
Prerequisite: COMM 546 or consent of instructor.
Contemporary theorems and models in linguistic, psycholinguistic and
sociolinguistic research; communication discourse and speech acts
analysis.
Letter grade only (A-F).

649. Seminar in Persuasion and Attitude Change (3)
Prerequisite: COMM 546 or consent of instructor.
Contemporary theories and models of persuasion; structure and
relationships of beliefs, values and attitudes; methods of assessing
persuasive effects; analysis of research literature.
Letter grade only (A-F).

650. Seminar in Instructional Communication (3)
Prerequisites: COMM 541 and 546 or consent of instructor.
Designed for teachers/trainers, the course will identify communication
variables and strategies which contribute to greater student/client
learning as well as greater satisfaction with the learning process.
Students will develop an instructional/training package.
Letter grade only (A-F).

697. Directed Research (1-6)
Prerequisites: COMM 541 and 546; authorization of the department
Graduate Advisor, Agreement for Independent Study Course form,
consent of instructor.
Directed research leading to the definition and discussion of a
selected problem or issue in communication and the presentation of
research results in a formal paper submitted to the department.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

698. Thesis (2-4)
Prerequisites: COMM 541, 546, 640 and 646; authorization of the
department Graduate Advisor, Agreement for Independent Study
Course form, consent of instructor.
Preparation, completion and submission of an acceptable thesis in
partial fulfillment of the requirements for the Master's degree.
Credit/No Credit grading only.

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COMMUNICATIVE DISORDERS
College of Health and Human Services

Undergraduate Programs

Bachelor of Arts in Communicative Disorders (code CD_BA01) (120 units)

Students desiring a Bachelor of Arts degree in Communicative Disorders must complete the following required courses:

Lower Division: C D 261, 271; PSY 210 or equivalent.

Credential for Service in Public Education – Clinical-Rehabilitative Services, Speech-Language Pathology Credential (code 912)

Candidates must:
1. Complete the master’s degree in speech-language pathology.
2. Complete EDSP 350 and 564; C D 483, 489, 666A (Field Experience(s) in order to complete 100 contact hours as a Language, Speech and Hearing Specialist trainee in the school setting).

Graduate Programs

Master of Arts in Communicative Disorders (code CD_MA01)

Admission to the Graduate Program

Enrollment in 500/600 level courses in communicative disorders is restricted to students who have been accepted to the graduate program of the department as unconditionally classified students. Students wishing to be admitted must complete the following procedures:
1. Students must meet the criteria for acceptance by the University as a graduate student.
2. Every student (new or continuing) must apply to the Office of Admissions and Records to obtain admission to the University with graduate standing.
3. Every student then must apply to the Department of Communicative Disorders for admission to the graduate program using the department application form. This form must be filed with the graduate advisor by March 1 for admission in the subsequent fall semester. The following supportive materials must be filed with the department admission application:
   A. Change of objective form available at department office (continuing CSULB students only);
   B. Official transcripts of all undergraduate and graduate work. (These transcripts are in addition to those required by the Office of Admissions and Records.)

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These transcripts should reflect the following minimum criteria:
(1) a GPA of 3.0 or better in the last 60 units of coursework; and
(2) confirmation of acceptable GPA obtained during the final semester.
C. One-page summary of relevant work, volunteer or research experience, with name and contact information for corroborating professional.
D. Submission of GRE scores
NOTES: Course deficiencies will be determined by the department graduate committee after consultation with the student and the student's faculty advisor. Students applying to the graduate program in Communicative Disorders will have completed one of the two prerequisites listed in the respective section prior to enrollment in graduate classes.

Prerequisites
1. A bachelor's degree from an accredited institution with a major in communicative disorders (speech and hearing science, etc.); or
2. A bachelor's degree from an accredited institution in a discipline other than Communicative Disorders. The applicant must have at least 35 units of course work in CD before applying for admission to the graduate program. If the student has not completed sufficient units or courses to meet this requirement, he/she may enroll in the University as a conditionally classified graduate student to complete the required undergraduate courses prior to applying to the Graduate Program in Communicative Disorders.

Although the student may apply to the Graduate Program with a minimum of 33 units in Speech-Language-Hearing, all courses required for the B.A. in Communicative Disorders at CSULB (with the exception of C D 431 and 432), or equivalent courses, must be completed before the M.A. in Communicative Disorders will be awarded.

Advancement to Candidacy
In order to be advanced to candidacy for a Master's degree, a student must meet the following criteria:
1. enrollment in the semester or summer session in which advancement takes place;
2. satisfactory completion of C D 696 and three additional units;
3. satisfactory fulfillment of the CSULB Graduation Writing Assessment Requirement (GWAR). The GWAR must be fulfilled before the student is advanced to candidacy;
4. maintenance of a GPA of at least 3.0 in (a) all graduate work completed in Communicative Disorders, (b) all graduate work completed at CSULB, and (c) all graduate work transferred to meet graduation requirements with no grade below "C";
5. filing of the student Program for the Master of Arts Degree in Communicative Disorders after completion of items 2-5;
6. the department's standard written program of graduate courses approved by the student's department advisor, the department graduate advisor, the department chairperson, and the College of Health and Human Services Associate Dean. (This form is known as the Advancement to Candidacy form.)

Requirements
Forty-one (41) units of course work are required: C D 696, 662, 663, 665, 666, 667, 669A, 699B, 699C, 699F, 699G, 699K, 699L, C D 670 or C D 665A, and C D 698 or 698 (Comprehensive Examinations) plus a three-unit elective. Within the context of the C D 669L clinical course, the student will complete a minimum of 25 hours of clinical experience under appropriate supervision with a client determined to be of a language or dialect different from that of the student clinician. C D 485 and 489 and/or C D 463, or equivalent content, are prerequisite to C D 669L. Students who are bilingual and biliterate in English and another language may be eligible for clinical practice during their clinical language, within the CD 669L practicum.

Regulations governing the preparation and eligibility for the administration of comprehensive examination options are available in the Department Office. Departmental regulations concerning preparation of theses are also available in the office.

Courses (C D)

LOWER DIVISION
60. Special Topics (1)
Prerequisite: Consent of instructor.
Speech, language and hearing therapy to students enrolled in the University.
May be repeated to a maximum of 2 units.

260. Introduction to Communicative Disorders (3)

261. Anatomy and Physiology of the Speech and Hearing Mechanism (3)
Anatomical, physiological, and neurological components of the speech and hearing mechanism. Designed for students planning to enter the clinical program in communicative disorders.
Letter grade only (A-F).

271. Phonetics (3)
Phonetic basis of speech sounds and the various factors which influence pronunciation. Consideration is given to linguistic variations, regional dialects and standards.
Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours.)

UPPER DIVISION
329. Introduction to Language Acquisition (3)
Prerequisite: A grade of "B" or better in C D 271 for majors only.
Introduction to the study of the acquisition of first and second languages. Linguistic perspectives on the development of phonological, syntactic, semantic, and pragmatic aspects of language. The influence of developmental stages and social and cultural factors on the individual.
Letter grade only (A-F). (Same course as LING 329. Not open for credit to students with credit in LING 329.)
330. Speech and Hearing Science (3)
Prerequisite: A grade of "B" or better in C D 261 and 271.
Examination of the anatomical, physiological, psychological, and acoustic aspects of speech. Through readings, discussions, videos, and interactive software the student is expected to become more aware and analytical of the instrumentation and scientific basis of production and perception of speech.
Letter grade only (A-F). (Lecture/discussion)

373. Audiology I (3)
Prerequisite: A grade of "B" or better in C D 261.
Introduction to audiology; acoustics, anatomy and physiology of the ear, pure-tone audiometry/masking, speech audiometry/masking, principles of taking a case history, and report writing.
Letter grade only (A-F), (Lecture)

431. Pediatric Audiology (3)
Prerequisite: A grade of "B" or better in C D 261 and 373.
Sources of hearing impairment (HI) in children birth through school age. Nature of HI in children and effects on communicative function. Procedures for identification (screening), assessment, and intervention (including parent counseling) for HI children.
Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours)

432. Audiology II (3)
Prerequisite: A grade of "B" or better in C D 373.
Anatomy/pathology/evaluation of the (1) outer and middle ears, (2) inner ear, (3) central auditory system, and (4) functional hearing loss, taking case history and report writing.
Letter grade only (A-F), (Lecture)

440. Aural Rehabilitation for the Hearing Impaired (3)
Prerequisite: A grade of "B" or better in CD 373 and 431 or 432.
Nature of hearing impairment and impact on communicative function. Procedures for assessment and management of hearing loss, including amplification, counseling, and self-report scales. Focus is primarily adult clients but will include some information regarding children.
Letter grade only (A-F).

456. Speech Pathology I: Disorders of Phonology (3)
Prerequisite: A grade of "B" or better in C D 261, 271.
Etiology, assessment and treatment of disorders of phonology.
Letter grade only (A-F), (Lecture)

460. Speech and Language Assessment of Linguistically and Culturally Diverse Clients (3)
Prerequisite: A grade of "B" or better in C D 271.
Provides understanding of non-discriminatory assessment process for linguistically and culturally diverse clients referred for speech-language assessment. Includes information relative to cultural differences, use of interpreters/translators, biases of assessment, and differential diagnoses, such as language disorder versus language difference.
Letter grade only (A-F).

462. Speech-Language Pathology Assistant (SLPA) Practicum (3)
Prerequisite: At least 33 units in communicative disorders completed with a grade of "B" or better.
For students interested in receiving a license to work as a SLPA.
Weekly lectures covering the laws, practices and ethics governing SLPAs and 70 hours of supervised undergraduate clinical practicum.
Letter grade only (A-F).

466. Speech Pathology II: Speech Motor Disorders (3)
Prerequisite: A grade of "B" or better in C D 261, 271, and 330.
Etiology, assessment, and therapy for disturbances of the speech motor system with emphasis on the neuroanatomical, neurophysiological, psychological, and linguistic variables correlated to aberrant behaviors.
Letter grade only (A-F).

472. Alternative and Augmentative Communication (3)
Prerequisite: A grade of "B" or better in C D 261 and 329.
An understanding of relevant topics in alternative and augmentative communication (AAC); assistive technology (AT); assessment and management of patients with severe communication impairments. Topics will include a variety of disabilities in both pediatric and adult patients, across varying communication environments.
Letter grade only (A-F).

476. Speech Pathology III: Disorders of Voice/Oro-facial Mechanism (3)
Prerequisite: A grade of "B" or better in C D 261 and 329.
Processes of phonation and resonance and their application to etiology, diagnosis and therapy of functional and organic voice disorders, such as those arising from laryngeal pathology, vocal abuse, neurological impairment, auditory impairment and oro-facial abnormalities.
Letter grade only (A-F).

477. Disorders of Swallowing (3)
Prerequisite: A grade of "B" or better in C D 261.
Anatomy, physiology, and neuroanatomy of normal swallowing. Neurological and oncologic disorders which affect the swallow process. Evaluation of the patient with dysphagia will include clinical and instrumental analysis. Treatment plans based on history and evaluative results will be designed and examined.
Letter grade only (A-F).

481A. Speech Pathology IV: Disorders of Language (3)
Prerequisite: A grade of "B" or better in C D 271 and 329.
An analysis of the components of language and how each is involved with language disorders in children. Provide for the understanding and recognition of variables for the assessment and clinical management of such children.
Letter grade only (A-F).

481B. Speech Pathology IV: Disorders of Language Neuropsychopathologies (3)
Prerequisite: A grade of "B" or better in C D 261 and 329.
Neurophysiological and neurolinguistic basis for language and speech disorders associated with central nervous system pathologies. Provides for the recognition and understanding of variables for the assessment and clinical management of such disorders.
Letter grade only (A-F).

483. Assessment of Monolingual and Bilingual Clients (3)
Prerequisite: A grade of "B" or better in C D 261, 271, 329, and 330.
Principles underlying assessment procedures in speech language disorders for both monolingual and bilingual clients. Focus is on the cultural and linguistic variables affecting standardized and non-standardized assessment procedures.
Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours)

489. Management of Monolingual and Bilingual Clients (3)(4) (3)
Prerequisite: A grade of "B" or better in C D 456, 466, 476, 481A, 481B, and 483. C D 456, 466, 481A, and 481B may be taken concurrently.
Management of speech and language disorders for monolingual, bilingual, and/or bicultural clients. Relationship of assessment to management, formulation of goals, objectives, task analyses and maintenance. 20 hours observation in schools, campus clinic, and hospital/rehabilitation settings.
Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours)
491. Proctoring in Communicative Disorders (2-3)
Students shall engage in peer teaching and examination scoring in undergraduate courses under the specific direction of the course instructor.
Open only to students who have achieved the grade of "A" in the courses in which they are serving as proctor. May be repeated to a maximum of 6 units.

493. Directed Studies in Communicative Disorders (1-3)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member. May be repeated to a maximum of 6 units. Not acceptable for graduate credit toward the master's degree.

GRADUATE LEVEL

530. Audiological Instrumentation (3)
Prerequisite: Consent of instructor.
Acoustical devices, psychoacoustics, calibration of pure tones and speech audiometers, sound field calibration, industrial audiology, and noise measurement. (Lecture 1 hour, laboratory 3 hrs.) Lottt grade only (A-F).

574. Hearing Aids (3)
Prerequisite: Consent of instructor.
Electro-acoustic characteristics, hearing aid evaluation in children and adults, probe tube measurements, earmolds, binaural hearing aids, CROS and its modifications, batteries, assistive listening devices, hearing aid orientation and counseling, cochlear implants, classroom amplification and acoustics, hearing aid dispensing.

590. Advanced Topics and Current Issues in Communicative Disorders (1-3)
Selected topics from the most recent developments and issues in speech-language pathology and audiology. Course content will vary with each offering. May be repeated to maximum of 3 units with different topics. Topics will be announced in the Schedule of Classes.

662. Seminar in Language Disorders in Children (3)
Prerequisite: C D 461A, 466.
Components of language, cognitive and perceptual abilities and communication are examined in children with normal and impaired language development. Major approaches to language intervention are discussed. Lottt grade only (A-F).

663. Seminar in Disorders of Phonology (3)
Prerequisite or corequisite: C D 496.

664. Seminar in Disorders of Voice and the Oro-facial Mechanism (3)
Prerequisites: C D 470, 496.
Selected problems in voice disorders through an investigation of the literature and clinical research. Lottt grade only (A-F).

665. Seminar in Language Disorders in Adults (3)
Prerequisite: C D 4810, 496.
Provides an understanding of neuropsychological substrates of language disorders in adults resulting from brain damage. Provides for the recognition and assessment of the syndromology and clinical aspects of adult language disorders relative to current research. Lottt grade only (A-F).

666. Seminar in Speech Motor and Swallowing Disorders (3)
Prerequisites: C D 466, 496.
Historical and current research and its effect upon the assessment and management of speech motor and swallowing disorders. Letter grade only (A-F).

667. Seminar in Autism Spectrum Disorders (3)
Prerequisites: C D 496; prerequisite or corequisite: C D 463 and consent of instructor.
Professor conducts assessment of aphasia, assessment and management of therapy, under supervision, with clients in the university speech and hearing clinic. Students handle all aspects of clinical program including initial interviews, parent counseling, and testing. Letter grade only (A-F).

668. Clinical Practice – Autism Spectrum Disorders (2)
Prerequisite: C D 467.
Provides students with the opportunity to gain hands-on experience in assessing and managing clients diagnosed with Autism Spectrum Disorders. Letter grade only (A-F). (2 hrs lecture, 2 hrs clinic)

669. Clinical Practice with Language Delayed/Disordered Children (2)
Prerequisites: C D 463, 496; prerequisite or corequisite: C D 466 and consent of instructor.
Students provide assessment and management of preschool and school-age children with identified delays/disorders. Under supervision, the practicum includes standardized and non-standardized assessment, parent interviews and conferences, development and implementation of a management program and report writing. Letter grade only (A-F).

670. Clinical Practice with Voice and Oro-facial Mechanism Disorders (2)
Prerequisites: C D 463, prerequisite or corequisite: C D 464 and consent of instructor.
Student conducts therapy sessions under supervision for persons with functional and/or organic voice disorders. Practicum includes initial interviews, diagnostics, therapy program planning, counseling and report writing. Letter grade only (A-F).

671. Clinical Practice with Speech Motor Disorders (2)
Prerequisites: C D 496, prerequisite or corequisite: C D 466 and consent of instructor.
Assessment planning and management in a supervised clinical experience with persons who have speech motor disorders. Letter grade only (A-F). (2 hrs lecture, 2 hrs clinic)

672. Clinical Practice in Audiology (2)
Prerequisites: C D 431, 432, 440, and consent of the instructor.
Student will conduct individual and group therapy with hearing impaired clients, as well as audiological evaluation of hearing impaired persons. Letter grade only (A-F).

673. Clinical Practice-Special Programs (2)
Prerequisites: At least one of the C D 669A through 669G courses. Specialized practicum to obtain experience with speech, language, and hearing disorders. May be repeated to a maximum of 4 units. Letter grade only (A-F).
669J. Clinical Practice with Language Disordered Adults (2)
Prerequisites: C D 489; prerequisite or corequisite: C D 665 and consent of instructor.
Student conducts clinical management sessions, under supervision, for adults with neurological language disorders.
Practicum includes initial interviews, assessment, management program planning, counseling and report writing, and application of research findings to the clinical process.
Letter grade only (A-F).

669L. Clinical Practice with Linguistically Different Clients (2) F, S
Prerequisites: 1) Completion of all disorder-specific graduate seminars; 2) completion of a minimum of 3 core clinics (CD 609 A-J; 3) CD 483 and 489, or equivalent as approved by the instructor) and consent of instructor.
Assessment/management of speech-language disorders in clients whose native language is different than that of the clinician.
Training of bilingual interpreters.
Minimum 25 clock hours required. Letter grade only (A-F).

670. Internship in Speech and Language Pathology (5)
Prerequisites: C D 665A or C D 665F, G, and J with a GPA of 3.0.
Advanced clinical supervised practice with speech and language disordered persons in either a hospital, rehabilitation agency or speech and language center.
Letter grade only (A-F).

673. Assessment of Outer, Middle, and Inner Ears (3)
Prerequisite: Consent of instructor.
Advanced masking concepts, anatomy/physiology/pathology of the outer-middle-inner ears, immittance testing, calibration of immittance meters, functional hearing loss.
Letter grade only (A-F).

674. Seminar in Audiology: Current Topics in Hearing and Hearing Aid Evaluation (3)
Prerequisite: Consent of Instructor
Review of literature regarding contemporary topics. Focus on amplification (e.g., hearing aids), assessment and management of hearing loss in adults and children. Emphasis on student participation and collaboration. Literature review and presentation required.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

675. Assessment of Central Auditory Nervous and Vestibular Systems (3)
Prerequisite: Consent of instructor.
Anatomy/physiology/pathology of the 8th cranial nerve, vestibular system, brainstem, and central auditory system; auditory evoked potentials, calibration of auditory evoked systems, tone decay; BERA, ABR, electroneystagmography, functional hearing loss.
Letter grade only (A-F).

679. Practicum in Audiology (2-10)
Prerequisites: CD 431, 432, 440 or consent of instructor.
Student conducts evaluation and rehabilitation of persons with hearing disorders.
May be repeated to a maximum of 10 units. Letter grade only (A-F).

680. Internship in Audiology (5)
Prerequisites: CD 695A or B or C, 679 and 689G, or consent of the instructor.
Advanced clinical practice in audiology with hearing impaired persons in a community facility.
Letter grade only (A-F).

686A. Advanced Field Studies with Communication Handicapped (5)
Prerequisites: Passing of CBEST, completion of CD 662, 664, 665, 666 and all but one of the following: 669A, 669C, 669G, 669F, 669G, 669U.
Clinical Rehabilitation Services, Language Speech and Hearing Specialist candidates participate in supervised clinical practicum in an off-campus site, ten hour speech and language setting(s) for the equivalent of one semester earning 5 units of field study.
Enrollment by application to the Communicative Disorders Department only.
Credit/No Credit grading only. (Fieldwork)

695. Directed Readings (1-3)
Prerequisite: Consent of instructor.
Readings in communication sciences/disorders. Required of all candidates for the master's degree not electing the thesis option.
Under special circumstances, may be repeated to a maximum of 6 units. Letter grade only (A-F).

696. Research Methods: Applied and Basic (3)
Prerequisite: PSY 210 or equivalent or consent of instructor.
Professional issues related to research and clinical settings. Application of scientific method, experimental design (group and single subject) and related statistical methods (parametric and non-parametric). Evaluation literature in the field.
(Lecture 3 hours.) Letter grade only (A-F).

697. Directed Research (1-5)
Prerequisite or corequisite: C D 665 and consent of instructor.
Independent research under supervision of a faculty member.
Letter grade only (A-F).

698. Thesis (1-4)
Prerequisite: Advancement to candidacy for master's degree.
Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements for the master's degree.

COMPARATIVE WORLD LITERATURE
College of Liberal Arts

Department Chair: Carl Fisher
Department Office: McIntosh Humanities Building (MHB), Room 516
Telephone / Fax: (562) 985-4239 / (562) 985-4863
Website: www.csulb.edu/ctl/comp_lit

Professors: Alwin Basem, Roland E. Bush, Elizabeth Dashah, Carl Fisher, Cheryl Goldstein, Febura Serrano, Vlatka Velic
Administrative Support Coordinator: Gretchen Dinger

Students desiring information should contact the department office for an appointment with the advisor.

Career Possibilities
Creative/Mode Writer • Editor • Technical Writer • Librarian • Copyright Writer • Literary Agent • Literary Critic • Foreign Service Officer • Public Relations Worker • Market Researcher • Educator • Lawyer • Government Affairs Officer • Management Trainee • Underwriter • Claims Adjustor (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
Comparative World Literature is the study of foreign literatures in translation and the relationships among those literatures and between literature and other fields such as art, music, history, philosophy, and theatre. At CSULB, Comparative World Literature also offers a strong focus in cultural studies and mythology as bases for understanding literature and for the ways we see ourselves in a multicultural and global environment. Suggested preparation: course work in world literature, history, English composition, and foreign language.

Bachelor of Arts in Comparative World Literature (code CLTBA01) (120 units)
The Bachelor of Arts in Comparative World Literature has three emphasis options: Language and Literature, World Literature, and Cultural Studies.

Emphasis I: Language and Literature
The traditional undergraduate major in Comparative Literature, designed to prepare the student for graduate study in Comparative Literature or related fields, with a 24 unit core and two 12 unit concentrations.

Requirements
1. Core Courses (24 units distributed as follows):
   A. CWL 330A and 330B.
   B. Course. At least one of the following: CWL 346, 420, 422B*, 440, 451B*, 453, CLSC 420A*.
   C. Author. At least one of the following: CWL 430, 449.
   D. Non-Western or Mythology. At least one of the following: CWL 334, 342*, 350, 402, 403, 440, 445, 452.
   E. Theory. At least one of the following: CWL 361, 365, 401.
   F. Literary Movement or Comparative Study. At least one of the following: CWL 344, 349, 404, 406, 410, 448, CLSC 311*, 311B*.
   G. European Period. At least one of the following: CWL 431, 432, 435, 437, 438.
   Note: CWL 440 may be used in both groups B and D with appropriate different topics.

2. The First Concentration. 12 upper-division units in one foreign language, six of which must be in literature classes. If a language is chosen which offers a limited number of courses, some lower-division units will suffice, but they must be, at a minimum, the equivalent of four semesters of college study.

3. The Second Concentration. 12 upper-division units in any one of the following areas: American Indian Studies, Art History, Asian Studies, Asian American Studies, Black Studies, Chicano and Latino Studies, Classics, English Literature, English Option in Creative Writing, film studies, History, music history, Philosophy, Religious Studies, Theatre Arts, Women's Studies, or a second foreign language.

If the concentration is in American Indian Studies, Asian Studies, Asian American Studies, Black Studies, Chicano and Latino Studies, English Option in Creative Writing, Theatre Arts, Women's Studies, or a second foreign language area, 6 of the units must be in literature courses. If the concentration is in Theatre Arts, Women's Studies or film studies, appropriate courses may be chosen from any department offering such courses, including Comparative World Literature and Classics.

Emphasis II: World Literature
This emphasis offers a broad background in world literature in translation. It is appropriate for the student interested in focusing on global literature and culture as well as the student who elects the comparative world literature teaching option of the English Single Subject Credential program.

Requirements
A minimum of 36 units is required, at least 24 upper-division units, distributed in the following way, with no more than two lower-division courses in any category (12 units total):

1. Required Courses (9 units): CWL 330A and CWL 330B; CWL 361 or 365.

2. Area Courses (27 units): Three courses (9 units) from each of the following areas:

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Minor in Comparative World Literature (code CLTU/M01)

In addition to the bachelor of arts degree, the Department offers a minor in comparative world literature. The minor provides a flexible program for the student who is majoring in another discipline, but who is interested in comparative world literature either for professional advantages or for intellectual enrichment.

Requirements
A minimum of 18 units in comparative world literature, of which at least 12 are upper division excluding CWL 499.

The Center for Medieval and Renaissance Studies
The Center for Medieval and Renaissance Studies offers two programs to students who want to study medieval and Renaissance political and social history, art, literature, philosophy, religion, music, and drama. Undergraduate students can pursue a Certificate or a minor in Medieval and Renaissance Studies. Graduate students can pursue a Certificate in Medieval and Renaissance Studies. Interested students should turn to the catalog section entitled “Medieval and Renaissance Studies” and contact the program directors in MHB 512.

Comparative World Literature Courses (CWL)

LOWER DIVISION

100. Introduction to World Literature (3)
Prerequisite/Corequisite: Any GL Foundation course.
Readings in translation from world literature. Emphasis on how literature engages unique cultural elements around the world as well as cross-cultural comparisons.

101. Introduction to Comparative World Literature (3)
Prerequisite/Corequisite: Any GE Foundation course.
An introduction to the basics of literary interpretation and comparative literature. Strongly recommended for majors in Comparative World Literature.

103. Introduction to Comparative Asian Literature and Culture (3)
Prerequisite/Corequisite: Any GE Foundation course.
Introduction to two major Asian cultures—India and China—through an exploration of their literatures, cultures, and diasporas. Focus will be on the modern period.

104. Literature and Culture of the Middle East (3)
Prerequisite/Corequisite: Any GE Foundation course.
Introduction to Middle Eastern and North African culture through an exploration of their literatures, with a focus on some of the major figures of the twentieth- and twenty-first centuries, such as Naguib Mahfouz, Ghassan Kanafani, Edward Said, and others. Lottor grade only (A-F).

124. Introduction to World Theatre and Drama (3)
Prerequisite/Corequisite: Any GE Foundation course.
Introduction to all aspects of theatre including criticism, dramatic literature, movements, themes, historical background and theatrical production from different parts of the world.
132. Folklore and Mythology (3)
Prerequisite/Corequisite: Any GE Foundation course. Introduction to the study of mythology and folklore in a global context, with an emphasis on their application in literature. Not open for credit to students with credit in CWL 232.

341. Reading the World (3)
Prerequisite/Corequisite: Completion of GE Foundation requirements. Introduction to contemporary theories of reading and interpretation. Examination of diverse forms of human expression and critical understanding from around the world and across the disciplines designed to develop and refine a broad repertoire of reading tools and practices.

220. Literature and Play (3)
Prerequisites: Completion of the GE Foundation courses. Explores the interrelation of human physiological, social, and psychological states as represented in literature and historically diverse works of literature concentrated upon the nature of human play and the purpose of human games.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper-division course except upper-division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

315L. Literature and Medicine (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Interdisciplinary examination of the complex relationship between medicine and human experience, integrating materials from the humanities and social sciences to explore diverse experiences across cultures, and among genders, and in various economic and social contexts. Letter grade only (A-F).

320L. Comic Spirit (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Study of comedy as a literary genre and the manifestation of the comic spirit in related art forms such as music, art, and film, focusing on the history and philosophy of comedy as well as theories of laughter.

324L. Theatre Today (3)
Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing. Examines current trends, achievements, and problems in contemporary western theatre and dramatic literature. Particular attention will be paid to multicultural expression in the theatre.

Same course as THHEA 324L. Not open for credit to students with credit in THHEA 324L.

330A.B. Masterpieces of European Literature (3, 3)
Prerequisite: One course in literature or consent of instructor. Representative selections, in translation, of European texts to and since the Renaissance and their relation to the development of Western civilization.

334. Introduction to East Asian Literatures and Cultures (3)
Prerequisite: Completion of GE Foundation requirements. A comprehensive introduction to the comparative study of East Asian cultures through the reading of representative selections from the literatures of China, Korea, and Japan in historical context. Focus is on the modern period.

Same course as ASIT 334. Not open for credit to students with credit in ASIT 334.

342. The Bible as Literature (3)
Prerequisites: Completion of GE Foundation requirements. Reading of representative Biblical selections interpreted from a literary standpoint.

344. Literature of the Holocaust (3)
Prerequisites: One course in literature or consent of instructor. Intensive study of literary works of different genres and cultural backgrounds, from 1945 to the present, to analyze the strategies writers use to present the historical events and the cultural reverberations of the Holocaust.

346. Readings in World Poetry (3)
Prerequisite: One course in literature or consent of instructor. Representative selections of the poetry of the world from the earliest examples to the present. Facing-page translations will be included.

349. Literary Movements (3)
Prerequisite: One course in literature or consent of instructor. Intensive study of a movement or theme in world literature. Specific movement or theme will be announced in the Schedule of Classes.

May be repeated to a maximum of 9 units with different topics.

350. Global Literature in American Culture (3)
Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing. Comparative and thematic study of transnational literary culture, as represented in at least three distinct American ethnic groups. Readings examined in relation to contemporary global themes and in relation to the original national literatures.

361. Masterpieces of Literary Criticism (3)
Study of literary criticism from Plato to the present, focusing on history of literary and cultural theory as well as methods of critical analysis applied to literary texts and other forms of cultural expression.

365. Cultural Studies: Histories, Theories, and Issues (3)
Prerequisite: One course in literature or consent of instructor. Cultural studies in a global, comparative context, including theories of discursive practices and identity politics; examined through theoretical discourses about literature and the arts and also as an interpretive technique for cultural institutions, practices, and products.

402/502. Studies in Middle Eastern Literature and Culture (3)
Prerequisite: One course in literature or consent of instructor. Study of specific authors, themes, genres, movements, or aspects of literature and culture in the Middle East or between the Middle East and the West.

Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

403/503. Studies in Asian Literature (3)
Prerequisite: One course in literature or consent of instructor. Interrelationships of two or more authors, themes, genres, movements or aspects of literature and culture in Asia or between Asia and the West.

Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

404/504. Women in World Literature (3)
Prerequisite: One course in literature or consent of instructor. Study of the role of women in world literature.

Specific movement, area, or theme will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.
406/506. Studies in East European Literature and Culture (3)
Prerequisite: One course in literature or consent of instructor. Major movements, authors, and themes in Eastern European literature and culture (Slavic and non-Slavic) and/or the relationship of East European literature and culture and Western Europe and North America. Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

410. Literature and Music (3)
Prerequisite: One course in literature or consent of instructor. Examination of relationship between music and literature in 19th and 20th centuries with emphasis placed on representative literary works and musical compositions that show mutual influence and common features and structures.

421L Art and Literature (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Interdisciplinary study of 19th and 20th Century art and literature, emphasizing comparative analysis of styles, methods, principles, and movements across genres as well as major artists, writers and theorists in their social and historical contexts.

441L Medieval World (3)
Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing. Interdisciplinary examination of major themes in medieval society and culture, with an emphasis on literature, the arts, and the historical forces that combined to produce medieval culture as a whole.

451L Film and Novel in Society (3)
Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing. Comparative, interdisciplinary study of multicultural literature in historical and sociopolitical context. Ethnic groups include Native American, African American, Latinx/Latinos, Asian American, and Middle Eastern American.

420. Studies in the Comic Spirit (3)
Prerequisite: CMW 320L or consent of instructor. Study of specific themes, theories, genres, and/or interdisciplinary relationships in comedy. Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 units with different topics.

422L Renaissance Theatre and Drama (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Interdisciplinary study of the achievements, problems, themes, and trends of Renaissance drama in Italy, Spain, France, and England between 1550 and 1650. Major plays of the period are read in translation, with attention to literary and theatrical elements.

430/530. Dante (3)
Prerequisite: One course in literature or consent of instructor. A reading, in translation, of the major works of Dante, including The Divine Comedy. Examination is given to the comparative nature of Dante’s work, his sources and his influence on later writers, artists, and composers.

431L/531L Medieval Literature (3)
Prerequisite: One course in literature or consent of instructor. Representative selections, in translation, from writings of the medieval period, reflecting dominant ideas of the time.

432/532. Continental Renaissance Literature (3)
Prerequisite: One course in literature or consent of instructor. Comparative study of the major non-dramatic works of Renaissance Europe, including authors such as Petrarch, Boccaccio, Lorenzo de’ Medici, Machiavelli, Ariosto, Tasso, Ronsard, Rabelais, Erasmus, and Cervantes. Emphasis is also given to influences, trends, and contributions to the modern world.

435/535. Literature of the Enlightenment (3)
Prerequisite: One course in literature or consent of instructor. A comparative study of European literature, from approximately 1650 to 1800, with an emphasis on reading literary works within historical context and considering the imaginative and intellectual achievements and legacies of the Enlightenment.

437/537. Romantic Literature (3)
Prerequisite: One course in literature or consent of instructor. Representative selections, in translation, from European writers of the Romantic period with an emphasis on a comparative study of works from Germany and France from about 1770 to 1850.

438/538. 20th Century European Literature (3)
Prerequisite: One course in literature or consent of instructor. Comparative study of continental European literature from 1800 to present. Focus on novels and drama. Topics include realism, naturalism, psychological novel, theater of the absurd, existentialism, modernism, postmodernism, and postcolonialism.

440/540. Latin American Literary Studies (3)
Prerequisite: One course in literature or consent of instructor. Comparative study of major literary genres in Latin American literature in relation to principal periods and movements of Western literary tradition. Genres for the semester will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

445/545. American Folklore Studies (3)
Prerequisite: One course in literature or consent of instructor. Special topics in American folklore. Topics are chosen to provide a bridge between literary, aesthetic, and specialized folkloric studies of American culture. Special attention will be paid to European and Third World contributions to American folklore.

448/548. Comparative Studies (3)
Prerequisite: One course in literature or consent of instructor. Interrelationship of two or more disciplines, with emphasis on reciprocal influences and borrowing of materials during various literary periods. The class will feature a different interdisciplinary study each semester.

449/549. Critical Studies in Major Continental Writers (3)
Prerequisite: One course in literature or consent of instructor. Intensive and comparative study of one to three major continental authors. Authors to be studied will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

451L. The Novel and the Motion Picture in Contemporary Society (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Interdisciplinary study of two genres, with particular focus on novels made into films and on aesthetic distinction of both forms as major genres in 20th and 21st centuries.
452/552. Studies in Mythology (3)
Prerequisites: One course in literature or consent of instructor.
Interrelation of two or more mythologies, mythological themes or theories of mythology. Different areas of study of mythology each semester.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

453/553. Fairy Tales (3)
Prerequisites: One course in literature or consent of instructor.
Study of fairy tales as a unique literary genre and art form. Class will apply contemporary theory to tales and identify psychological, religious, cultural, and alchemical patterns and symbols that manifest the realization of identity and illustrate creative processes.

461/561. Topics in Contemporary Literary Criticism (3)
Prerequisites: Two upper-division literature courses or consent of instructor.
In-depth study of a particular critic or movement in contemporary literary theory.
May be repeated to a maximum of 9 units with different topics.

482. Internship Program (1-3)
Prerequisites: Consent of instructor and department chair.
Field work in literature-related industries, internships and other assignments directed by a supervising faculty member.
May be repeated to a maximum of 6 units.
Credit/No Credit grading only.

485. Genres (1-3)
Prerequisites: Consent of instructor.
Production of student journal. Genre, including editing, design, soliciting contributors, working with printer, desktop publishing, and financial management. Organizational meeting previous fall semester. Contact department office for information.
May be repeated to a maximum of 9 units.
Credit/No Credit grading only.

490. Directed Studies (1-4)
Prerequisite: Consent of instructor.
Independent study of special topics under supervision of a faculty member.
May be repeated to a maximum of 6 units with consent of department.

GRADUATE LEVEL

501. Advanced Interdisciplinary Study (3)
Intensive study of the theories and methods of comparing and interrelating literature with other disciplines such as various areas among the fine arts, the social sciences and the sciences. Course will involve independent research.
Letter grade only (A-F).

502/402. Studies in Middle Eastern Literature and Culture (3)
Prerequisites: One course in literature or consent of instructor.
Study of specific authors, themes, genres, movements, or aspects of literature and culture in the Middle East or between the Middle East and the West.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

503/403. Studies in Asian Literature (3)
Prerequisites: One course in literature or consent of instructor.
Interrelationships of two or more authors, themes, genres, movements or aspects of literature and culture in Asia or between Asia and the West.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

504/404. Women in World Literature (3)
Prerequisites: One course in literature or consent of instructor.
Study of the role of women in world literature.
Specific movement, area, or theme will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

506/406. Studies in East European Literature and Culture (3)
Prerequisites: One course in literature or consent of instructor.
Major movements, authors, and themes in Eastern European literature and culture (Slavic and non-Slavic) and/or the relationship of East European literature and culture and Western Europe and North America.
Letter grade only (A-F). Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

530/430. Dante (3)
Prerequisites: One course in literature or consent of instructor.
A reading, in translation, of the major works of Dante, including the Vita Nuova and the Divine Comedy. Examination is also given to the comparative nature of Dante's work: his sources and his influence on later writers, artists, and composers.
Letter grade only (A-F).

531/431. Medieval Literature (3)
Prerequisites: One course in literature or consent of instructor.
Representative selections, in translation, from writings of the medieval period, reflecting dominant ideas of the time.
Letter grade only (A-F).

532/432. Continental Renaissance Literature (3)
Prerequisites: One course in literature or consent of instructor.
Comparative study of the major non-dramatic works of Renaissance Europe, including authors such as Petrarch, Boccaccio, Lorenzo de Medicis, Machiavelli, Ariosto, Tasso, Ronsard, Rabelais, Erasmus, and Cervantes. Emphasis is also given to influences, trends, and contributions to the modern world.
Letter grade only (A-F).

535/435. Literature of the Enlightenment (3)
Prerequisites: One course in literature or consent of instructor.
Comparative study of European literature, from approximately 1550 to 1800, with an emphasis on reading literary works within historical context and considering the imaginative and intellectual achievements and logics of the Enlightenment.
Letter grade only (A-F).

537/437. Romantic Literature (3)
Prerequisites: One course in literature or consent of instructor.
Representative selections in translation from European writers of the Romantic period with an emphasis on a comparative study of works from Germany and France from about 1770-1850.
Letter grade only (A-F).

538/438. 20th Century European Literature (3)
Prerequisites: One course in literature or consent of instructor.
Comparative study of continental European literature from 1900 to present. Focus on novels and drama. Topics include realism, naturalism, psychological novel, theatre of the absurd, existentialism, modernism, postmodernism, and postcolonialism.
Letter grade only (A-F).

540/440. Latin American Literary Studies (3)
Prerequisites: One course in literature or consent of instructor.
Comparative study of major literary genres in Latin American literature in relation to the principal periods and movements of the Western literary tradition.
Genres for the semester will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).
545/445. American Folklore Studies (3)
Prerequisite: One course in literature or consent of instructor.
Special topics in American folklore. Topics are chosen to provide a bridge between literary, aesthetic and specialized folkloristic studies of American culture. Special attention will be paid to European and Third World contributions to American folklore.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

548/448. Comparative Studies (3)
Prerequisite: One course in literature or consent of instructor.
Interrelationship of two or more disciplines, with emphasis on reciprocal influences and borrowing of materials during various literary periods. The class will feature a different interdisciplinary study each semester.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

549/449. Critical Studies in Major Continental Writers (3)
Prerequisite: One course in literature or consent of instructor.
Intensive and comparative study of one to three major continental authors.
Authors to be studied will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

550. Topics in Comparative World Literature (3)
Prerequisite: CWL 501 or consent of instructor.
Special studies of movements, figures, and relationships in world literature, or between world literature and other disciplines.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

552/452. Studies in Mythology (3)
Prerequisites: One course in literature or consent of instructor.
Interrelation of two or more mythologies, mythological themes or theories of mythology. This class will feature a different area of an interdisciplinary or comparative nature in the study of mythology each semester.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

553/453. Fairy Tales (3)
Prerequisite: One course in literature or consent of instructor.
Study of fairy tale as a unique literary genre and art form. Class will apply contemporary theory to tales and identify psychological, religious, cultural, and alchemical patterns and symbols that manifest the realization of identity and illustrate creative processes.
Letter grade only (A-F).

561/461. Topics in Contemporary Literary Criticism (3)
Prerequisite: Two upper division literature courses or consent of instructor.
In depth study of a particular critic or movement in contemporary literary theory.
May be repeated to a maximum of 9 units with different topics.
COMPUTER ENGINEERING AND
COMPUTER SCIENCE
College of Engineering

Department Chair: Kenneth James
Department Office: Engineering & Computer Sciences (ECS) - 552
Telephone: (562) 985-4285
Website: http://www.cecs.csulb.edu/

Faculty: Anastasios Chaozisakos, Michael Christensen, Sandra
Cymer (Emeritus), Wayne Dick, Todd Ebert, Burkhard Engler, Arthur
Gillies, Darin Goldstein, Miki He, Michael Hoffman, Tom
Johnson, Shu Lam, Dar-Blou Liu, Troy Bradley Maples, Alvaro
Monge, Frank Munjala, Tinh Nguyen, Galloen Van Lent, Dennis
Volper, Xiangdong Wu
Undergraduate Advisors: Michael Chelius, Alvaro Monge
Graduate Advisor: Burkhard Engler

General Education Advising: Academic Advising - Horn Center
Minor and Certificate Advisor: Barbara Mack
Administrative Support Coordinator: Robin Iwami
Administrative Support Assistant: Kasey Arthuere

Students desiring detailed information should contact the
department for referral to one of the faculty advisors.

Career Possibilities
Computer Engineer • Software Engineer • Systems Analyst
• Microcomputer Programmer • Web Application Developer
• Mainframe Programmer • Applications Programmer • LAN/
WAN Administrator • Systems Administrator • Computer
Services Representative • Database Administrator • Technical
Services Manager • Telecommunications Analyst (Some of
these, and other careers, require additional education or
experience. For more information, see www.careers.csulb.
.edu.)

Accreditation
The Bachelor of Science in Computer Engineering is
accredited by the Engineering Accreditation Commission
(EAC) and the Bachelor of Science in Computer Science
by the Computing Accreditation Commission (CAC) of
the Accreditation Board for Engineering and Technology
(ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202

Advisory Board
The Department of Computer Engineering and Computer
Science is supported by an Advisory Board composed of
engineers, computer scientists, and business executives
in the Southern California area. This liaison helps the
department keep its curricula responsive to the needs of the
community.

Undergraduate Educational Objectives
All courses and programs in the Department of Computer
Engineering and Computer Science are designed to
meet the following objectives: Students will receive a
comprehensive education in Computer Engineering and/or
Computer Science, as well as the sciences and humanities,
that will serve them in both their professional and personal

Bachelor of Science in Computer
Engineering (code CECSB502) (128 units)
The Bachelor of Science in Computer Engineering
degree program has a two-part objective. The first is to
provide students with a strong background in mathematics,
physics, and engineering science. The curriculum includes
courses in digital systems, embedded systems, integrated
circuits design, including operating systems and software
engineering. The second objective is to provide students
with the skills necessary to be effective contributors in a
quality-oriented, customer-focused environment. Courses
throughout the program, especially those in the junior
and senior years, emphasize an open-ended, design-oriented
approach to solving engineering problems. Teamwork,
communication skills, and an interdisciplinary approach to
problem solving are integrated into the senior computer
engineering design courses.

Requirements
Lower Division: CECS 105, 174, 201, 211, 228, 262, 271,
274, 282; ENGR 101, 102; MATH 122, 222; PHYS 151, 152
(or EE 210 and 210L).
Upper Division: CECS 301, 311, 343, 346, 347, 360, 362,
440, 447, 460, 463, 490A, 490B, EE 380 (or MATH 380);
plus nine units of approved electives to be selected from
CECS 406, 451, 461, 474, 475, 497; EE 386, 486; CE 406;

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ECON 300, CEM 310 (or ENGL 317), ENGR 350, MATH 370A.

A grade of "C" or better must be achieved in all required and elective courses. CE 606, CEM 310, CECS 104, 105, 174, 201, 211, 228, 262, 271, 274, 282, 301, 311, 343, 346, 347, 360, 362, 406, 440, 447, 451, 460, 463, 474, 475, 490A, 490B, 497, ECON 300; EE 210 and 210L, 380, 386, 486; ENGL 317; ENGR 101, 102, 350; MATH 122, 222, 370A, 380, PHYS 151, 152.

Bachelor of Science in Computer Science (code CECSBS01) (126 units)

The Bachelor of Science in Computer Science degree is designed to prepare graduates for a variety of professional careers in the computer field. The curriculum is designed to provide students with both breadth and depth in computer science. Breadth is achieved through a series of core courses that stress a balance between the theoretical and practical aspects of computer science. The topics covered in these courses include the following: the basics of programming languages, software design and analysis, data structures, algorithms, digital systems, computer organization, computer architecture, and operating systems. Extensive laboratory time is required for these courses, and design and analysis experiences are emphasized. Depth is achieved through courses (both required and elective) on advanced computer science topics. These courses provide students with in-depth knowledge of the material covered in the breadth portion of the curriculum.

Requirements

Lower Division: CECS 105, 174, 201, 228, 274, 277, 282, 289; ENGR 101, 102; MATH 122, 222, 247; Minimum of 12 units of approved science electives to include at least one computer science course.

Upper Division: CECS 323, 326, 327, 328, 441, 442; ENGR 350; MATH 350 (or EE 350); CEM 310 or ENGL 317; plus three (3) units of study in formal languages and computability to be chosen from CECS 419, 424, 444; plus 15 units of approved electives to be selected as follows: six (6) units of core electives chosen from CECS 419, 424, 428, 429, 444, 445, 448, 450, 451, 474, 475, MATH 323; three (3) units of applied electives to be chosen from CECS 455, 470, 472, 475, 476; three (3) units from a capstone course to be chosen from CECS 423, 491, 492; an additional three (3) units to be chosen from either the core, applied, or senior capstone course list, or from CECS 401, 405, 406, 409, 409.

A grade of "C" or better is required in the following courses: CEM 310; CHEM 111A, 111B, 111C; CECS 105, 174, 201, 228, 274, 277, 282, 285, 323, 326, 327, 328, 341, 343, 423, 490A, 491, 492; EE 210 and 210L, 380; ENGL 317; ENGR 101, 102, 350; MATH 122, 222, 247, 380; PHYS 151, 152.

Bachelor of Science in Engineering Technology

Technology and Engineering Education Option (code ET__BS15)

For requirements, see the description in the Engineering Technology Programs section of this Catalog.

Minor in Computer Science (code CECSUM01)

The minor in Computer Science is designed to prepare students in other majors for careers in a wide variety of fields which require computer science expertise.

Requirements

A minimum of 24 units. CECS 174, 201, 228, 274, 277, 323, and two courses to be selected from CECS 326, 328, 343, 423, 449, 470, 474, 475, ENGR 350.

Minor in Web and Technology Literacy (code CECSUM03)

Open to all majors except those seeking a B.S. Engineering Technology option in Technology and Engineering Education.

The minor in Web and Technology Literacy is designed to provide students from many majors some valuable internet and web authoring skills and a broad understanding of technology. Digital devices and computers are ubiquitous in our lives, yet most people do not know how they were designed, how they work and how to use them. All CSULB baccalaureate degrees prepare students for the reading, writing, mathematical operations, speaking and critical thinking. This minor will provide the technical skills not included in non-technical degrees, but required for success in a highly technical world.

This minor will prepare students to work with a variety of technologies including computers and related technologies and the proper setup and operation of equipment along with valuable troubleshooting skills required of today's work force. Students will gain an understanding of the system design process and how our digital world works. Students will learn to acquire and evaluate information from the internet and to communicate information via the internet including ethical issues encountered when using the internet. In addition, students will learn to create a robust, usable, and accessible Web site. This minor will provide valuable technical skills for a variety of fields including graphic arts, teaching, journalism, law, business and public administration, social work and many others. The minor is conferred concurrently with the B.S. degree.

Requirements

A minimum of 18 units as specified below:
2. Completion of 3 units from the following list of electives:
   CECS 310, 401, 412; ENGR 350; ART 366; ETEC 435.

Minor in Computer Science Applications (code CECSUM02)

The minor in Computer Science Applications is designed to prepare students to be able to write small programs and to maintain and upgrade PC software and hardware as well as understand how to set up a local area network. In addition it prepares students to be able to design and implement web applications using modern and readily available authoring tools. This minor will provide valuable skills for a variety of fields including teaching, law, business and public administration, engineering and many others. The Minor in Computer Science Applications is not open to students majoring in Computer Science or Computer Engineering.
Requirements
Completion of 18 units as specified below:
1. Completion of 12 core units: CECS 110, 174, 200, 410
2. Completion of 6 units from the following list of electives:
   CECS 300, 310, 412; IS 300, 340, 343; ETEC 435.

Certificate in Web and Technology Literacy
(code CECSCT01)
Open to all majors except those with or seeking a B.S. Engineering Technology option in Technology and Engineering Education.

The certificate in Web and Technology Literacy is designed to give students from many majors some valuable internet and web authoring skills and a broad understanding of technology. Digital devices and computers are ubiquitous in our lives, yet most people do not know how they were designed, how they work and how to use them.

This certificate will prepare students to work with a variety of technologies including computers and related technologies and the proper setup and operation of equipment along with valuable troubleshooting skills required of today's labor force.

Students will gain an understanding of the system design process and how our digital world works. Students will learn to acquire and evaluate information from the internet and to communicate information via the internet including ethical issues encountered when using the internet. In addition, students will learn to create a robust, useable, and accessible Web site. This certificate will provide valuable technical skills for a variety of fields including graphic arts, teaching, journalism, law, business and public administration, social work and many others. The certificate is conferred as a post-baccalaureate certificate or concurrently with the B.S./B.A. degree.

Requirements
A minimum of 24 units as specified below:
1. Completion of 18 core units: CECS 110, 202, 200, 300, 410, 412
2. Completion of 6 units from the following list of electives:
   CECS 310, 401; ENGR 350; ART 366; ETEC 435.

Graduate Programs

Master of Science in Computer Science
The Master of Science in Computer Science is offered by the Department of Computer Engineering and Computer Science, College of Engineering. Two options are offered:
1. Option in Computer Engineering
2. Option in Computer Science

The Option in Computer Engineering offers advanced study in the theory, analysis, design, and applications of both computer hardware and software. The Option in Computer Science offers advanced study in software development and engineering, networking, operating systems, distributed computing, artificial intelligence, security, and analysis of algorithms.

Admission Procedures
To be considered for admission the graduate applicant must have earned a bachelor's degree from an accredited institution, be in good standing at the last institution attended, and have a grade point average (GPA) of at least 2.7 for the last 60 semester units (90 quarter units) attempted. The general Graduate Record Examination (GRE) is not required, but highly recommended for international students and those students with a GPA below 3.0.

There is no separate department application, but applicants should submit a second set of transcripts to the department.

Option in Computer Engineering
(code CECSMS02)
Prerequisites
1. A bachelor's degree in computer science, engineering, or other appropriate discipline from an accredited college or university, with a minimum grade point average (GPA) of 2.7 in the last 60 semester units attempted.
2. One year of instruction in an object-oriented programming language, CECS 301, 326, 343, 346, 347, 360, 440, and MATH 370A.
3. Students must consult with the program graduate advisor prior to enrolling in any course for the program.

Requirements
Students must complete a minimum of 30 graduate and approved upper-division course units including the following:
1. At least 21 units at the graduate level of instruction;
2. CECS 450, 463, 530, and either 531 or 540;
3. One course from the Computer Engineering Fundamental Areas, namely CECS 526 or 528;
4. One additional course from the MSCS Application Courses;
5. All students must complete either:
   A. a comprehensive examination, or
   B. a thesis with oral defense which requires a total of 6 units of CECS 697 or 698, of which at least 4 units must be CECS 698.

Option in Computer Science
(code CECSMS01)
Prerequisites
1. A bachelor's degree in computer science, engineering, or other appropriate discipline from an accredited college or university, with a minimum grade point average (GPA) of 2.7 in the last 60 semester units attempted.
2. One year of instruction in an object-oriented programming language, CECS 228, 285, 323, 326, 328, 341, 343, MATH 380, and either 419, 424, or 444.
3. Students must consult with the program graduate advisor prior to enrolling in any course for the program.

Requirements
Students must complete a minimum of 30 graduate and approved upper-division course units including the following:
1. At least 21 units at the graduate level of instruction;
2. CECS 526;
3. One course from the Computer Science Fundamental Areas, either CECS 526 or 530;
4. Two courses from the MSCS Application courses;
5. All students must complete either:
   A. a comprehensive examination, or
   B. a thesis with oral defense which requires a total of 6 units of CECS 697 or 698, of which at least 4 units must be CECS 698.

**Advancement to Candidacy**

Students applying for advancement to candidacy must:
1. have completed all undergraduate deficiencies with grades of "C" or better;
2. have attained an overall grade point average (GPA) of 3.0;
3. have completed at least 12 units applicable to the degree with a GPA of at least 3.0;
4. have fulfilled the Graduation Writing Assessment Requirement (GWAR);
5. and have their program of studies approved by the CECS department graduate advisor.

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**Courses (CECS)**

**LOWER DIVISION**

100. Critical Thinking in the Digital Information Age (3)
Prerequisite/Corequisite: ENGL 100 or its equivalent.
Develop critical thinking skills with technical tools. Main topics include: identifying topics for investigation, developing planning strategies (locating pertinent information), critically analyzing sources of information, testing hypotheses, synthesizing and organizing results for effective communication.
Letter grade only (A-F). (Lecture 3 hours)

105. Introduction to Computer Engineering and Computer Science (1)

Introduction to the fields of computer engineering and computer science. Current and future trends and challenges in various fields of computing. Social, ethical, and economical issues related to computing technology. Exploration of career and professional development opportunities.
(Lecture 3 hour) Letter grade only (A-F).

110. Web Design I (3)
Overview of computer systems, networking, Internet, HTML, JavaScript, social implications of technology including privacy and security issues. Introduce computer applications and multimedia software such as video editing, creating graphics using interactivity and animation, and Web searching. Develop problem solving skills.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

174. Introduction to Programming and Problem Solving (3)
Prerequisite: MATH 113 (or equivalent).
Introduction to basic concepts of computer science and fundamental techniques for solving problems using the Java programming language. Structured problem solving, object-oriented programming, programming style. Applications to numerical and non-numerical problems.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

200. Web Design II (3)
Prerequisite: CECS 110.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

201. Computer Logic Design I (3)
Prerequisite: MATH 113 (or equivalent).
Basic topics in combinational and sequential switching circuits with applications to the design of digital devices. Laboratory projects with Small Scale Integration (SSI) implementations using Computer Aided Design (CAD).
(Lecture 2 hours, lab 3 hours) Letter grade only (A-F).

202. The Digital Information Age (3)
Prerequisite: Completion of GE foundation requirements.
The design and use of common-place digital information systems. Introduction to how information is digitized, secured, compressed and transmitted. Students learn how digital age impacts them and the world they live in.
(Lecture 5 hours) Letter grade only (A-F).

211. Principles of Computer Engineering I (3)
Prerequisite: MATH 122
Basic principles of analysis and design of computer based circuits. Application of transistors, logic families, digital, devices in computer and embedded processor interfacing, importance of microprocessors and the complex plane. Basic DC/AC circuit fundamentals. Laboratory safety.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

228. Discrete Structures with Computing Applications (3)
Prerequisites: CECS 174 and one of the following: MATH 115, 119A, 122, PSY 310.
An introduction to discrete mathematics with applications towards computing. Topics include sets, functions, logic, relations, graphs, trees, recursion, combinatorics, and mathematical reasoning.
Letter grade only (A-F). (Lecture 2 hours, laboratory 2 hours) Letter grade only (A-F).

262. C for Embedded Programming (3)
Prerequisites: CECS 174 and 201
Intro to embedded system programming using C. Basic microprocessor architecture, memory organization and special function registers that are unique to embedded systems. Learn development tools and embedded C instructions that are used in embedded system programming and design. Course will be taught using an 8-bit microprocessor development board.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

271. Introduction to Numerical Methods (3)
Prerequisites: CECS 174 and MATH 222.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

274. Object Oriented Programming and Data Structures (3)
Prerequisite: CECS 174; Prerequisite/Corequisite: CECS 201.
Disciplined methods of design, coding and testing using the Java programming language. Data abstraction, object-oriented design. Introduction to data structures (linked lists, stacks, queues and trees.) Recursion. Sorting and searching.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

277. Object Oriented Application Development (3)
Prerequisite: CECS 274.
Advanced introduction to the fundamentals of computer science and software engineering methodology. Advanced programming techniques and design methodology typically used in large programming projects using the Java programming language.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)
282. C++ for Java Programmers (3)
Prerequisite: CECS 274.
Structured and Object Oriented Programming in C++. Common features and differences between Java and C++. Pointers, references, and memory management; streams and I/O, classes, operator overloading, exception handling, STL.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

285. Computer Organization and Assembly Language Programming (3)
Prerequisite: CECS 201, 274.
Study of computer organization and assembly language programming using embedded processor-based systems to solve practical problems. Laboratory projects using embedded system software development and hardware simulation tools. Hands-on projects using hardware prototyping boards.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

UPPER DIVISION

360. Web Design III (3)
Prerequisite: CECS 200.
Web page design using modern tools. Design and development of web pages from layout to posting on the Internet. Website usability, accessibility, security, and ethics.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

301. Computer Logic Design II (3)
Prerequisites: CECS 174, 201.
Sequential logic, programmable logic design, basic Arithmetic Logic Unit (ALU) design and memory devices. Laboratory projects with (Medium Scale to Very Large Scale Integration (MSI to VLSI) implementations and Computer Aided Design (CAD).
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

310. Computer-Based Learning Resources (3)
Prerequisite: CECS 200.
Explore and learn to use the many existing web-based education tools that focus on teaching technology. Evaluation of resources for age appropriateness and gender preferences. Students will develop a web-based tool to teach a technical subject of their choice. Field work required.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

311. Principles of Computer Engineering II (3)
Prerequisites: CECS 210 and CECS 211.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

312. Introduction to Distributed Operating Systems (3)
Prerequisite: CECS 174.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

323. Database Fundamentals (3)
Prerequisites: CECS 226, 277.
Fundamental topics on database management. Topics include entity-relationship models, database design, data definition language, the relational model, data manipulation language, database application programming and normalization.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

326. Operating Systems (3)
Prerequisites: CECS 282 and 285.
The structure and functions of operating systems. Interrupt handling, processes and interprocess communication, memory management, resource scheduling, information sharing and protection. Project implementation in C/C++.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

327. Net-centric Computing (3)
Prerequisite: CECS 326.
Introduction to Distributed Computing and Interprocess Communication: Client Server Paradigm, Sockets and the Socket API, Unicasting and Multicasting, Distributed Objects. CORBA, Internet Applications.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

328. Data Structures and Algorithms (3)
Prerequisites: CLCS 228; Corequisite: CLCS 277.
A broad view of data structures and the structure preserving operations on them. Abstract data types, algorithms, complexity. Programming projects to exemplify these concepts.

341. Computer Architecture and Organization (3)
Prerequisites: CECS 201 or 285.
(Lecture 2 hours, laboratory, 3 hours) Letter grade only (A-F).

343. Introduction to Software Engineering (3)
Prerequisites: CECS 277 or 212.
Principles of software engineering. UML, modeling large software systems, requirements elicitation, object-oriented analysis and design using UML, introduction to design patterns, implementation of large systems, software testing, project management, the software lifecycle. Semester-long programming project.
Letter grade only (A-F). (Lecture 2 hours, lab 3 hours)

345. Fundamentals of Embedded Systems (3)
Prerequisite: CECS 202.
Beginning course in embedded system design and technology. Examines embedded systems market, their fundamental basis, key hardware and software technology drivers, critical applications and component segments. Provides up-to-date analysis of recent developments and current trends in the market space.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

346. Microprocessors and Controllers I (3)
Prerequisites: CECS 274 and 211; Corequisite CECS 311.
Intro microprocessor/controller, embedded programming and design. Basic computer organization, representation of information and instruction, addressing techniques, input/output, assembly language programming. Introduction to assemblers, linkages editors and loaders. Study of the 6805. Design of microprocessor-based systems.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

347. Microprocessors and Controllers II (3)
Prerequisites: CECS 301, 343 and 346.
Study of microprocessor applications with interfacing. Embedded systems design, control of external devices, embedded programming in C and assembly, A/D and D/A converters, digital signal processing, motor and LCD controllers. Laboratory implementation of embedded designs and hardware-assisted debugging.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).
360. Integrated Circuit Design Software (3)
Prerequisites: CECS 301, 346, MATH 123 or 222.
Introduction to Computer Aided Design tools used in the
design and fabication of integrated circuits. Discussion of the
IC fabrication process, the layout and routing of basic gates,
transistor level design of gates, synthesis and RTL level design,
floor planning, and IC development costs.
(Lecture 2 hours, lab 3 hours) Letter grade only (A-F).

362. Real-Time Operating Systems (3)
Prerequisites: CECS 285 or 346, and 260.
Introduction to embedded Real-Time Operating Systems (RTOS)
and device drivers. Work with open-source RTOS on an 8-bit
hardware platform to understand and write kernels, executives and
timers along with preemptive multi-tasking systems. Students
will study and write device drivers that will be implemented in
RTOS. Programming will be done in C and assembly language.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

401. Programming Robots – For Educators (3)
Prerequisite: Some programming experience.
Learn how to inspire interest in engineering and computer science
among children ages 9 through 15. Using robotic kits, gain hands-
on experience in problem solving and computer programming
while constructing and programming unique robot inventions.
May not be used to satisfy any M.S.C.S. requirements. (Lecture 2
hours, laboratory 3 hours.) Letter grade only (A-F).

405. Special Topics in Computer Science (3)
Prerequisite: Senior standing in computer science major.
Selected topics from recent advances in computer science and
technology. Course content will vary from year to year.
(Lecture 2 hours, problems 3 hours.) Letter grade only (A-F).

406. Special Topics in Computer Science (3)
Prerequisite: Senior standing in the computer science major.
Each offering is based upon an area of computer science and
technology in which recent advances have been made.
Repeatability: 3 (4 hours) Letter grade only (A-F).

410. Computers and Networks (3)
Prerequisite: Course designed for professionals in computer
and networking. Gain practical hands-on experience in installing
hardware and software on a PC. Learn what a computer network is and how it
is related to the telecommunication network. Learn the parts that make up a
computer and a network.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

412. Introduction to Computer Network Architectures (3)
Prerequisite: CECS 410.
Beginning course in computer networking designed to provide a
brief overview of network architectures through lectures and hands-on laboratory
assignments. Overview of networking concepts and design
administration. Networking problems.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

414. Introduction to Network and System Security Issues (3)
Prerequisites: CECS 174.
Understanding the risk of computer security. Security threats and
vulnerabilities in the development and use of computer systems.
Tools and controls that can reduce or block these threats. Topics in
Network Security.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

419. Theory of Computation (3)
Prerequisite: CECS 328.
Finite Automata and regular expressions. Pushdown automata
and context-free languages. Turing machines and computability.
Computational complexity.
Letter grade only (A-F). Additional projects required for CECS 519.
(Lecture-problems 3 hours)

423. Database Web Applications in JEE (3)
Prerequisites: CECS 323 and 343.
Design and development of data-intensive web applications in
Java EE. Database topics include transaction management, stored
procedures, triggers, and security. Web application design and
development using core JEE patterns like Front Controller, MVC,
and DAO. Application of software engineering to complete a group
project.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

424. Organization of Programming Languages (3)
Prerequisites: CECS 265 and 328.
Understanding the variety of programming languages and
the trade-offs between current programming language paradigms.
Comparison of programming languages in their design,
implementation, and run-time support. Includes programming
projects.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

428. Analysis of Algorithms (3)
Prerequisite: CECS 328.
Applications of standard combinatorial techniques to applied
programming problems. Rigorous analysis of correctness/
complexity of algorithms. Advanced graph algorithms are
emphasized. Topics include shortest paths on graphs, sorting,
split matching, union find problem, divide and conquer technique,
and weighted edge problem.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

429. Information Retrieval (3)
Prerequisites: CECS 323 and 328, MATH 360 or EE 580.
Models, algorithms, and evaluation of the retrieval of information from
a collection of documents. Document preprocessing and
searching. Retrieval evaluation. Search engines.
Additional projects required for CECS 529. (Lecture 2 hours,
laboratory 3 hours) Letter grade only (A-F).

440. Computer Architecture (3)
Prerequisites: CECS 346.
Review of logic design. Register transfer and micro-operations.
Basic computer organization. Control processor organization.
Microprogram control organization. Arithmetic processor design.
Arithmetic algorithms. Input-output organization. Memory
organization.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

443. Software Engineering (3)
Prerequisite: CECS 326.
Software life cycle. Functional decomposition. Data flow and
object-oriented development. Reusability and portability.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

444. Compiler Construction (3)
Prerequisites: CECS 285 and 328.
Syntax directed compiler study. Organization of a compiler and
overall design: parsing, semantic analysis, optimization and code
generation.
(Lecture 5 hours, laboratory 3 hours) Letter grade only (A-F).
445. Software Design and Architecture (3)
Prerequisite: CECS 343 and Senior status.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

447. Microprocessors and Controllers III (3)
Prerequisite: CECS 347.
Embedded system applications and techniques. Real-time multitasking systems, schedulers, kernels, and operating systems for embedded processors. Advanced I/O technologies - CAN, 12C, Ethernet. Embedded Internet applications. Polling vs. interrupt handling. Lab implementation of embedded designs and hardware-assisted debugging.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

448. User Interface Design (3)
Prerequisite: CECS 323, 475.
Evaluation, design and programming of user interface systems. Fundamentals of human-computer interaction, system characteristics, and the interaction between humans and systems. Usability methods and user-task-centered design. Tools for designing and building user interfaces, with emphasis on rapid applications development.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

449. Computer Graphics (3)
Prerequisites: MATH 247, CECS 282 and 328.
Basic software and hardware of 2-D computer graphics. Applications.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

451. Artificial Intelligence (3)
Prerequisites: CECS 277 and 328.
Introduction to the history and implementation of artificial intelligence agents. Topics include search, constraint satisfaction, game-playing, logical agents, belief networks, optimal sequential decision systems. Project implementation.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

455. Introduction to Game Programming (3)
Prerequisite: CECS 328 or consent of instructor.
Introduction to game programming and graphics. "Slate" games. Real-time games with no adversary. Adversarial real-time games in 2-D.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

460. Systems On Chip Design (3)
Prerequisite: CECS 360.
Complete System on Chip (SOC) design flow from design specification to working SOC. Creation of RTL level modules designed for reuse. Integration of Intellectual Property (IP) for RTL and physical level IP, IC verification, creation of self-checking test benches for designs.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

461/561. Hardware/Software Co-design (3)
Prerequisite: CECS 341 or 440.
Introduction to top-down methods for hardware/software system-on-chip co-design. Design flow - system specification, software implementation, hardware synthesis, system design, and verification. Process optimization with various design decisions emphasized. Project/case studies using system-level design methods and tools.
Additional projects required for CECS 561. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

463. System on Chip (SOC) Applications (3)
Prerequisite: CECS 360.
System on Chip (SOC) design applications. Study of a variety of signal processing SOC designs and ASIC algorithms. Class projects emphasizing hardware/software integration with use of FPGA/CPLD devices. Design reviews, specification, team design implementation with project planning and tracking for system level design applications.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

470. Web Programming and Accessibility (3)
Prerequisite: CECS 343.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

472. Computer Network Programming (3)
Prerequisites: CECS 326 or 362 and 328.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

474. Computer Network Interoperability (3)
Prerequisite: CECS 326 or 362.
Overview of computer network theory and practice from a systems perspective. Topics include network infrastructure, local area network (LAN) protocols, wide area network (WAN) protocols, switching technologies, Internet Protocol (IP), Transmission Control Protocol (TCP), network security, and network configuration, design, and performance.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

475. Application Programming Using .NET (3)
Prerequisite: CECS 343.
A rigorous introduction to enterprise application development utilizing the .NET environment. Topics include GUI interface concepts, multithreading, collections and web forms as well as application interfaces to database, web services and networks. The course will have intensive individual projects as well as a team project.
Letter grade only (A-F). (Lecture 2 hours, laboratory 1 hours)

476. System and Network Administration (3)
Prerequisites: CECS 326 or 362.
Introduction to the management and administration of Unix systems and TCP/IP networks. Managing users, local and network file systems, electronic mail, print queues, establishing and managing a network.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

478/578. Introduction to Computer Security (3)
Prerequisite: CECS 323, 328, and one course selected from 472, 474, 476.
Controlling the risk of computer security. Security threats and vulnerabilities in the development and use of computer systems. Tools and controls that can reduce or block these threats. Law, privacy and ethics. Additional projects required for CECS 578. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

490A. Senior Project (3)
Prerequisites: CECS 457, Senior Standing.
A design course where the student will define a problem and provide a report containing a complete design solution.
(Seminar 3 hours) Letter grade only (A-F).
490B. Senior Project II (3)
Prerequisites: CECS 490A or 491 and consent of instructor.
Implementation of previously completed design project from CECS 490A or CECS 491. A formal demonstration with an oral and written presentation is required.
(Seminar 3 hours) Letter grade only (A-F).

491. Software Development Project (3)
Prerequisites: CECS 454 and Senior status.
Selected topics from recent advances in applied computing. Application of selected topics to the design and implementation of a software system within a team setting. Techniques for project management, documentation, and technical presentations. Software design, implementation, and evaluation strategies.
(Seminar 3 hours) Letter grade only (A-F).

492. Computer Networking Project Course (3)
Prerequisite: CECS 474 or consent of instructor.
Selected topics from recent advances in computer networking. Design, implementation, and performance analysis of enterprise networks. Network modeling and simulation. Application of selected topics to a semester long team project focusing on the design and implementation of a large-scale network system.
(Seminar 3 hours) Letter grade only (A-F).

496. Computer Science Problem Solving (1)
Prerequisites: CECS 274 and consent of instructor.
Problem solving in Computer Science. Theory necessary to solve computer science problems and the solutions to the problems. Problems studied will involve applications of graph theory, data structures, recursion, and algorithms.
(Lecture 1 hour) May be repeated to a maximum of 6 units in different semesters. Letter grade only (A-F).

497. Directed Studies (1–3)
Prerequisite: Consent of instructor.
Assign a study in topics in current computer literature or computer-related projects with a final report.
May be repeated to a maximum of 6 units with written consent of the Department Chair.

GRADUATE LEVEL

519/419. Theory of Computation (3)
Prerequisite: CECS 328.
Finite Automata and regular expressions. Pushdown automata and context-free languages. Turing machines and computability. Computational complexity.
Additional projects required for CECS 519. (Lecture-problems 3 hours) Letter grade only (A-F).

521/621. Database Architecture (3)
Prerequisites: CECS 328 and 323 or 421.
Relational database design theory and rigorous approach. Security, recovery, transaction management, distributed databases and query optimization.
Master’s students register in CECS 521 or 621; Ph.D. students register in CECS 621. Additional projects required for CECS 621.
(Lecture-problems 3 hours) Letter grade only (A-F).

524/624. Advanced Topics in Programming Languages (3)
Prerequisite: CECS 424.
Intensive study of languages of current interest which support object-oriented, client-server, and multimedia applications (e.g. JAVA).
Master’s students register in CECS 524 or 624; Ph.D. students register in CECS 624. Additional projects required for CECS 624.
(Lecture-problems 3 hours) Letter grade only (A-F).

525/626. Advanced Operating Systems (3)
Prerequisites: CECS 228 and 326.
Theoretical foundations of concepts applied in the design of operating systems. Control of concurrent processes, deadlocks, mutual exclusion, virtual memory, resource management and scheduling.
Master’s students register in CECS 526 or 626; Ph.D. students register in CECS 626. Additional projects required for CECS 626. (Lecture—problems 3 hours) Letter grade only (A-F).

528/628. Advanced Analysis of Algorithms (3)
Prerequisites: CECS 328, MATH 380 or EE 380.
Theoretical analysis of algorithms. Divide and conquer, dynamic programming and greedy algorithms; basic search and traversal techniques including search trees; sorting; matrix manipulations; NP-completeness.
Master’s students register in CECS 528 or 628; Ph.D. students register in CECS 628. Additional projects required for CECS 628.
(Lecture—problems 3 hours) Letter grade only (A-F).

529/629. Information Retrieval (3)
Prerequisites: CECS 323 and 328, MATH 380 or EE 380.

530/630. Advanced Computer Architecture I (3)
Prerequisite: CECS 341 or 440.
Master’s students register in CECS 530 or 630; Ph.D. students register in CECS 630. Additional projects required for CECS 630. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

531/631. Advanced Computer Architecture II (3)
Prerequisite: CECS 530.
Advanced computer architecture with emphasis on parallel processing. Vector processors and multiprocessor systems. Dataflow computation: RISC/DISC, Hypercube, Parallel software. Applications in artificial intelligence, signal/image processing, neural network and optical computing.
Master’s students register in CECS 531 or 631; Ph.D. students register in CECS 631. Additional projects required for CECS 631.
(Lecture-problems 3 hours) Letter grade only (A-F).

543/643. Advanced Software Engineering (3)
Prerequisites: CECS 343 or 443.
Study of software engineering as a broad, problem-solving discipline. Includes structured programming and software project management.
Master’s students register in CECS 543 or 643; Ph.D. students register in CECS 643. Additional projects required for CECS 643.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

544/644. Software Testing and Verification (3)
Prerequisite: CECS 543.
Testing/verification techniques for software development including black box, white box, incremental, top-down and bottom up, static and dynamic verification, performance, regression, thread, and stress testing. Object-oriented software testing with a hierarchical approach. Metrics for test and verification will be introduced.
Master’s students register in CECS 544 or 644; Ph.D. students register in CECS 644. Additional projects required for CECS 644. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).
545.645. Software Architecture (3)
Prerequisite: CECS 543.
Includes architectural styles, pipes and filters, data abstraction and object-oriented organization, event-based, implicit invocation, layered systems, nsp object, interpreters, process control, distributed processes, domain-specific software & heterogeneous architectures. Component-based design patterns & case studies.
Master's students register in CECS 545 or 645, Ph.D. students register in CECS 645. Additional projects required for CECS 645. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

546.646. Fault Tolerant Computing Systems (3)
Prerequisite: CECS 540.
Fault tolerant techniques are studied as tools to assure the reliability and continuous availability of computing systems. Case studies of modern fault tolerant systems reviewed. Software fault tolerant systems studied as alternatives to verification and validation approaches to software reliability.
Master's students register in CECS 546 or 646; Ph.D. students register in CECS 646. Additional projects required for CECS 646. (Lecture-problems 3 hours) Letter grade only (A-F).

547.647. Software Maintenance, Reengineering and Reuse (3)
Prerequisite: CECS 343 or equivalent.
Introduction to software maintenance, defect management, corrective, adaptive and perfective maintenance. Evolution of legacy software systems. Program comprehension techniques, reverse engineering, restructuring, refactoring of software systems. Software re-engineering, data reverse engineering. Software reuse. Impact analysis, regression testing.
Master's students register in CECS 547 or 647; Ph.D. students register in CECS 647. Additional projects required for CECS 647. (Lecture-problems 3 hours) Letter grade only (A-F).

549.649. Advanced Computer Graphics (3)
Prerequisite: CECS 449.
Master's students register in CECS 549 or 649; Ph.D. students register in CECS 649. Additional projects required for CECS 649. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

550.650. Pattern Recognition Using Artificial Intelligence (3)
Prerequisite: CECS 451 or consent of instructor.
General concepts of pattern recognition and trainable classifiers, decision theory, supervised learning, non-parametric techniques, rule-based systems and neural networks.
Master's students register in CECS 550; Ph.D. students register in CECS 650. Additional projects required for CECS 650. (Lecture-problems 2 hours, laboratory 3 hours) Not open for credit to students with credit in CECS 750. Letter grade only (A-F).

551.651. Advanced Artificial Intelligence (3)
Prerequisite: CECS 451.
Advanced concepts in artificial intelligence. Topics include knowledge acquisition and representation, fuzzy logic, logical reasoning, multi sensor integration, Dempster-Shafer theory, evidential reasoning, real-time expert systems and neural networks.
Master's students register in CECS 651 or 651; Ph.D. students register in CECS 651. Additional projects required for CECS 651. (Lecture-problems 3 hours) Letter grade only (A-F).

552.652. Computer Simulation and Modeling (3)
Prerequisites: EE 380 (or MATH 380) and CECS 326. Studies of general purpose and special simulation software. Model verification including graphical models Applications in various areas.
Master's students register in CECS 552 or 652; Ph.D. students register in CECS 652. Additional projects required for CECS 652. (Lecture-problems 3 hours) Letter grade only (A-F).

553.653. Machine Vision (3)
Prerequisite: Graduate standing in engineering or computer science. Discussion and laboratory implementation of current research in vision and image understanding. Topics include image formation, color processing, segmentation, relational structures in 2 D and 3 D, motion, stereo, 3 D reconstruction, morphological methods and computer architecture for machine vision.
Master's students register in CECS 553 or 653; Ph.D. students register in CECS 653. Additional projects required for CECS 653. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

561.661. Hardware/Software Co-design (3)
Prerequisite: CECS 341 or 440.
Introduction to top down methods for hardware/software system-on-chip co-design. Design flow - system specification, software implementation, hardware synthesis, system design, and verification. Process optimization with various design decisions emphasized. Project/case studies using system-level design methods and tools.
Additional projects required for CECS 561. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

570.670. Concurrent Parallel Programming (3)
Prerequisite: CECS 328, or 341, or 440.
Introduction to concurrent and parallel programming for multiprocessor and distributed systems. Computational models and paradigms. Parallel programming languages and programming tools. Portable parallel programming and mapping techniques. Heterogeneous concurrent programming. Concurrent programming on local networks on workstations and personal computers.
Master's students register in CECS 570 or 670; Ph.D. students register in CECS 670. Additional projects required for CECS 670. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

572.672. Advanced Computer Networking (3)
Prerequisite: CECS 337 or 474.
Master's students register in CECS 572 or 672; Ph.D. students register in CECS 672. Additional projects required for CECS 672. (Lecture-problems 3 hours) Letter grade only (A-F).

574.674. Topics in Distributed Computer Systems (3)
Prerequisite: CECS 526 or 527 or 626 or 672.
Network operating systems vs distributed operating systems, research and design issues of distributed operating systems, resources and resource management in distributed systems, communication security and user authentication.
Master's students register in CECS 574; Ph.D. students register in CECS 674. Additional projects required for CECS 674. (Lecture-problems 3 hours) Letter grade only (A-F). Not open for credit to students with credit in CECS 673 or 773.

575.675. Object-Oriented Analysis and Design (3)
Prerequisite: CECS 475 and CECS 343 or 443 or 543.
An object-oriented approach to software development based on modeling objects from the real world. Object-oriented methodology from problem statement through analysis, system design, and object design. Implementation of object-oriented designs in various target environments. Case studies.
Master's students register in CECS 575 or 675; Ph.D. students register in CECS 675. Additional projects required for CECS 675. (Lecture-problems 3 hours) Letter grade only (A-F).
578/478. Introduction to Computer Security (3)
Prerequisite: CECS 323, 328, and one course selected from 472, 474, 476.
Controlling the risk of computer security. Security threats and vulnerabilities in the development and use of computer systems. Tools and controls that can reduce or block these threats. Law, privacy and ethics.
Additional projects required for CECS 578. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

590/690. Special Topics in Computer Science (3)
Prerequisites: Graduate standing and consent of instructor.
Each offering is based on an area in computer science and technology in which recent advances have been made.
Master’s students register in CECS 590 or 690. Ph.D. students register in CECS 690. Additional projects required for CECS 590. (Lecture—problems 3 hours) May be repeated to a maximum of 6 units with consent of department. Letter grade only (A-F).

621/621. Database Architecture (3)
Prerequisite: CECS 326 and 323 (or 421).
Relational database design theory a rigorous approach. Security, recovery, transaction management, distributed databases and query optimization.
Master’s students register in CECS 521 or 621; Ph.D. students register in CECS 621. Additional projects required for CECS 621. (Lecture—problems 3 hours) Letter grade only (A-F).

624/524. Advanced Topics in Programming Languages (3)
Prerequisite: CECS 424.
Intensive study of languages of current interest which support object-oriented, client-server, and multimedia applications (e.g., JAVA).
Master’s students register in CECS 524 or 624; Ph.D. students register in CECS 624. Additional projects required for CECS 624. (Lecture—problems 3 hours) Letter grade only (A-F).

625/525. Advanced Operating Systems (3)
Prerequisite: CECS 329 and 326.
Theoretical foundations of concepts applied in the design of operating systems. Control of concurrent processes, deadlocks, mutual exclusion, virtual memory, resource management and scheduling.
Master’s students register in CECS 525 or 625; Ph.D. students register in CECS 625. Additional projects required for CECS 625. (Lecture—problems 3 hours) Letter grade only (A-F).

628/528. Advanced Analysis of Algorithms (3)
Prerequisite: CECS 328, MATH 380 or EE 380.
Theoretical analysis of algorithms. Divide and conquer, dynamic programming and greedy algorithms; basic search and traversal techniques including search trees; sorting; matrix manipulations; NP-completeness.
Master’s students register in CECS 528 or 628; Ph.D. students register in CECS 628. Additional projects required for CECS 628. (Lecture—problems 3 hours) Letter grade only (A-F).

630/530. Advanced Computer Architecture I (3)
Prerequisite: CECS 341 or 440.
Master’s students register in CECS 530 or 630; Ph.D. students register in CECS 630. Additional projects required for CECS 630. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

631/531. Advanced Computer Architecture II (3)
Prerequisite: CECS 530.
Advanced computer architecture with emphasis on parallel processing, vector processors and multiprocessor systems. Dataflow computation, RISC/CISC. Hypercube Parallel software. Applications in artificial intelligence, signal/image processing, neural network and optical computing.
Master’s students register in CECS 531 or 631; Ph.D. students register in CECS 631. Additional projects required for CECS 631. (Lecture—problems 3 hours) Letter grade only (A-F).

643/543. Advanced Software Engineering (3)
Prerequisite: CECS 343 or 443.
Study of software engineering as a broad, problem-solving discipline. Includes structured programming and software project management.
Master’s students register in CECS 543 or 643; Ph.D. students register in CECS 643. Additional projects required for CECS 643. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

644/544. Software Testing and Verification (3)
Prerequisite: CECS 543.
Various types of software testing and verification techniques for software development including black box, white box, experimental, top-down and bottom-up, static and dynamic, performance, regression, thread, and stress testing. Discussion of object-oriented software testing with a hierarchical approach. Motions in complexity for testing, test, and verification plan will be introduced. Automatic software testing and some case studies.
Master’s students register in CECS 544 or 644; Ph.D. students register in CECS 644. Additional projects required for CECS 644. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

645/545. Software Architecture (3)
Prerequisite: CECS 543.
Includes architectural styles, pipes and filters, data abstraction and object-oriented organization, event-based, implicit invocation, layered systems, repositories, interpreters, process control, distributed processes, domain-specific software & heterogeneous architectures. Component-based design patterns & case studies.
Master’s students register in CECS 545 or 645; Ph.D. students register in CECS 645. Additional projects required for CECS 645. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

646/546. Fault Tolerant Computing Systems (3)
Prerequisite: CECS 530.
Fault tolerant techniques are studied as tools to assure the reliability and continuous availability of computing systems. Case studies of modern fault tolerant systems reviewed. Software fault tolerant systems studied as alternatives to verification and validation approaches to software reliability.
Master’s students register in CECS 546 or 646; Ph.D. students register in CECS 646. Additional projects required for CECS 646. (Lecture—problems 3 hours) Letter grade only (A-F).

647/547. Software Maintenance, Reengineering and Reuse (3)
Prerequisites: CECS 343 or equivalent.
Master’s students register in CECS 547 or 647; Ph.D. students register in CECS 647. Additional projects required for CECS 647. (Lecture—problems 3 hours) Letter grade only (A-F).
649./549. Advanced Computer Graphics (3)
Prerequisite: CECS 449.
Master's students register in CECS 549 or 649. Ph.D. students register in CECS 649. Additional projects required for CECS 649. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

650./550. Pattern Recognition Using Artificial Intelligence (3)
Prerequisite: CECS 451 or consent of instructor.
General concepts of pattern recognition and trainable classifiers, decision theory, supervised learning, non-parametric techniques, rule-based systems and neural networks.
Master's students register in CECS 550. Ph.D. students register in CECS 650. Additional projects required for Ph.D. students. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

651./551. Advanced Artificial Intelligence (3)
Prerequisite: CECS 461.
Advanced concepts in artificial intelligence. Topics include knowledge acquisition and representation, fuzzy logic, logical reasoning, multi-sensor integration, Dempster-Shafer's theory of evidential reasoning, real-time expert systems and neural networks.
Master's students register in CECS 551 or 651. Ph.D. students register in CECS 651. Additional projects required for CECS 651. (Lecture-problems 3 hours) Letter grade only (A-F).

652./552. Computer Simulation and Modeling (3)
Prerequisites: EE 380 or MATH 380 and CECS 326.
Studies of general purpose and special simulation software. Model verification including graphical models. Applications in various areas.
Master's students register in CECS 552 or 652. Ph.D. students register in CECS 652. Additional projects required for CECS 652. (Lecture-problems 3 hours) Letter grade only (A-F).

653./553. Machine Vision (3)
Prerequisite: Graduate standing in engineering or computer science.
Discussion and laboratory implementation of current research in vision and image understanding. Topics include image formation, easy processing, segmentation, relational structures in 2-D and 3-D motion, stereo, 3-D reconstruction, morphological methods and computer architecture for machine vision.
Master's students register in CECS 553 or 653. Ph.D. students register in CECS 653. Additional projects required for CECS 653. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

670./570. Concurrent Parallel Programming (3)
Prerequisite: CECS 328, or 341, or 440.
Introduction to concurrent and parallel programming for multiprocessing and distributed systems. Computational models and paradigms. Parallel programming languages and programming tools. Portable parallel programming and mapping techniques. Heterogeneous concurrent programming. Concurrent programming on local networks on workstations and personal computers.
Master's students register in CECS 570 or 670. Ph.D. students register in CECS 670. Additional projects required for CECS 670. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

672./572. Advanced Computer Networking (3)
Prerequisite: CECS 327 or 474.
Master's students register in CECS 572 or 672. Ph.D. students register in CECS 672. Additional projects required for CECS 672. (Lecture-problems 3 hours) Letter grade only (A-F).

674./574. Topics in Distributed Computer Systems (3)
Prerequisite: CECS 526 or 572 or 626 or 672.
Network operating systems vs distributed operating systems, research and design issues of distributed operating systems, resources and resource management in distributed systems, communication security and user authentication.
Master's students register in CECS 574. Ph.D. students register in CECS 674. Additional projects required for CECS 674. (Lecture-problems 3 hours) Letter grade only (A-F). Not open for credit to students with credit in CECS 773.

675./575. Object-Oriented Analysis and Design (3)
Prerequisites: CECS 475 and CECS 343 or 443 or 543.
An object-oriented approach to software development based on modeling objects from the real world. Object-oriented methodology from problem statement through analysis, system design, and object design. Implementation of object-oriented design in various target environments. Case studies.
Master's students register in CECS 575 or 675. Ph.D. students register in CECS 675. Additional projects required for CECS 675. (Lecture-problems 3 hours) Letter grade only (A-F).

690./590. Special Topics in Computer Science (3)
Prerequisites: Graduate standing and consent of instructor.
Each offering is based on an area in computer science and technology in which recent advances have been made.
Master's students register in CECS 590 or 690. Ph.D. students register in CECS 690. Additional projects required for CECS 690. (Lecture-problems 3 hours) May be repeated to a maximum of 6 units with consent of department. Letter grade only (A-F).

694. Seminar in Computer Science (3)
Prerequisite: 6 units of 500 or 600 level CECS courses.
Intensive study of a broad selection of conceptual and theoretical problems in computer science. A written student research project and an oral presentation are required. Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Classified Graduate standing.
Theoretical and experimental problems in computer science and engineering requiring intensive analysis.
Independent Study. Letter grade only (A-F).

698. Thesis or Industrial Project (2-6)
Prerequisite: Advancement to Candidacy.
Planning, preparation, completion of thesis or equivalent industrial project report on a suitable topic in computer engineering and computer science following the library's prescribed format. Requires consultation with Graduate Advisor and submission of Agreement for Independent Study form each semester. May be repeated to a total of 6 units.

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Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Consumer Affairs

Consumer Affairs provides students with a foundation in Consumer Advocacy, Personal Financial Management, and Housing Services. The program focuses on how businesses, government agencies, and community organizations interact with families and consumers.

Option in Consumer Affairs (code FCS_BA03) (120 units)

ACCT 201; ECON 100 and 101 or 300; ENGL 101, 317, 417, 418, or 419; CAFF 223, 226, 321, 322, 420, 422, 425, 426, 429, 492C or three units of FCSE 497; CDFS 312; FCSE 290, 387, 496, 499; MKTG 300, 400; PSY 100; SOC 100; CILA 250 or SOC 250; plus 9 units of advisor approved electives. Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Consumer Affairs Area Coordinator.

Minor in Consumer Affairs (code FCS_U001)

Eighteen units as approved by a Consumer Affairs faculty advisor. Nine units of required courses include: CAFF 420, 422, 425, 426, and 420 are required to complete the minor.

The Minor in Consumer Affairs is available to any non-Consumer Affairs major.

Consumer Affairs Courses (CAFF)

LOWER DIVISION

223. Personal and Family Financial Management (3)
Prerequisite: Completion of G.E. Foundation courses. A functional approach to personal finance including budget systems, consumer credit, insurance, debt collection systems, status obligation, accumulating reserves. Applicable for personal and professional use.
(Lecture-discussion 3 hours.)

226. Consumer Life Skills (3)
Prerequisite: Completion of the G.E. Foundation courses. Consumer life skills with an emphasis on practical applications in the marketplace. Includes the history of the consumer movement, consumer rights and responsibilities, financial wellness, consumer debt, consumer behavior, fraud, and consumer redress.
(Lecture-discussion 3 hours.)
228. Housing In Global Perspective (3)
Prerequisites: Completion of G.E. Foundation courses.
Family housing options and choices in urban and rural areas throughout the world viewed within the context of history, politics, culture, art, environment, geography, technology and economics. (Lecture-discussion, 3 hours.)

UPPER DIVISION

309L. The Consumer in the Legal and Economic Environment (3)
Prerequisites: Completion of G.E. Foundation courses; completion of one or more Exploration courses; upper division standing. Incorporates an integrated coverage of the economic, legal, ethical and regulatory environment of consumers in avoiding and resolving disputes regarding fraudulent transactions, financial matters, personal and real property contracts, torts, credit and investment issues, and family relationships. Team taught. (Lecture-discussion 3 hours.) Same course as FIN 309L. Not open for credit to students with credit in FIN 309L.

321L. Family and Consumer Resource Management (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper division standing.
Basic management principles applied to personal and family settings. Examines role of values, goal formation, decision making, planning, implementing, and evaluation of managerial behavior in diverse family and cultural settings.
Latter grade only (A-F). (Lecture discussion 3 hours.)

322. Family Housing and the Urban Community (3)
Prerequisites: Upper division standing.
Critical analysis of family housing in urban community including aspects of shelter, city and service providers. Sociological, psychological, legislative, economic and technical factors investigated. Special attention given to families of various structures and socioeconomic background.
(Discussion 3 hours.)

420. Personal Finance for the Aging (3)
Prerequisites: 400-level course in Consumer Affairs or consent of instructor.
Personal finance as applied to the aging population.
Same course as GERM 420. Not open for credit to students with credit in GERM 420. (Lecture-discussion 3 hrs.)

422. Housing Policies: Public and Private (3)
Prerequisites: CAFF 322; upper division standing or consent of instructor.
Federal, state and local policies, programs and legislation concerning housing and urban development. Analysis of the housing industry and its influence on the consumer market.
Latter grade only (A-F). (Discussion 3 hours.)

424. Independent Living for Disabled and Elderly Persons (3)
Prerequisites: CAFF 321L or 322 or GERM 400L or consent of instructor.
Independent living concepts related to physically and/or functionally disabled adults. Personal, environmental and programmatic responses to disability and aging.
Latter grade only (A-F). Same course as GERM 424. Not open for credit to students with credit in GERM 424. (Lecture-Activity 3 hours.)

425. Personal Financial Planning Analysis (3)
Prerequisite: CAFF 223 or consent of instructor.
Analysis and protection of personal and family resources; planning and forecasting goals; development of financial strategies utilizing insurance, investment, tax management, pensions, wills and trusts. (Lecture discussion 3 hours.)

426. Family Financial Problems (3)
Prerequisite: CAFF 223 or consent of instructor.
Theory and practice in the diagnosis of family financial crises; selecting alternative solutions; constructing practical methods for the prevention of family financial problems. (Discussion 2 hours, laboratory 3 hours.)

429. Consumer Protection (3)
Prerequisite: Upper Division course in consumer affairs or consent of instructor.
Concepts of consumer protection with analysis of a myriad of resources available for individuals and families with consumer problems.
(Seminar 3 hours.)

492C. Internship in Consumer Affairs (3)
Prerequisites: Student must be a Family and Consumer Sciences: Consumer Affairs major; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Consumer Affairs; and CAFF 226, 321L, 422, 425, 426, or consent of instructor. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student with supervisor must be approved by major advisor and form the basis for evaluation.
May be repeated for 6 units maximum. (Seminar 3 hours.)
CRIMINAL JUSTICE
College of Health and Human Services

Department Chair: Henry F. Fradella
Department Office: Social Science Public Affairs Bldg. (SS/PA), Room 238
Telephone: (562) 903-6343
Faculty: Lisa A. Borbeza, Henry F. Fradella, Judy Halls, Connie Ireland, Ali Malem, Harvey N. Morley, Lisa Murphy, Tracy Tolbert, Sam Torres, Brenda Vogel, John Wang
Undergraduate Advisor: Sam Torres
Graduate Advisor: Connie Ireland
Internship Coordinator: Harvey N. Morley
Office Manager: Darrell Dow

CAREER OPTIONS

- Police Officer
- Probation Officer
- Claims Representative
- Private Investigator
- Customs Agent
- Special Agent
- FBI
- Health & Safety Inspector
- Criminologist
- Game Warden
- Park Ranger
- Alcohol-Tobacco-Firearms Agent
- Correctional Officer
- Paralegal
- Immigration Inspector
- Intelligence Analysis-CIA
- Family Officer
- Teacher
- Prison Administrator
- Lawyer
- Credit Investigator
- Border Patrol Agent

Some of these careers require additional education or experience. Various entry-level trainee positions in business and industry are available for graduates regardless of academic discipline.

Introduction

The Department of Criminal Justice works collaboratively to investigate, understand, and solve social problems related to crime through the interdisciplinary and comparative study of crime and criminal behavior, as well as the policies and systems designed to control criminality. We offer both the baccalaureate and master's degrees in criminal justice, as well as an undergraduate minor in criminal justice. All of these programs are interdisciplinary in nature. Through a social scientific lens, our challenging curricula are designed to sharpen students' reasoning, ethical decision making, problem solving, and communication abilities. Graduates of our degree programs are well-prepared to become agents of positive change in the justice system through evaluation, research, ethical practice, and dedicated service. Graduates are also well-prepared to pursue advanced degrees in criminology/criminal justice, law, public affairs, and related graduate fields.

UNDERGRADUATE PROGRAMS

Bachelor of Science in Criminal Justice (code CRIMBS01) (120 units)

The program in criminal justice offers the bachelor of science degree to individuals interested in seeking a comprehensive education leading to a professional career in criminal justice. The program is designed to accommodate the needs of new college students, the continuing student, the transfer student, and the experienced criminal justice practitioner. We now offer sufficient courses in the evenings for students to graduate with a degree in criminal justice without taking daytime classes.

Students intending to transfer from community colleges to this University for a bachelor of science degree in criminal justice are advised to complete general education requirements while attending the community college. Courses equivalent to CRJU 101, The Criminal Justice System in Society, and lower division cognate courses (SOC 100, PSY 100, POSC 100 and PHIL 170), should be taken while attending community college. Other criminal justice courses taken at community colleges will be accepted as lower division electives provided the college where they were taken designated them as transferrable to CSU. These courses can not be substituted for upper division criminal justice courses.

Admission Under Impaction to the Bachelor of Science in Criminal Justice

To be eligible for admission to the major in Criminal Justice, applicants must have met requirements for admission to the university as a freshman or transfer student. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission for admission based on cumulative GPA of 2.4. At least 30 units applicable to a CSULB degree must have been completed prior to the term for which an application for admission is submitted, and must include SOC 100, PSY 100, POSC 100 and PHIL 170. Applicants are also encouraged to complete CRJU 101 and CRJU 110.

Admission to the Major

To be eligible for admission to the major in criminal justice, applicants must have met requirements for admission to the university as a freshman or transfer student. Additionally, applicants to the major must have completed 30 units applicable toward a CSULB degree prior to the term for which the application to be a criminal justice major is submitted. It is highly recommended that our lower division cognate courses be completed as part of these 30 units (SOC 100, PSY 100, POSC 100, and PHIL 170). The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on cumulative grade point average with a minimum of 2.4.

Students intending to transfer from community colleges to this University for a bachelor of science degree in criminal justice are advised to complete general education requirements while attending the community college. Transfer students are also encouraged to complete our lower-division cognate courses (SOC 100, PSY 100, POSC 100, and PHIL 170) prior to matriculating as a Criminal Justice major. Courses equivalent to CRJU 101, Criminal Justice in Society, and CRJU 110, Introduction to Justice Research, Writing, and Reasoning, should also be taken while attending community college. Other criminal justice courses taken at community college...
colleges will be accepted as lower division electives provided
the college where they were taken designated them as
transferable to CSU. These courses cannot be substituted for
upper division criminal justice courses.

Requirements
1. Major Course Requirements: Completion of forty-six (46)
units of criminal justice as follows:
   A. Completion of thirty-four (34) units of the following
      required core classes: CRJU 101, 110, 301, 302, 303,
      304, 320, 325, 330, 340, and 350.
   B. Completion of three (3) units by taking one of the
      following restricted options courses: CRJU 401, 402,
      403, 404, 405, or an approved 490 special topics course.
   C. Completion of three (3) units by taking any upper-
      division elective criminal justice course (i.e., a course not
      in the required core or restricted options), or EMER 405.
   D. Completion of six (6) units of an upper division
      integrative experience in one of the following three
      ways (note that options 2 and 3 require permission of a
      sponsoring faculty member):
         1. CRJU 492: Internship (6 units); or
         2. CRJU 497: Independent Study/Directed Research (3
            units) and any 400-level CRJU elective; or
         3. CRJU 497: Independent Study/Directed Research (3
            units) and CRJU 498: Thesis (3 units).

Each core or restricted option courses on the student's
program planner must be completed with a grade of "C" or
better. In addition, a course which a grade lower than "C"
is received must be retaken and successfully completed
prior to enrolling in a course for which it is a prerequisite. A
student receiving a grade lower than a "C" may proceed with
other courses with approval of the undergraduate advisor or
department chair.

2. Cognate Course Requirements: In addition to the 46
units of criminal justice coursework specified above, all
students are required to take six cognate courses (18
units) in related disciplines: SOC 100, PSY 100, PSY 370I,
POS 100, PHI 170, and either PHI 262I or PHI 451I.
All six of these cognate courses satisfy CSULB General
Education requirements. Thus, Criminal Justice students
have a pathway towards meeting their General Education
requirements in a thematic manner that is relevant to the
study of Criminal Justice.

Minor in Criminal Justice (code CRIMUM01)

Requirements
The minor in criminal justice requires completion of a
minimum of twenty-one (21) units as follows:
1. Completion of eighteen (18) units of the following
   required core classes: CRJU 101, 110, 301, 302, 303,
   and 304.
2. Completion of three (3) units by taking either CRJU 340
   or 350.
All courses in the criminal justice minor must be taken for
a letter grade only (A-F) and must be successfully completed
with a grade of "C" or higher. CRJU 101 and CRJU 110
are prerequisites for all core courses at the 300-level. All
300-level courses must be taken in residence at CSULB and,
therefore, may not be transferred in from other colleges or
universities.

Admission to the Minor
The minor in criminal justice is available to any non-
criminal justice major. Students who would like to declare
or change to criminal justice as their minor must have
an overall G.P.A. of 2.0 and be enrolled in or have completed
CRJU 101 or an equivalent course at another college or
university. Alternative admission requirements may apply
during times when the department is impacted.

GRADUATE PROGRAMS

Master of Science in Criminal Justice
(code CRIMMS01)

Graduate study in criminal justice provides the
required knowledge and opportunity for individuals to
(1) be competitive for administrative positions in the courts,
corrections, law enforcement, security, probation and
parole, (2) fill research positions in criminal justice agencies,
(3) pursue advanced degrees (J.D. or Ph.D.); and (4) fill
community college teaching positions in criminal justice.
The Master of Science degree in criminal justice will
expand and increase individual competency, develop and
mature thought processes, aid in gaining insights into
professional leadership and knowledge, permit an exchange
between students and faculty, and further the spirit of
research and scholarship to enhance professional and
personal development.

Admission
Students seeking admission to the Department of Criminal
Justice Graduate Program should have an undergraduate
degree and a desire for graduate study. Applicants must
apply for admission to the Criminal Justice Department in
addition to being admitted by Enrollment Services. Students
must be accepted for admission by the Department before
their program for a master's degree can be formulated.
Students are not allowed to take graduate course work in
criminal justice before being accepted to the program.
The following items must be submitted:
1. Two copies of the CSULB graduate application. The
   original must be sent to Enrollment Services and a copy
   must be sent to the Department of Criminal Justice.
2. Official test scores on the Graduate Record Exam (GRE)
   General Test. While no specific cut-off scores are
   required on either the verbal or the quantitative sections, applicants
   must score a "4" or higher on the analytic writing section of
   the GRE.
3. Official transcripts of all undergraduate course work,
   including work done at all community colleges attended.
   Each applicant must request that official transcripts be
   sent to both the Graduate Advisor in the Criminal Justice
   Department and Enrollment Services.
4. A resume and a letter of intent that includes a summary
   of the applicant's reasons for seeking a master's degree
   in criminal justice. Both documents must be sent to the
   Department's Graduate Advisor.
5. Three letters of recommendation from persons able to
   testify to the student's academic ability, preferably from
   former professors. These letters must be sent to the
   Department of Criminal Justice Graduate Advisor.
Prerequisites

1. A bachelor’s degree with a major or minor in criminal justice or a related discipline. The acceptability of other undergraduate preparation shall be determined by the Department Graduate Committee.

2. A student must have an overall undergraduate average (GPA) and average in their major of 3.0 or better. A student whose overall grade point average is less than 3.0, but who presents acceptable evidence of professional potential either through recent academic performance and/or experiential background, may be admitted by special action of the Department’s Graduate Committee.

Adancement to Candidacy

1. Students must satisfy the general University requirements for advancement to candidacy, as specified in this catalogue.

2. Before advancing to candidacy, students must successfully complete fifteen (15) graduate units within the core (CRJU 504, 520, 525, 530, and PPA 500) with a minimum grade of “B” in each of the courses.

3. Before advancing to candidacy, students must have fulfilled the Graduation Writing Assessment Requirement (GWAR) and have successfully passed the departmental qualifying examination.

4. Each student’s graduate program must be approved by the Department Graduate Advisor, the Department Chair, and the Associate Dean of the College of Health and Human Services.

Requirements

1. Completion of eighteen (18) units of required core classes: CRJU 504, 520, 525, 530, 551, and PPA 500.

2. Successful passage of the departmental qualifying examination testing graduate-level competency in statistics, research methods, and criminological theory.

3. Completion of eighteen (18) additional graduate units in one of two ways:
   A. Thesis Option: Twelve (12) units of advisor-approved electives and CRJU 694 and 698.
   B. Comprehensive Examination Option: Eighteen (18) units of advisor-approved electives and successful completion of the comprehensive master’s essay examination in either policing, corrections, law and social control, or other authorized subject area.

Note: Masters students who were admitted under a prior catalog year need to complete the course requirements specified in the catalog in effect at the time they advance to candidacy. All graduate students have the option of taking comprehensive examinations even if such exams were not listed as an option in the catalog at the time the student matriculated.

In addition to the core classes, students are required to complete 12 units of electives. These courses are to be selected after consultation with the graduate advisor.

A maximum of 6 units may be taken from 300 or 400-level courses in Criminal Justice. Up to six units of graduate work may be transferred from another accredited university or another department in CSULB. Transfer credit must be a “B” or better. All students must earn a grade of “A” or “B” for each required course. Students may not have more than 6 units of “C” grades apply toward the master’s degree. Advancement to candidacy is necessary before Thesis I, Thesis II, or comprehensive exams can be taken.

Thesis

The thesis is a supervised experience in the application of theory and analytical tools to issues in criminology or criminal justice. The thesis should prepare students for further graduate work or research in the field. The project should provide an experience that is directly applicable to an occupation in the criminal justice field.

The thesis is a written product of the systematic study of a significant problem. It clearly identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendations. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. The coursework is supervised by a committee of three, including the Thesis Chair, who must be a full-time tenured-track or tenured faculty member in the Criminal Justice Department and two other faculty members.

Courses (CRJU)

LOWER DIVISION

101. The Criminal Justice System in Society (3)
Prerequisites/Corequisites: One GE Foundation Course (may be taken concurrently).
Introduction to study of criminal justice in American society. Focuses on the history, philosophy, functions, roles, policies, practices, and ethics of the institutions of social control within the criminal justice system, especially police, courts, and correctional personnel.
Letter grade only (A-F). Not open for credit to students with credit in CRIM 101.

110. Introduction to Justice Research, Writing, and Reasoning (3)
Prerequisites/Corequisites: ENGL 100.
Develops the skills needed to conduct and properly cite library and electronic research for social sciences and legal sources, and use them to make persuasive oral presentations and write papers, case briefs, and reports commonly used in the justice professions.
Letter grade only (A-F).

210. Gangs: Structure, Activities, and Responses (3)
An interdisciplinary examination of the factors that contribute to gang formation and membership; the structure and function of gangs; gang activities (including crime); and the various policy and programmatic responses to gangs.
Letter grade only (A-F).

220. Terrorism and the Criminal Justice System (3)
A video and text-based exploration of the origins and reasons for terrorist activity and their effect on select criminal justice agencies in the U.S. and around the world.
Letter grade only (A-F).

230. Survey of the Forensic Sciences (3)
The application of scientific principles to criminal investigations and trials, focusing on crime scene analysis and recording; analytical methods of criminalistics; significance of results; and the specialized roles of criminalists and forensic biologists, chemists, ballistics, medicine, dentistry, entomology, and psychology.

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290. Special Topics in the Criminal Justice System (3)
Introduction courses of current interest in the field of criminal justice selected for intensive development. Topics are announced in the Schedule of Classes. May be repeated for a maximum of 9 units with different topics in different semesters.

Upper Division

301. Criminal Courts and Judicial Processes (3)
Prerequisites/Corerequisites: CRJU 101 and 110 (may be taken concurrently).
Examines the structure and operation of the criminal court systems of the U.S. at the local, state, and federal levels, including their respective jurisdictions. Emphasizes pretrial and adjudication processes and the organizational roles and behaviors within the court system.
Not open for credit to students with credit in CRIM 351. Letter grade only (A-F).

302. Policing (3)
Prerequisites: CRJU 101 and 110 (may be taken concurrently).
The historical evolution of policing as an institution of social control with emphasis placed on the contemporary roles of police officers, including patrol strategies, training procedures, ethical standards, and discretion. Consideration underrepresented groups in policing and corruption in police agencies.
Not open for credit to students with credit in CRIM 483. Letter grade only (A-F).

303. Corrections: Theory, Policy and Practice
Corrections (3)
Prerequisites: CRJU 101 and 110 (may be taken concurrently).
Overview of institutional and community corrections. Examination of differing penal institutions. Evaluation of rehabilitation as crime control strategy. Alternatives to incarceration will be explored as criminal sanctions.
Not open for credit to students with credit in CRIM 468. Letter grade only (A-F). Field trips may be required.

304. Criminological Theory (3)
Prerequisites: CRJU 101 and 102.
Examination of theories of crime and crime control policies. Political, social, and economic contexts are used to explore the ecology of criminal behavior. Criminological theories are traced through history by focusing on connections to biology, psychology, and sociology.
Not open for credit to students with credit in CRIM 404. Letter grade only (A-F).

320. Criminal Justice Research Methods (3)
Prerequisites: CRJU 101, 110, and 304 (may be taken concurrently).
Introduction to basic techniques in criminal justice research, including sampling, data collection, construction, evaluation techniques, and participant observation. Focus on bridging the gaps between theory, research, and policy.
Not open for credit to students with credit in CRIM 480. Letter grade only (A-F).

325. Statistics for Criminal Justice (4)
Prerequisites: CRJU 101, 110, and 320.
Descriptive and inferential statistics covering univariate, bivariate, and multivariate statistical techniques. Focus on probability theory, significance testing, inferential statistics used for quantitative data analysis by criminal justice researchers and administrators. Includes laboratory using statistical software packages.
Letter grade only (A-F). (Lecture 3 hours, laboratory workshop 1 hour.)

330. Criminal Justice Ethics, Values, and Diversity (3)
Prerequisites: CRJU 302 and 303.
Identifies and explores ethics and values in the criminal justice system, paying special attention to issues of social inequality. Discusses remedial strategies and behavior relating to unethical behavior from an individual and group perspective.
Not open for credit to students with credit in CRIM 305. Letter grade only (A-F).

340. Substantive Criminal Law (3)
Prerequisites: CRJU 101, 110, and 301.
Analysis of the historical development of criminal law and the underlying principles used to interpret it. Focuses on statutory construction and case law construction of the elements and defenses to major crimes, and the public policy implications of these interpretations.
Letter grade only (A-F).

350. Constitutional Criminal Procedure (3)
Prerequisites: CRJU 101, 110, and 301.
A study of criminal procedures mandated by the U.S. Constitution, emphasizing searches and seizures under the Fourth Amendment, the right to counsel under the Sixth Amendment, and due process under the Fourteenth Amendment.
Not open for credit to students with credit in CRIM 451. Letter grade only (A-F).

401. Victimology (3)
Prerequisites: CRJU 101, 110, and 304.
Explores victimology in the perpetration, apprehension, prosecution, and punishment of crime, as well as criminal victimization by race, class, gender, ethnicity, and sexual orientation. Focuses on patterns of over-representation and critically evaluates the major explanations for this phenomenon.

402. Crime and Inequality (3)
Prerequisites: CRJU 301 and 304.
Examines racial, social, and economic factors in crime. Explores the role of crime and punishment of crime as well as crime victimization by race, class, gender, ethnicity, and sexual orientation. Focuses on patterns of over-representation and critically evaluates the major explanations for this phenomenon.

403. Comparative Criminal Justice and Transnational Crimes (3)
Prerequisites: CRJU 101, 110, and 304.
An examination of criminal justice systems around the world and the relationship between crime and power. Political, social, and economic environments are studied in relation to varying criminological practices. Includes the role of international law, international criminal courts, the UN, and Interpol.
Not open for credit to students with credit in CRIM 484.

404. Terrorism, Homeland Security, and Criminal Justice (3)
Prerequisites: CRJU 101, 110, and 304.
Explores the dynamics of terrorism, terrorism, and the role of law enforcement in combating terrorism. Focuses on the role of law enforcement in combating terrorism.

406. Delinquency and the Juvenile Justice System (3)
Prerequisites: CRJU 101, 110, and 304.
Theoretical foundations of delinquency causation. Historical tracing of the American juvenile justice system including the juvenile court and its jurisdiction. Police interaction with juveniles, treatment
410. Police Administration (3)  
**Prerequisites:** CRJ 302 and 330.  
An organizational management and systems approach to the study of police administration. Emphasizes the administration of various police functions, organizational structures, resources management, operational techniques, professional ethics, and leadership principles and their implications for generalized and specialized units.  
Not open for credit to students with credit in CRIM 325.  

412. Criminal Investigation (3)  
**Prerequisites:** CRJU 101, 110, and 302.  
Study of basic principles of criminal investigation, analysis of investigative techniques, pattern and modus operandi, interviewing and interrogation strategies, collection and management of evidence, surveillance, and crime scene investigation. Theories, philosophies, and concepts related to suppression of crime are covered.  
Not open for credit to students with credit in CRIM 361. Letter grade only (A-F).  

420. Legal Aspects of Corrections (3)  
**Prerequisites:** CRJ 101, 110, and 303.  
An overview of court decisions related to corrections. Study of current legal issues and their impact on correctional policies and procedures.  
Not open for credit to students with credit in CRIM 358.  

421. Probation, Parole and Community Corrections (3)  
**Prerequisites:** CRJU 101, 110 and 303.  
Focus is on probation, parole and other intermediate sanctions and community treatment options. Each is examined from both punishment and treatment model perspectives. The pre-sentence investigation (PSI) will be analyzed. Supervision of offender in community and revocation will be discussed.  
Not open for credit to students with credit in CRIM 470. Field trips may be required.  

422. Correctional Counseling  
**Prerequisites:** CRJU 101, 110, and 303  
Techniques of counseling strategies utilized by correctional workers, including reality therapy, behavior modification, group counseling, and 12 step programs. Evaluation of the effectiveness of correctional treatment with emphasis on treatment of substance abuse, mental illness, sex offenders, and female offenders.  

423. Correctional Environments (3)  
**Prerequisites:** CRJU 101, 110, and 303.  
An introduction to American penology through six all-day field trips to city, county, state, and federal correctional facilities. Includes observations of juvenile court proceedings and visits to county juvenile halls, a juvenile treatment facility, and a state youthful offender institution.  
Not open for credit to students with credit in CRIM 369. Letter grade only (A-F). Special start dates and end dates apply; full-day field trips are required. Course fee may be required.  

430. Criminal Evidence and Trials (3)  
**Prerequisites:** CRJU 301, 340, 350; and consent of instructor.  
Using a mock trial approach, an in depth study of procedural, evidentiary, tactical, and ethical problems experienced by lawyers, witnesses, and defendants. Emphasis on the rules of evidence and expert testimony as it relates to policing and the forensic sciences.  

440. Criminalistics: Forensic Science in the Crime Laboratory (3)  
**Prerequisite:** CRJU 230 or consent of the instructor.  
Overview of general principles of forensic science, techniques, equipment, and methodologies as used in crime laboratories. Focus on fingerprint and firearm identification, trace evidence (hair, fiber, paint, glass), blood, DNA evidence, forensic document examination, crime scene kits, and forensic microscopy.  
Not open for credit to students with credit in CRIM 462. Letter grade only (A-F).  

441. Investigating High-Tech Crimes (3)  
**Prerequisite:** CRJU 230 or consent of the instructor.  
Overview of general classification, devices, microscopy, and methodologies in investigating high-tech crimes. Focuses on counterfeiting and fraud related to U.S. currency, credit card, checks, drive’s license, social security cards, DVD/CD, cable TV box/satellite TV cards, and computer-based “cybercrimes.”  
Not open for credit to students with credit in CRIM 463. Letter grade only (A-F).  

442. Forensic Psychology and the Criminal Justice System (3)  
**Prerequisites:** CRJU 301.  
An interdisciplinary examination of the relationship between psychiatry, clinical psychology, and the criminal justice system with regard to mentally ill criminal offenders. Focus is on the legal standards for determining various criminal competencies, insanity, diminished capacity, and related defenses of excuse.  

443. Forensic Pathology and the Medical-Legal Investigation of Death (3)  
**Prerequisite:** CRJU 230 or consent of the instructor.  
A multimedia examination of the medicolegal investigation of death. Focuses on autopsies and the anatomic pathologic evidence of natural and unnatural deaths, accidental deaths, suicides, and homicides. Special attention is paid to deaths by gunshot wound, sharp force injury, blunt force trauma, asphyxiation, and electrocution.  
Letter grade only (A-F). Field trips may be required.  

450. Domestic Violence and the Criminal Justice System (3)  
**Prerequisites:** CRJU 101, 110, 301, 302, and 304.  
Domestic violence is studied as a phenomenon that impacts the criminal justice system. Spousal/intimate partner abuse, child abuse, and elder abuse are studied from a multidisciplinary perspective. Strategies for criminal justice personnel handling these cases are stressed.  
Not open for credit to students with credit in CRIM 492.  

460. Substance Abuse and the Criminal Justice System (3)  
**Prerequisites:** CRJU 101, 110, and 304.  
Biological, psychological, and social factors in alcohol and drug use, abuse and addiction. Legal and social elements of substance abuse and their relationship to criminal justice system. Characteristics of controlled substances; categories of drug offenses; and investigation of drug cases.  
Not open for credit to students with credit in CRIM 459.  

490. Advanced, Specialized Topics in Criminology and Criminal Justice (3)  
**Prerequisites:** Completion of 300-level core courses or consent of instructor.  
Advanced and specialized topics of current interest in the field of criminal justice selected for intensive development. Topics are announced in the Schedule of Classes.  
May be repeated to a maximum of 9 units with different topics in the same semester.
492. Internship (6)  
Prerequisites: (1) Departmental Consent; and (2) Completion of 300-level Core (CRJU 301, 302, 303, 304, 320, 325, 330, 340, and 350) or consent of instructor.  
Supervised work experience in a criminal justice agency.  
Letter grade only (A-F). Not open for credit to students employed in criminal justice agencies.

493. Professional Development for Criminal Justicians  
Prerequisites/Corequisites: Consent of the instructor.  
A structured work class to facilitate career development in the justice professions, including those in academia. Includes practical instruction on job application strategies (i.e., job searching, writing cover and inquiry letters, resume preparation) and successful interviewing techniques.  
Credit/No Credit grading only.

497. Directed Research or Independent Study (1-4)  
Prerequisites: Consent of instructor.  
For students who wish to learn about a topic related to criminology, criminal justice, or forensics in greater detail through independent reading and writing assigned by a faculty member.  
May be repeated to a maximum of 9 units.

498. Senior Thesis (3)  
Prerequisites/Corequisites: Completion of 300-level core courses, a minimum 3.0 grade point average and consent of instructor.  
For students who wish to engage in intensive guided research and write a thesis under the direction of a panel of three faculty members. Highly recommended for students who plan to pursue graduate or law school.  
May be repeated for a maximum of 6 units with the same topic.

GRADUATE LEVEL

504. Criminological Theory (3)  
Prerequisite: Restricted to criminal justice masters students; all other students must have consent from the Graduate Advisor.  
Exploration of theories and policy implications of crime. Political, social, and economic contexts will be used to explore the ecology of criminal behavior. Underpinnings of criminological theory are traced through history by focusing on connections to biology, psychology, and sociology.

Not open for credit to students with credit in CRIM 504. Letter grade only (A-F).

520. Advanced Criminal Justice Research Methods (3)  
Prerequisites: CRJU 300 and 325 or comparable undergraduate research methods and statistics courses approved by the Graduate Advisor. Restricted to Criminal Justice masters students; all other students must have consent from Graduate Advisor.

An in-depth exploration of the scientific methods used in criminology and criminal justice research, including research design and both quantitative and qualitative research methodologies. Special attention is paid to the ethics of human subjects research.

Not open for credit to students with credit in CRIM 583. Letter grade only (A-F).

525. Advanced Statistics for Criminal Justice (3)  
Prerequisites: CRJU 320 and 325 or comparable undergraduate research methods and statistics courses approved by the Graduate Advisor. Restricted to Criminal Justice masters students; all other students must have consent from Graduate Advisor.

Nonparametric, bivariate, and multivariate inferential statistics that are used for quantitative data analysis by criminal justice researchers and practitioners.

Not open for credit to students with credit in CRIM 582. Letter grade only (A-F).

530. Criminal Justice Ethics, Values, and Diversity (3)  
Prerequisites: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.  
Identifies and explores ethics and values in the criminal justice system, paying special attention to issues of social inequality. Discusses remedial strategies and behavior relating to unethical behavior from an individual and group perspective.

Not open for credit to students with credit in CRIM 512. Letter grade only (A-F).

551. Proseminar in Criminology and Criminal Justice (3)  
Prerequisite: CRJU 504. Restricted to Criminal Justice master's students; all other students must have consent from Graduate Advisor.

Critical analysis and comparative review of a wide array of professional literature in criminology and criminal justice. Focuses on both classic and contemporary literature related to the philosophical, social, political, and legal issues affecting the American criminal justice system.

Not open for credit to students with credit in CRIM 581. Letter grade only (A-F).

604. Terrorism, Homeland Security, and Criminal Justice (3)  
Prerequisites: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.  
Set against the background of our global community, an examination of the relationship between the historical and contemporary motivations and goals of terrorism, United States Homeland Security and select aspects of the United States criminal justice systems.

Letter grade only (A-F).

621. Administration and Management of Criminal Justice Organizations (3)  
Prerequisites: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.  
Introduction to the management of criminal justice agencies in the U.S. Examines the purposes, goals, and functions of administrative principles from a multidisciplinary systems perspective to develop both a theoretical and practical understanding of criminal justice leadership and management.

Not open for credit to students with credit in CRIM 621. Letter grade only (A-F).

631. Legal Issues in Criminal Justice (3)  
Prerequisites: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.  
Analysis of current and controversial legal issues in the criminal justice system focusing on controversial decisions of the U.S. Supreme Court.

Not open for credit to students with credit in CRIM 551. Letter grade only (A-F).

640. Criminalistics: Forensic Science in the Crime Laboratory (3)  
Prerequisite: Restricted to criminal justice masters students only; all others require consent of the Graduate Advisor.  
Overview of general principles of forensic science, techniques, equipment, and methodologies as used in crime laboratories.  
Focus on fingerprint and firearm identification, trace evidence (hair, fiber, paint, glass), blood, DNA evidence, forensic document examination, crime scene kits, and forensic microscopy.

Not open for credit to students with credit in CRIM 562. Letter grade only (A-F). Undergraduate students register for CRJU 440; graduate students for CRJU 640.)
641. Investigating High-Tech Crimes (3)
Prerequisite: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.
Overview of general classification, devices, microscopy, and methodologies in investigating high-tech crimes. Focuses on counterfeiting and fraud related to U.S. currency, credit card, checks, driver's license, social security cards, DVDs/CDs, cable TV boxes/terminals TV cards, and computer-based "cybercrimes."
Not open for credit to students with credit in CRIM 563. Letter grade only (A-F).

642. Forensic Psychology and the Criminal Justice System (3)
Prerequisites: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.
An interdisciplinary examination of the relationship between psychiatry, clinical psychology, and the criminal justice system with regard to mentally ill criminal offenders. Focus is on the legal standards for determining various criminal competencies, insanity, diminished capacity, and related defenses of excuse.
Letter grade only (A-F).

643. Forensic Pathology and the Medical-Legal Investigation of Death (3)
Prerequisite: Open to Criminal Justice master's students only. All others require consent of the Criminal Justice Graduate Advisor.
A multimedia examination of the medico-legal investigation of death. Focus is on thanatology and thanatopsiology of unexpected natural deaths, accidental deaths, suicides, and homicides. Special attention to deaths by gunshot wound, sharp force injuries, blunt force trauma, asphyxiation, and electrocution.
Letter grade only (A-F). Field trips may be required.

690. Advanced, Specialized Topics in Criminology and Criminal Justice (3)
Advanced and specialized topics of current interest in the field of criminal justice selected for intensive development. Topics are announced in the Schedule of Classes.
May be repeated to a maximum of 9 units with different topics in the same semester.

691. Instructional Strategies for Criminal Justice Professionals (3)
Prerequisites/Corequisites: Consent of instructor.
A structured program to teach graduate students how to create and deliver college-level instruction in criminal justice. Includes design of assignments within a measurable assessment framework, development of teaching strategies, and appropriate use of media and other pedagogical devices. May require time outside of semester format.
Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters.

694. Thesis I (3)
Prerequisite: Advancement to candidacy as a criminal justice master's student.
Student works under direct faculty supervision to complete a proposal for the thesis research study. Review of the literature on a topic and development of appropriate methodology.
Not open for credit to students with credit in CRIM 565. Letter grade only (A-F).

695. Directed Readings/Independent Study (1-4)
Prerequisites: Consent of Instructor.
For students who wish to learn about a topic related to criminology, criminal justice, or forensics in great detail through independent reading and writing assigned by a faculty member.
May be repeated to a maximum of 6 units.

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DANCE
College of the Arts

Department Chair: Cynus Parker-Jeanette
Department Office: Dance Center
Telephone / FAX: (952) 985-4747 / (952) 985-7890
Faculty: Karen Clippinger, Colleen Danegag, Keith Johnson, Lorin Johnson, Liz Le, Steven McAllan, Sophie Monet, Cynus Parker-Jeanette, Andrew Vaca
Administrative Coordinator: Jennifer Ruther
Administrative Assistant: Sylvia Rodriguez-Schott

Career Possibilities
Dancer • Choreographer • Teacher • Dance Company Director • Dance Therapist • Booking Agent • Critic • Performing Arts Administrator • Dance Kinesiologist • Pilates Instructor • Dance/Aerobic Instructor (Some of these, and others, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The CSULB Department of Dance is committed to artistic and academic excellence that promotes the value of dance for the individual and society. The curriculum is designed to create a well-rounded dancer with a strong base in modern dance performance and composition. Additional coursework includes ballet, jazz, tap, world dance, dance history and theory and emphasizes creative, historical, and scientific perspectives of dance. The Department is also committed to providing opportunities for the general university student through both studio and theoretical dance courses and for the non-major. Performances, master classes and residencies also contribute to the artistic enhancement of the campus and community. In addition, the Department avails itself to the promotion through creative activity and scholarly research, leadership in professional organizations, and participation in dance festival/conferences at the regional and national levels.

The Department offers two undergraduate degree programs: the Bachelor of Fine Arts and the Bachelor of Arts in Dance. Both degrees provide breadth and depth of experience in the creative, physical, and academic aspects of the art of dance. The BA provides students with a balanced course of study that helps prepare them for several career options and allows them flexibility for a double major. Within the BA is also a Dance Science option that offers study in tandem with the Kinesiology Department and helps prepare students for future study and careers in training, fitness, Pilates and physical therapy. The BFA, a professional degree in Dance, offers students more concentrated study in the areas of technique, performance, and choreography aimed at preparing the student for a professional career.

The Department also offers two graduate degree programs: the Master of Fine Arts and the Master of Arts in Dance. The MFA is a demanding program designed to challenge professionally experienced students to develop their artistic and analytical work through numerous performances and choreographic opportunities. This terminal degree prepares candidates for careers in higher education, performance, and choreography. The MA in Dance is a concentrated program for dancers currently working in high schools and community colleges. This advanced degree enhances teaching and choreographic skills, while broadening aesthetic, historical, and scientific understanding of dance.

Entrance to the major or minor in dance is by audition only. Auditions are held four times per year. Applicants may download audition information from the web or may contact the Department of Dance to obtain audition dates and an audition application form. Students desiring more information may contact the Department office for referral to one of the faculty advisors in Dance. All new students enter the major under the BA degree. A separate audition for entrance into the BFA degree plan is required once students have completed specific coursework and achieved required levels of competency.

Non-major studio classes in ballet, modern, jazz, world dance forms, and tap are open to all students and do not require any audition. Several courses are offered that meet the General Education Exploration and Capstone requirements in categories C, D, E, and IC.

The faculty in the Department of Dance consists of active professionals who are highly committed to teaching and mentoring dance students. A large number of part-time faculty members supplement the expertise of the full-time faculty.

Dance concerts with faculty, students, and visiting choreographers are held in the Martha B. Knoebel Dance Theater. Dance majors and minors are encouraged to participate in activities of the Dance student organization "Off 7th Dancing."

The Department is an accredited institutional member of the National Association of Schools of Dance (NASAD, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700).

Undergraduate Programs

Bachelor of Arts in Dance (code DANCBA01) (120 units)

The Bachelor of Arts in Dance provides students with a broad scope of courses that helps prepare them for several career options and also allows for the pursuit of a double major.

Requirements
Composition (9 units): DANC 120, 220, 320.
Theory (21 units): DANC 100, 131, 260, 373I, 435L, 442B; 470 or 475; three units from 488, 491A, or 491B.
Performance/Crew (4 units): Two units from 181A, 181B, 381A, 381B, 481A or 481B; two units from 180A, 190B, 290, 321, 380A, 380B, 480A, 480B or 495.

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General Education Elective (3 units): Three units from AH 111A, 333B, CWL 124, 132, 161, 324, 412; DANC 435; PHIL 361; MUS 180, 190, 200, 363I, 364I, 490; THEA 113, 524.

Minor in Dance (code DANCUM01)

Students wishing to minor in dance must audition for placement prior to starting the program. The Minor in Dance is available to any non-dance major.

Requirements

24 units of which 9 must be upper division. Technique (9 units): 6 units from DANC 152, 252, 312, or 412 (3 of which must be from DANC 252); Three units from DANC 154, 254, 314, or 414. Theory/Production/Performance (12 units): DANC 120, 131, 220, 442B; 1 unit from DANC 380A, 380B, 480A, 480B, or 495; and one unit from DANC 381A, 381B, 481A, 481B. Electives (3 units): DANC 161, 320, 350, 360, 362, 373I, 442A, 435I, 445, 475.

Graduate Programs

Master of Arts in Dance

General Option (code DANCMA01)

The Master of Arts in Dance is a practice-oriented degree created to serve experienced dance educators, primarily in secondary and community college venues. Its curriculum is designed to broaden and deepen dance knowledge and skills for teaching dance classes and producing dance concerts. This degree elevates an undergraduate teaching credential to graduate status.

Because M.A. candidates are teaching during the academic year, coursework is completed in three intensive, 6-week consecutive summer sessions in which 9-12 units are earned each summer. No other institution of higher education in the State of California offers such an emphasis at the M.A. level.

Criteria for Admission into the Program

Candidates must meet the following criteria for entrance into the M.A. in Dance:

1. Prerequisite Courses:
   1.2 course in dance composition;
   1.2 course in dance history;
   1.2 course in anatomy/kinesiology (must be taken in the past five years);
2. bachelor's degree from an accredited institution with a degree in dance or a related field;
3. minimum of 3 years experience teaching dance in a high school with a secondary teaching credential, minimum of 3 years part-time or full-time experience teaching dance in a community college (exceptions will be considered for extensive part-time employment teaching dance in a high school, or for an exemplary employment history of teaching dance in other venues);
4. three letters of recommendation, of which one must be from a supervisor or colleague;
5. movement audition and personal interview;
6. completion of all application materials.
Criteria for Admission into the Program

Candidates admitted into this program will be selected on the following criteria:
1. Meet University admissions requirements;
2. B.A., B.F.A., or M.A. degree in dance or equivalent with a 3.0 GPA in upper division dance courses;
3. Professional goals consistent with the plan of study;
4. life experiences in the field;
5. audition in performance and choreography.

All MFA candidates are admitted on a conditional status. Removal of the conditional admit will occur after the following:
1. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
2. completion of all prerequisites;
3. completion of 20 graduate dance units with a GPA of 3.0;
4. approval of Graduate Advisor.

Prerequisites

Advanced technique, Dance Composition (3 courses), Dance History (2 courses), Music for Dance, Anatomy/Kinesiology, Dance Notation or Laban Movement Analysis, Dance Production (2 courses). Candidates may take prerequisite courses along with graduate courses.

When an undergraduate degree is completed in a program which has different requirements than those of the CSULB dance major, additional preparation may be required before the student can be considered for classified status. Up to 24 units from an M.A. degree program may be acceptable, with approval of the graduate advisor.

Application Requirements

1. A CSULB post-baccalaureate application.
2. The following returned to the CSULB Dance Department:
   A. Letter of application;
   B. resume;
   C. 3 letters of reference;
   D. VHS video or DVD of a recent group choreographic work;
   E. 2-page (typed, double spaced) personal statement addressing how graduate work will fulfill intended professional goals.
3. Admission on the CSULB campus to include a technique class and presentation of a 3-5 minute solo composition.

Advancement to Candidacy

Advancement to candidacy will occur based on the following:
1. unconditional admission status;
2. completion of 30 graduate dance units with a GPA of 3.0;
3. successful choreography produced in a graduate concert;
4. evaluation by graduate faculty of the candidate's satisfactory progress toward the degree;
5. removal of any incomplete grades.

Performance/Choreography Concentration

60 units total: 18 units in Technique from DANC 510A, 510B, 512, 514, with a minimum of 12 units from DANC 512 or 510A, and a minimum of 6 units from DANC 514 or 510B; 14-16 units in Theory from DANC 505, 565, 588, 597, 605, 693; 12 units in Choreography from DANC 520 A,B,C,D; 5 units in Performance/Production from DANC 580 A,B, 585 A,B, 592, 595; 6 units from DANC 699; 3-6 units electives.
Courses (DANC)

Dance Technique
Note: Dance majors must take technique courses and composition in sequence and screen for level placement in all technique classes. Screening will take place the previous semester and the first day of class. Beginning non-major technique classes are not screened; they are open to all students. Intermediate/Advanced Jazz has a screening process.

LOWER DIVISION

100. Orientation to Dance (1)
Corequisite: DANC 152 or 154.
Introductory information, degree requirements, career opportunities, current problems and issues in the field.
Letter grade only (A-F).

101. Introduction to Modern Dance (3)
Prerequisite: Completion of General Education Foundation courses.
Exploration of modern dance concert dance art form through the study of its aesthetic principles and characteristics. Lectures and video viewing identify major choreographers, performers, choreographic works, and historical development; movement sessions explore elementary exercises in modern dance technique.
Not open for credit to dance majors.

102. Introduction to Ballet (3)
Prerequisite: Completion of General Education Foundation courses.
Exploration of ballet as concert dance art form through the study of its aesthetic principles and characteristics. Lectures and video viewing identify major choreographers, performers, choreographic works, and historical development; movement sessions explore elementary exercises in ballet technique.
Not open for credit to dance majors.

103. Introduction to Jazz (3)
Prerequisite: A General Education Foundation course.
Introduction to jazz dance as concert and entertainment art form through the study of its aesthetic principles and characteristics. Lectures and video viewing identify major choreographers, performers, choreographic works, and historical development; movement sessions explore elementary exercises in jazz technique.
Open only to non-dance majors.

104. Introduction to Tap (3)
Prerequisite: A General Education Foundation course.
Introduction to tap as concert and entertainment art form through the study of its aesthetic principles and characteristics. Lectures and video viewing identify major choreographers, performers, choreographic works, and historical development; movement sessions explore elementary exercises in tap technique.
Open only to non-dance majors.

105. Latin Jazz (2)
Basic skills and techniques in Latin Jazz.
Not open for credit to dance majors.
May be repeated to a maximum of 4 units. (1 hour discussion, 2 hours studio)

106. African Dance (2)
Basic skills and technique in African dance designed to incorporate its role in African culture.
May be repeated to a maximum of 4 units. (1 hour discussion, 2 studio hours)

108. Beginning Flamenco (2)
Basic skills and technique in the style of Flamenco dance designed to incorporate its role in Spanish culture.
May be repeated to a maximum of 4 units. (1 hour discussion, 2 studio hours)

109. Beginning Hip-Hop (2)
Basic skills and technique in the style of Hip-Hop dance.
May be repeated to a maximum of 4 units. (4 studio hours)

110. Viewing Dance (3)
Prerequisite/Corequisite: A General Education Foundation course.
Introduction to contemporary dance theater through viewing dance films (modern dance, ballet and ethnic dance, performance, and lecture/performances on dance).

111A. Beginning Modern Dance (2)
Basic skills and techniques in modern dance. Not open to dance majors. May be repeated for a maximum of 4 units in different semesters. (4 studio hours)

111B. Beginning Modern Dance (2)
Prerequisite: DANC 111A or consent of instructor. Continuing beginning skills and techniques in modern dance. Not open to dance majors. May be repeated for a maximum of 4 units in different semesters. (4 studio hours)

112A. Intermediate Modern Dance (2)
Prerequisite: DANC 111A or consent of instructor. Open to non-majors. Low intermediate skill and techniques in modern dance. May be repeated for a maximum of 8 units in different semesters. (4 studio hours)

112B. Intermediate Modern Dance (2)
Prerequisite: DANC 112A or consent of instructor. Open to non-majors. High intermediate skill and techniques in modern dance. May be repeated for a maximum of 8 units in different semesters. (4 studio hours)

113A. Beginning Ballet (2)
Basic skills and techniques in ballet. Not open to dance majors. May be repeated for a maximum of 4 units in different semesters. (4 studio hours)

113B. Beginning Ballet (2)
Prerequisite: DANC 113A or consent of instructor. Continuing beginning skills and techniques in ballet. Not open to dance majors. May be repeated for a maximum of 4 units in different semesters. (4 studio hours)

114A. Intermediate Ballet (3)
Prerequisite: DANC 113B or consent of instructor. Open to non-majors. Low intermediate skill and techniques in ballet. May be repeated for a maximum of 12 units in different semesters. (6 studio hours)

114B. Intermediate Ballet (3)
Prerequisite: DANC 114A or consent of instructor. Open to non-majors. High intermediate skill and techniques in ballet. May be repeated for a maximum of 12 units in different semesters. (6 studio hours)

115. Beginning Jazz (2)
Basic skills and techniques of jazz.
Not open for credit to dance majors. May be repeated to a maximum of 4 units in different semesters. (4 studio hours)

116. Intermediate Jazz (2)
Prerequisite: DANC 115 of consent of instructor. Basic theory and practice of modern jazz dance. May be repeated to a maximum of 8 units in different semesters. (4 studio hours)
117. Beginning Tap Technique (2)  
Basic technique in the tap dance idiom, time steps, stylistic patterns, rhythmic patterns and tap combinations.  May be repeated to a maximum of 4 units. (4 studio hours)

120. Improvisation I (2)  
Use of improvisation as an introduction to structural form; individual and group problems.  Letter grade only (A-F). (4 studio hours)

131. Introduction to Music for Dance (2)  
Basic music notation, simple and complex rhythmic patterns, poly rhythm, skill in the use of percussion instruments and a brief survey of the historical periods of music for dance.  Letter grade only (A-F). (4 studio hours)

152. Modern Technique I (3)  
Prerequisites: Dance Major or Minor, and placement screening. Intermediate skill in modern technique.  Letter grade only (A-F). Repeatable to a maximum of 12 units in different semesters. (6 studio hours)

154. Ballet Technique I (3)  
Prerequisites: Dance Major or Minor, and placement screening. Intermediate skill in ballet technique.  Letter grade only (A-F). Repeatable to a maximum of 12 units in different semesters. (6 studio hours)

161. Placement for the Dancer (2)  
Prerequisites: Open to Dance Majors and Minors.  Application of movement principles and exercises from various sources including anatomy, biomechanics and rehabilitation to improve body alignment, core stabilization, and other aspects of technique in key dance movement patterns.  Letter grade only (A-F). (4 studio hours)

179. Exploring Dance: The Language of Movement (3)  
Prerequisites: Open to all Liberal Studies Majors, open to others with consent of instructor based on availability.  Exploration of movement language of dance relating to producing dance; to historical and cultural aspects of dance; and to activities geared to developmental aspects of children, 5-12 years, as outlined in California State Framework for Visual and Performing Arts, K-8.  Dance component.  Letter grade only (A-F). (1 hour lecture, 4 hours lab)

180A. Dance Performance (1)  
Prerequisites: Audition; dance major or minor. Participation in dance productions.  Letter grade only (A-F). May be repeated to a maximum of 4 units. (3 or more studio hours)

180B. Dance Performance (1)  
Prerequisites: Audition; dance major or minor. Participation in dance productions.  Letter grade only (A-F). May be repeated to a maximum of 4 units. (3 or more studio hours)

181A. Dance Production Technical I (1)  
Technical participation in Dance Department-sponsored productions.  Letter grade only (A-F). Repeatable to a maximum of 4 units in different semesters. (2 studio hours)

181B. Dance Production Technical I (1)  
Technical participation in Dance Department-sponsored productions.  Letter grade only (A-F). Repeatable to a maximum of 4 units in different semesters. (2 studio hours)

214. Ballet Pointe (1)  
Prerequisite: Consent of instructor.  Development of the technique of dancing in pointe shoes. May be repeated for a maximum of 4 units in different semesters. (2 studio hours)

216. Intermediate/Advanced Jazz (2)  
Prerequisites: DANC 116 or consent of instructor.  Basic theory and practice of modern jazz dance.  May be repeated to a maximum of 8 units in different semesters. (4 studio hours)

217. Intermediate Tap Technique (2)  
Prerequisites: DANC 117 or placement screening.  Intermediate skills in tap technique concentrating on rhythmic complexity, heightened tempos, and contemporary tap styles.  May be repeated to a maximum of 4 units. (4 studio hours)

220. Dance Composition I (3)  
Prerequisite: DANC 131.  Theory and practice in the basic elements of dance composition.  Letter grade only (A-F). (Lecture 1 hour, 4 studio hours)

252. Modern Technique II (3)  
Prerequisites: Dance Major or Minor, and placement screening.  Intermediate skill in modern technique.  Letter grade only (A-F). May be repeated to a maximum of 12 units. (6 studio hours)

254. Ballet Technique II (3)  
Prerequisites: Dance Major or Minor, and placement screening.  Intermediate skill in ballet technique.  Letter grade only (A-F). May be repeated to a maximum of 12 units. (6 studio hours)

260. Functional Anatomy for the Dancer (3)  
Prerequisites: DANC 161 or consent of the instructor.  A thorough examination of major muscles, bones and joints as they relate to human movement.  Performance of anatomical analyses of common conditioning exercises and key dance movements.  Letter grade only (A-F). (2 hours lecture, 2 hours studio)

262. Pilates I (3)  
Prerequisites: DANC 260 or BIOL 206.  Beginning intermediate level Pilates-based program, emphasizing the use of the Pilates apparatus, designed to enhance dance performance, movement coordination and physical conditioning.  Letter grade only (A-F). (1 hour seminar, 4 studio hours)

295. Repertory (1-3)  
Prerequisites: Audition, dance major.  Experience in rehearsal and performance practice in an intensive format.  Letter grade only (A-F). May be repeated to a maximum of 6 units. (2-6 studio hours)

**UPPER DIVISION**

312. Modern Technique III (3)  
Prerequisites: Dance major or minor or placement screening.  For undergraduate dance majors in the intermediate/advanced skill of modern dance techniques.  Letter grade only (A-F). May be repeated to a maximum of 12 units in different semesters. (6 studio hours)

313. Modern Dance Workshop (1-3)  
Prerequisites: Dance major or minor or consent of instructor.  Exploration of the techniques of modern dance.  May be repeated for a maximum of 8 units in different semesters. (2-6 studio hours)

314. Ballet Technique III (3)  
Prerequisites: Dance Major or Minor, and placement screening.  Advanced-intermediate skill in ballet technique.  Letter grade only (A-F). May be repeated for a maximum of 12 units in different semesters. (6 studio hours)
315. Ballet Workshop (1-3)
Prerequisites: Danza major and minor or consent of instructor.
Exploration of the techniques of ballet.
May be repeated for a maximum of 6 units in different semesters.
(2-6 studio hours)

316. Advanced Jazz (2)
Prerequisites: DANC 216 or consent of instructor.
Advanced theory and practice of jazz technique.
May be repeated to a maximum of 8 units. (4 studio hours)

317. Advanced Tap Technique (2)
Prerequisites: DANC 217 and 217 or consent of instructor.
Advanced skills in tap technique concentrating on rhythmic complexity, heightened tempos, improvisational work, and contemporary tap styles.
May be repeated to a maximum of 8 units in different semesters. (4 studio hours)

318. World Dance (1-3)
Theory and technique of various world forms.
(2 studio hours per unit)

319. Dance Laboratory (1-3)
Participation in dance technique projects. Consent of instructor.
Letter grade only (A-F). May be repeated to a maximum of 8 units.
(2 studio hours per unit)

320. Dance Composition II (3)
Prerequisite: DANC 220.
Development of theme and style in small group studies.
Letter grade only (A-F). (Lecture 1 hour, 4 studio hours)

321. Directed Choreography (1-3)
Prerequisites: Consent of instructor.
Independent choreographic projects finalized in a performance venue under supervision of a faculty member.
Letter grade only (A-F). May be repeated to a maximum of 8 units in different semesters. (2-6 studio hours)

350. Dance Notation I (3)
Prerequisite: DANC 151.
Theory and practice of notating movement through Labanotation.
Letter grade only (A-F).

360/560. Prevention and Care of Dance Injuries (3)
Prerequisite: DANC 260 or consent of instructor.
Study principles to help dancers understand, prevent and recover from common dance injuries. Assessment and development of muscular strength/endurance, flexibility, cardiovascular endurance, body composition/nutrition and proprioception as they relate to common injuries and improved dance performance.
Letter grade only (A-F). (2 hours lec., 2 hours lab)

362. Pilates II (2)
Prerequisites: DANC 262 or consent of instructor.
Intermediate-advanced level. Pilates-based conditioning program which employs a series of exercises designed to enhance dance performance and prevent injury, utilizing apparatus based on designs of Joseph Pilates, exercise balls, free weights and body for resistance.
Letter grade only (A-F). (4 studio hours)

370/570. Video for Dance (2)
Skills and techniques in analyzing, documenting, and editing dance performances and rehearsals, use and interface of the digital camera. Examines the field of dance documentation and the editing and creative concepts most associated with dance for the camera.
Letter grade only (A-F). (Lecture 1 hour, 2 studio hours)

373L. Nonverbal Communication: Interaction of Mind and Body (3)
Prerequisites: Completion of GE Foundation requirements, completion of one or more Exploration course(s), and upper division status.
History and theories of the development of mind/body integration. Enhancement of personal and interpersonal relations through lectures, discussion, films and movement experiences. Analysis and synthesis of the interdependence of the psychological and physical processes in nonverbal communication.
Same course as ED P 373L. Not open for credit to students with credit in ED P 373L.

380A, B. Dance Performance (1, 1)
Prerequisite: Open to Dance Majors and Minors only.
Participation as a performer and/or choreographer in Dance Department productions. Concert participation is by audition only. A combination of 380A, B and 480A, B may be repeated to a maximum of 8 units. (5 or more studio hours)

381A. Dance Production Technical (1)
Prerequisites: Open to dance majors and minors.
Technical production participation in Dance Department sponsored productions.
A combination of 381A, B and 481A, B. Letter grade only (A-F). May be repeated for a total of 8 units in different semesters. (3 studio hours per unit)

381B. Dance Production Technical (1)
Prerequisites: Open to dance majors and minors.
Technical production participation in Dance Department sponsored productions.
A combination of 381A, B and 481A, B. Letter grade only (A-F). May be repeated for a total of 8 units in different semesters (3 studio hours per unit)

412. Modern Technique IV (3)
Prerequisites: Dance Major or Minor, and placement screening. Advanced skill in modern dance technique.
Letter grade only (A-F). May be repeated to a maximum of 12 units. (5 studio hours)

414. Ballet Technique IV (3)
Prerequisites: Dance Major or Minor, and placement screening. Advanced skills in the techniques of ballet.
Letter grade only (A-F). May be repeated to a maximum of 12 units in different semesters. (6 studio hours)

416. Ballet Variations (2)
Prerequisites: DANC 254 or consent of instructor.
The interpretation and analysis of style, technique, musicality, content, and phrasing in classical and modern ballet variations.
May be repeated to a maximum of 6 units in different semesters (1 hour discussion, 2 studio hours)

420. Advanced Composition (3)
Prerequisite: DANC 320 or consent of instructor.
Approaches to the development of choreographic materials of extended structure and content.
Letter grade only (A-F). (Lecture 1 hour, 4 studio hours)

422. Improvisation II (1-3)
Prerequisites: DANC 220 or consent of instructor.
Development of the individual performer's improvisational skills, exploration of a wide range of subject matter and style. Study of techniques of structuring improvisations.
Letter grade only (A-F). May be repeated for a maximum of 6 units in different semesters. (2-6 studio hours)

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426. Intermediate/Advanced Ballet Pointe (1)
Prerequisites: DANC 214 of consent of instructor.
Intermediate skill development in ballet pointe technique.
May be repeated for a maximum of 4 units in different semesters. (2 studio hours)

435I. Dance in Film (3)
Prerequisites: Completion of GE Foundation requirements and one or more Exploration course(s), and upper division status.
Examination of the relationship between dance and film; study of historical and theoretical connections placed in both aesthetic and cultural contexts.

442A. History of Dance to 1900 (3)
Development of dance from Aboriginal to 20th Century.
Letter grade only (A-F). (2 hours lecture, 2 hours studio)

442B. Twentieth Century Dance History (3)
Development of Ballet and Modern dance in the 20th Century.
Letter grade only (A-F). (2 hours lecture, 2 hours studio)

445. Movement Analysis (3)
Prerequisites: Open to Dance Majors and Minors only.
Study of the principles underlying movement and their application to all areas of movement study.
Letter grade only (A-F). (2 lecture hours, 2 studio hours)

470. Principles of Teaching Dance Technique (3)
Prerequisites: DANC 312, or consent of instructor.
Methods of teaching dance technique for studios, recreation departments, companies, secondary schools, colleges, and universities. Emphasis on teaching teenagers and adult beginners.
Letter grade only (A-F). (1 lecture hour, 4 studio hours)

475. Dance for Children (3)
Prerequisites: DANC 120, 312, or consent of instructor.
Practical experience in teaching creative dance to children.
Includes improvisational approaches to teaching elements of dance, exploration and practical implementation of teaching and learning theories, and incorporation of the California Visual and Arts dance standards into elementary school curriculum.
Letter grade only (A-F). (2 hours lecture, 2 hours studio)

480A,B. Dance Performance (1,1)
Prerequisite: Open to Dance Majors and Minors only
Participation as a performer and/or choreographer in Dance Department-approved University-sponsored productions. Most concert participation is by audition only.
A combination of 380A,B and 480A,B may be repeated for a total of 8 units. (3 or more studio hours)

481A. Dance Production-Technical (1)
Prerequisites: Open to dance majors or minors.
Technical participation in Dance Department-sponsored productions.
Letter grade only (A-F). A combination of 381A,B and 481A,B may be repeated for a total of 8 units in different semesters. (3 studio hours per unit)

481B. Dance Production-Technical (1)
Prerequisites: Open to dance majors or minors.
Technical participation in Dance Department-sponsored productions.
Letter grade only (A-F). A combination of 381A,B and 481A,B may be repeated for a total of 8 units in different semesters. (3 studio hours per unit)

488. Organization of Dance Production (3)
Prerequisite or Corequisite: DANC 312
Analysis and practice in the production elements of dance concerts.
Course is coordinated with a department concert.
Letter grade only (A-F).

490. Special Topics in Dance (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in the field of dance selected for special presentation and development.
Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 12 units with different topics, or consent of department chair.

491A. Design for Dance Lighting (3)
Prerequisites: Upper division status or consent of instructor.
Techniques of designing lighting for dance. Practical applications include designing and executing lighting for dance for concerts in various settings.
Letter grade only (A-F). (0 studio hours)

491B. Design for Dance Costuming (3)
Prerequisites: Upper division status or consent of instructor.
Designing and constructing costumes for dance.
Letter grade only (A-F). (6 studio hours)

493. Computers for Dance (3)
Prerequisites: Dance major or minor.
Theory and practice in the basic techniques of computer usage in the art form of dance.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

495. Repertory (1-3)
Prerequisite: Audition.
Students learn and perform works of distinguished choreographers. Leads to concert performance.
May be repeated to a maximum of 18 units provided it is with a different instructor each time. (2-6 studio hours)

499. Directed Studies in Dance (1-3)
Prerequisite: Consent of instructor.
Independent projects and research of advanced nature in any area of dance.
Letter grade only (A-F). Course may be repeated for a maximum of 12 units in different semesters. (2-6 studio hours)

GRADUATE LEVEL

505. Seminar in Dance Methodology (3)
Prerequisites: Acceptance into the MA or MFA program or consent of advisor.
Discussion specific to the teaching of dance in preparation for teaching in secondary and post-secondary education.
Letter grade only (A-F). (4 hours studio, 1 hour lecture)

510A,B,C,D. Technique Laboratory (1-3, 1-3, 1-3, 1-3)
MFA Choreography option students are required to take a technique class each semester. By registering for DANC 510, each will be assigned to an appropriate level technique class. Additional work will be required as appropriate to a graduate level course.
May be repeated to a maximum of 6 units. (2-6 studio hours)

512. Advanced Modern Technique (3)
Prerequisites: Placement screening.
For graduate dance majors in the advanced skill of modern dance techniques.
Letter grade only (A-F). May be repeated to a maximum of 18 units. (6 studio hours)

514. Advanced Ballet Technique (3)
Graduate level skills in ballet technique.
Letter grade only (A-F). May be repeated to a maximum of 12 units. (4 studio hours)
520A. Choreography A (3)
Prerequisite: Admission into the MFA degree program.
Will center on development of advanced approach to choreographic materials and techniques. It will emphasize outlining of artistic ideas in written form before physical realization, and will emphasize composing and shaping choreography based on clearly stated concepts.
Letter grade only (A-F). (4 hours activity; 1 hour discussion)

520B. Choreography B (3)
Prerequisite: Admission into the MFA program for dance.
Methods and practice of developing choreography utilizing music/composers as the basis for compositional exploration.
Letter grade only (A-F). (4 hours activity; 1 hour discussion)

520C. Choreography C (3)
Prerequisite: Admission into the MFA program.
Advanced study of choreographic methods concentrating on development of choreography inspired by and relating to other art forms. Compositional studies geared to traditional theatrical values and alternate formats will be explored.
Letter grade only (A-F). (4 hours activity; 1 hour discussion)

520D. Choreography D (3)
Prerequisite: Admission into the MFA program.
Concentrates on development of dance choreography designed for presentation through video, and video used as an integrated/supporting form in live performance. Emphasizes skills and techniques in the exploration of dance documentation and the shooting and editing of digital video.
Letter grade only (A-F). (4 hours activity; 1 hour discussion).

520E. Choreography E (2)
Prerequisites: DANC 520D or consent of instructor.
Methods and practice of developing choreography utilizing an integration of related art forms as basis for compositional exploration.
Letter grade only (A-F). (4 studio hours)

521. Dance Composition III (3)
Prerequisite: Admission to the MA degree program in Dance.
Methods and practice of developing choreography as related to the high school and community college setting.
Letter grade only (A-F). (1 hour lab; 4 hours lab)

522. Composition IV (3)
Prerequisite: Admission into the MA degree program.
Methods and practice in developing choreographic studies related to a high school or community college setting.
Letter grade only (A-F). (4 studio hours; 1 lecture hour)

531. Music for Dance II (1-3)
Provides dance students an opportunity for advanced, in-depth study of musical form and style as it applies to dance.
Letter grade only (A-F)

560. Prevention and Care of Dance Injuries (3)
Prerequisite: DANC 260 or consent of instructor.
Study of key principles to help dancer better understand, prevent and recover from common dance injuries. Assessment and development of muscular strength/endurance, flexibility, cardiovascular endurance, body composition/nutrition and proprioception as they relate to common injuries and improved dance performance.
Letter grade only (A-F). (2 hours lab; 2 hours lab)

565. Dance Science as Related to Teaching Technique (3)
Prerequisite: DANC 260 and 550, or consent of instructor.
Application of anatomical principles, scientific principles of training, and biomechanical principles to more effectively design and teach dance technique classes.
Letter grade only (A-F). (1 hour lab; 4 hours lab)

570. Video for Dance (2)
Prerequisite: Admission into the MFA program for dance. Methods and practice of developing choreography utilizing music/composers as the basis for compositional exploration.
Letter grade only (A-F). (4 hours activity; 1 hour discussion)

580A/B. Dance Performance (1)
Prerequisite: Audition.
Participation as a performer and/or choreographer in Dance Department approved University-sponsored production.
Letter grade only (A-F). May be repeated to a maximum of 2 units.
(3 or more studio hours)

585A/B. Dance Performance (1)
Prerequisite: Audition.
Participation as a performer and/or choreographer in Dance Department approved University-sponsored production.
Letter grade only (A-F). May be repeated to a maximum of 2 units.
(3 or more studio hours)

588. Seminar in Dance Management (2)
Techniques and practices in producing and promoting dance performances in fixed sites and in touring venues relevant to the production of MFA thesis concerts and to venues outside the University. For graduate students with prior experience in the field.
Letter grade only (A-F).

590. Special Topics (1-3)
Prerequisite: Acceptance into MFA program in dance.
Topics of current interest to graduate students in dance will be explored for intensive study.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics.

591A. Advanced Design for Dance Lighting (3)
Provides students with advanced work in design lighting for dance, and offers the in-depth technical knowledge and practical experience necessary to the execution of complete lighting plots.
Letter grade only (A-F). (6 studio hours)

591B. Advanced Design for Dance Costuming (3)
Provides graduate students with advanced coursework in designing costumes for dance, and with skills necessary to execute the designs.
Letter grade only (A-F). (6 studio hours)

592. Special Topics (1-3)
Prerequisite: Acceptance into MFA program in dance.
Topics of current interest to graduate students in dance will be explored for intensive study.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics.
(2-6 studio hours)

595. Repertory (1-3)
Prerequisite: Audition.
For graduate dance majors to learn more advanced works from the repertory of noted choreographers or to have new works created on the students by distinguished choreographers.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
(2-6 studio hours)
597. Criticism and Analysis of Dance (3)
Prerequisite: Acceptance into the graduate degree program in dance.
Seminar introducing students to aesthetic and critical discourses within dance studies. Readings in dance criticism, aesthetics, and theory will be discussed in relationship to contemporary and historical dance works. Requires extensive viewing of and writing about choreographic works.
Letter grade only (A-F).

599. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Individual research or project under the guidance of a faculty member.
May be repeated to a maximum of 12 units in different semesters.
(2-6 studio hours) Letter grade only (A-F).

605. Seminar in Dance (1-3)
Prerequisites: Acceptance into the MA or MFA in Dance.
Will be conducted as a seminar. Literature, including research appropriate to the particular topic of the course, will be examined and discussed.
Letter grade only (A-F).

642. Seminar in Dance History (3)
Intensive study of selected topics in the History of Dance.
Letter grade only (A-F). May be repeated to a maximum of 9 units with different topics.

693. Teaching Internship (1-3)
Prerequisite: Acceptance into the M.F.A. program in Dance.
Opportunity to work with full-time Dance faculty member in course preparation and instruction in one area of dance theory.
Letter grade only (A-F).

698. Thesis/Project (1-6)
Prerequisite: Advancement to candidacy.
Planning, preparation, and completion of a thesis/project in dance for the M.A. degree.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

699. Thesis/Project (1-6)
Prerequisite: Advancement to Candidacy.
Planning, preparation, and completion of thesis/project in dance for the M.F.A. degree.
Letter grade only (A-F). May be repeated to a maximum of 6 units in the same semester.
Department Chair: Dorothy Ottolie  
Department Office: Design (DESN), Room 101  
Telephone / FAX: (562) 985-5089 / (562) 985-2284  
Website: http://www.csulb.edu/depofdesign/  
Faculty: Marielou Fayeck (Emeritus), Dorothy Ottolie, Eduardo Perez, Joseph Rivera-Chang, David Tunis  
Administrative Coordinator: Pamela Sample

Career Possibilities
Industrial Designer • Interior Designer • Display/Exhibit Designer • Furniture Designer • Car Designer • Model Maker • Package Designer • Technical Illustrator • Teacher • Consultant • Commercial Artist • Architectural Illustrator • Product Designer • 3-D Graphic Illustrator (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Department of Design offers three degree programs: Bachelor of Science in Industrial Design, Bachelor of Fine Arts in Interior Design, Bachelor of Arts in Design. The faculty believe that an appropriate education for the professional designer must include a comprehensive body of technical knowledge involving historical sources, tools, techniques, and materials. In addition, a methodology for encouraging the creative problem solving process; and the attainment of the requisite level of skill to express visual ideas with clarity must be obtained. While being fully equipped to meet the objectives of the global marketplace, today's designer must also achieve sufficient educational breadth to adapt successfully to the varying demands imposed on their work by economic, social and psychological factors. A competitive portfolio review is held each year to identify students whose work has reached a level of competence necessary to advance to junior- and senior-level courses in Industrial Design and Interior Design. After passing portfolio requirements, selected students are officially admitted to the BS and BFA programs. The BA program is open to all students.

The academic programs of the Department of Design have been accredited by the National Association of Schools of Art and Design (National Association of Schools of Art and Design, 11250 Roger Bacon Drivo, Suite 21, Reston, VA 20190; phone: 703-137-0700). Student demand for these programs is high. Requirements for admission and degree requirements are given below.

Undergraduate Programs

Bachelor of Arts in Design  
(code DESNBA01) (120 Units)

The Bachelor of Arts in Design provides the opportunity for the student to gain a broad exposure to the discipline. The curriculum requires study in design theory, art and design history, visual communication, industrial and interior design. In addition to receiving a foundation through the core courses, the curriculum will also enable students to pursue an area of concentration.

Total Design and Art units required: 38 lower division, 34 upper division.

Requirements
Upper Division: ART 321; DESN 344A, 351A or 432, 360, 435A, 450, 460 and 6 units of Design History from the following: DESN 367, 368, 369, 370.
Electives: Select a minimum of 9 units from the following: DESN 142, 154, 156, 241, 242, 244, 254, 256, 280. Select a minimum of 7 units from the following: ART 318; DESN 344B, 346, 351B, 432, 435B, 490.

Bachelor of Fine Arts in Art

The Bachelor of Fine Arts in Art degree is offered as preparation for the student who will eventually seek the Master's degree or a position as a professional designer. The BFA program is a rigorous and competitive one. One hundred and thirty-two semester units are required for the degree, including 84 units for the major. Portfolio review is required for admission to the professional BFA program. Portfolios are reviewed in the spring semester for fall admission to junior standing and the upper division program.

Option in Interior Design  
(code ART_BF09) (132 units)

Requirements
Upper Division: DESN 341 A, 341 B, 342, 343, 346, 367, 369, 440, 441 A, 441 B; eight units of design electives, outside of Interior Design approved by the major advisor. Approved lower and upper division electives to total 132 units.

Students must achieve "C" or better in each required design course to progress in the sequence of study.

Bachelor of Science in Industrial Design  
(code DESNBS01) (132 units)

This degree program is concerned with the relationship between technology and the visual arts. It includes background courses in engineering and sciences. Students must achieve "C" or better in each required design course to progress in the sequence of study. Portfolio review is required for admission to the professional BS program. Portfolios are reviewed in the spring semester for fall admission to junior standing and the upper division program.

Prerequisites
Lower Division: PHYS 100A/B.
Requirements
Upper Division: DESN 331A, 331B, 333A, 333B, 368, 431A, 431B; 12 units of Design/Art electives, 9 units of which must be outside of Industrial Design approved by the major advisor. Approved lower and upper division electives to total 132 units.
Students must achieve "C" or better in each required design course to progress in the sequence of study.

Courses (DESN)

LOWER DIVISION

120A-B. Fundamentals of Design (3-3)
Prerequisites: for 120A: none; for 120B: 120A.
Systematic approach to process of designing two, three-dimensional objects including color theory, surface, volume investigation.
Letter grade only (A-F). (6 hours laboratory)

123A-B. Perspective and Rendering Systems (3-3)
Prerequisites: for 123A: none; for 123B: 123A.
Fundamentals of drawing, perspective, rendering techniques used in the design disciplines for accurate dramatic presentations.
Letter grade only (A-F). (6 hours laboratory)

141. Interior/Architectural Drafting (3)
Architectural drafting graphic techniques used in light framing, commercial construction with emphasis on interiors.
(6 hours laboratory)

142. Beginning Space Planning (3)
Prerequisites: DESN 141.
Functional, human, aesthetic factors of space planning for interiors.
Letter grade only (A-F). (6 hours laboratory)

150. Design Drafting (3)
Introduction to manual, computer aided drafting. Includes descriptive geometry, mechanisms, drafting, orthographic, isometric drafting, blueprint reading, printing, plotting.
Letter grade only (A-F). (6 hours laboratory)

151. Industrial Design Materials and Tools (2)
Hands-on experience with wood, metal, plastic materials, the technical tools for creating forms. Includes appropriate safety instruction for use of power equipment.
Letter grade only (A-F). (4 hours laboratory)

154. Modeling and Prototyping Techniques (2)
Prerequisites: DESN 150, 151.
Materials, processes, techniques for creating mock-ups, models, prototypes used by industrial designers.
Letter grade only (A-F). (4 hours laboratory)

156. 3D Computer-Aided Design (3)
Prerequisites: DESN 150.
Computer aided modeling strategy techniques for depicting three-dimensional surfaces, solids.
Letter grade only (A-F). (6 hours laboratory)

232. Visualization Techniques (3)
Prerequisites: DESN 120B, 132B, consent of instructor.
Introduction to technical drawing, visual presentation of concepts using communication techniques employed by professional design studios.
Letter grade only (A-F). May be repeated to a maximum of 9 units. (6 hours laboratory)

241. Design Drawing and Processes (3)
Prerequisites: DESN 120B, 132B, 142, or consent of instructor.
Introduction to Design drawing, design processes, sketching, solving architectural problems.
Letter grade only (A-F). (6 hours laboratory)

242. Interior/Architectural Model Building (3)
Prerequisites: DESN 120B, 132B, 142.
Building of interior/architectural models for construction, design analysis, presentation.
Letter grade only (A-F). (6 hours laboratory)

243. Materials of Interiors (3)
Prerequisites: DESN 120B, 132B, or consent of instructor.
Materials, processes, resources as they relate to interior architecture. Examination of technology, application through lecture, demonstration, field trips.
Letter grade only (A-F). (6 hours laboratory)

244. Lighting Design for Interior Architecture (3)
Prerequisites: DESN 120B, 132B, 142.
Use of conceptual practical design problems. Nature, properties of light, color are studied.
Letter grade only (A-F). (6 hours laboratory)

245. Building Systems for Interior Architecture (3)
Prerequisites: DESN 142.
Survey of design implications of typical building systems (structural, mechanical, plumbing, electrical, acoustical, energy conservation) as influences on interior architectural design.
Letter grade only (A-F). (3 hours lecture)

246. Computer-aided Drafting (3)
Prerequisite: DESN 141.
Principles, methods of computer graphic applications utilizing AutoCad. Computer drafting of commercial, residential projects.
May be repeated to a maximum of 6 units.

254. Production Materials and Technical Processes (3)
Prerequisites: DESN 150, 151, 154, 156.
Letter grade only (A-F). (6 hours laboratory)

256. 2D Computer-Aided Graphics (3)
Prerequisites: DESN 150 or 141 or consent of instructor.
Introduction to computer-aided graphics and image manipulation. Composition with typography and image for presentation authoring. Technology and terminology for digital media processes.
Letter grade only (A-F). (6 hours laboratory)

280. Industrial Design Processes (3)
Prerequisites: DESN 120B, 132B, 158, 232, 254, 258.
Introductory course in the design processes utilized by industrial designers for product development.
Letter grade only (A-F). (6 hours laboratory)

UPPER DIVISION

320. Advanced Form Study (3)
Prerequisites: DESN 120B, DESN 132B and DESN 232; and consent of instructor.
Development of 3D models as it relates to Industrial Design. Form generation with emphasis on structure, proportion, surface, texture, detail and flow.
Letter grade only (A-F). (6 hours laboratory)
331A-B. Industrial Design (3-3)
Prerequisites: for DESN 331A: Completion of DESN 280 with a "B" or better and consent of instructor; for DESN 331B: DESN 331A.
Planning design of useful products for industrial production.
(6 hours laboratory)

333A-B. Industrial Design Methodology (3-3)
Prerequisites: for 333A: Consent of instructor; for 333B: DESN 333A or consent of instructor.
Examination of methods, techniques in design problem solving.
(6 hours laboratory)

341A-B. Interior Design (3-3)
Prerequisites: for 341A: DESN 232, 243; AH 111A, 111B; for 341B: DESN 341A.
Design of interior environments emphasizing interrelationships between interior space, architectural form, human factors in design.
(6 hours laboratory)

342. Interior/Architectural Presentations (3)
Prerequisites: DESN 232, 241, and Junior standing in the professional program.
Exploring, using various techniques, methods of visually, verbally presenting design concepts, ideas, finished projects.
Letter grade only (A-F). (6 hours laboratory)

343. Advanced Drafting and Detailing (3)
Prerequisites: DESN 242, 245, and Junior standing in the professional program.
Advanced drafting, detailing skills of architectural interior design related to light frame, other construction processes.
Letter grade only (A-F). (6 hours laboratory)

344A-B. Display and Exhibition Design (3-3)
Prerequisites: AH 111A, 111B; DESN 120B, 232 or consent of instructor.
Use of materials, processes, design concepts in planning preparation of displays, exhibits.
(6 hours laboratory)

346. Computer-Aided Design – 3D Modeling (3)
Prerequisites: DESN 132B, 242, 246.
Computer-aided drawing, rendering, 3D drawing, solid modeling. Includes lighting, animation techniques for spatial/architectural modeling, design.
May be repeated to a maximum of 6 units. (6 hours laboratory)

351A. Process of Architectural/Interior Lighting Design (3)
Prerequisites: DESN 232, 142, 244 or 254; or consent of instructor.
Exploration of processes used to conceptualize, present, develop architectural lighting designs.
Letter grade only (A-F). (6 hours laboratory)

351B. Applications of Architectural/Interior Lighting Design (3)
Prerequisites: DESN 241, 351A, or 245.
Exploration of major categories of applications (e.g., residential, office, etc.) specific principles, conventions, codes that apply to them as well as the basic use of lighting equipment common to these applications.
Letter grade only (A-F). (6 hours laboratory)

360. Environmental Communication (3)
Prerequisites: ART 222A, DESN 344A and 351A or consent of instructor.
With new tools and methodology, design and present identification and directional information. Create systems for navigation within virtual and physical environments.
Letter grade only (A-F). (6 hours laboratory)

366. Advanced 3D Digital Modeling (2)
Prerequisites: DESN 346
Advanced texturing, and rendering techniques in 3D digital modeling for interior design.
Letter grade only (A-F). (4 hours laboratory)

367. History and Theory of Architecture (3)
Prerequisite: Completion of GE Foundation requirements.
Evolution of architecture relative to human need to shape environment in accordance with governing concerns of specific periods in history.
Not open for credit to students with credit in ART 417. (3 hours lecture)

368. History and Theory of Design (3)
Prerequisite: Completion of GE Foundation requirements.
Development of design as an independent creative activity including a consideration of both pre-technological and technological culture.
Not open for credit to students with credit in ART 418. (3 hours lecture)

369. History of Furniture and Decorative Arts (3)
Study of the history of furniture, finish materials, accessories.
Letter grade only (A-F). (3 hours lecture)

370. Design in Contemporary Society (3)
Prerequisite: Completion of GE Foundation requirements.
Discover principles of design by examining human relationship to built environment through a sequence of scales: from organization of cities, to public architecture, housing, design of furniture, products. Emphasis will be on experiencing design through lecture, lab, field observations, projects.
Letter grade only (A-F). (3 hours lecture)

431A-B. Advanced Industrial Design (4-4)
Prerequisites: DESN 331B, PHYS 100AB or consent of instructor.
Advanced planning, design of projects in area of mass produced objects, packaging, traffic, transportation, mechanical design, shelter.
(8 hours laboratory)

432. Advanced Rapid Visualization (3)
Prerequisites: DESN 232 or consent of instructor.
Advanced idea generation, visualization for designers.
(6 hours laboratory)

435A. Furniture Design (3)
Prerequisites: DESN 232, 331A, 341A, or consent of instructor.
Design of public, private interior furnishings with in-depth study of potentials of contemporary production methods, materials.
(6 hours laboratory)

435B. Advanced Furniture Design (3)
Prerequisites: DESN 435A, or consent of instructor.
Continuation of DESN 435A. Projects focus upon research, impact of human factors on design of furniture.
Letter grade only (A-F). (6 hours laboratory)

440. Professional Practices for Interior Architecture (3)
Prerequisites: Consent of Instructor.
Examination of professional practices for commercial (corporate) institutional/public interior architectural design.
Letter grade only (A-F). (6 hours laboratory)

441A-B. Advanced Interior Design (4-4)
Prerequisites: DESN 341B, 343 or consent of instructor.
Advanced interior design, space planning problems emphasizing relationships between built environment, human factors in design.
Letter grade only (A-F). (8 hours laboratory)
442G. Internship in Industrial Design (3)
Prerequisite: Consent of instructor.
Student internship experience in selected industrial design offices.
Opportunity to work under supervision of industrial designers in
discipline, challenges in practice of industrial design.
May be repeated to a maximum of 6 units. (6 hours laboratory)

442H. Internship in Interior Design (3)
Prerequisite: Consent of instructor.
Student internship experience in selected interior design offices.
An opportunity to work under supervision of interior designers,
architects in field to expand student understanding of complexities,
discipline, challenges in practice of interior design.
Limited to 6 units in one semester and a total of 9 units. (6 hours laboratory)

450. Public Exhibition (3)
Prerequisite: DESN 360 and two of the following: DESN 367, 368, 369 or 370 or consent of instructor.
To identify and refine an area of interest through the development of
a senior project and comprehensive exhibition.
Letter grade only (A-F). (6 hours laboratory)

460. Professional Practice in Design (3)
Prerequisite: DESN 360.
Standards of practice including marketing, contracts, portfolio
presentation and other aspects of the trade for design professionals.
Letter grade only (A-F). (6 hours laboratory)

490. Special Topics in Design (1-3)
Prerequisite: Consent of instructor.
Special topics of current interest in design will be selected for
intensive study.
Topics will be announced in the Schedule of Classes. May be
repeated to a maximum of 12 units with different topics. (2-6 hours laboratory)

495. Field Studies in Design (1-6)
An opportunity to study design movements, objects, theories,
techniques at appropriate off-campus locations.
Up to 6 units of cumulative credit may be earned in DESN 495.

499C. Special Studies in Display and Exhibition Design (3)
Prerequisite: Consent of instructor.
Opportunity for extensive work with faculty supervision on
individual problems in display, exhibition design.
Limited to 6 units in one semester and a total of 9 units. (6 hours laboratory)

499G. Special Studies in Industrial Design (3)
Prerequisite: Consent of instructor.
Opportunity for extensive work with faculty supervision on
individual problems in industrial design.
Limited to 6 units in one semester and a total of 9 units. (6 hours laboratory)

499H. Special Studies in Interior Design (3)
Prerequisite: Consent of instructor.
Opportunity for extensive work with faculty supervision on
individual problems in interior design.
Limited to 6 units in one semester and a total of 9 units. (6 hours laboratory)

GRADUATE LEVEL

590. Special Problems in Design (1-3)
Prerequisite: Consent of instructor.
Special problems of current interest in design will be selected for
intensive study.
Topics will be announced in the Schedule of Classes. Letter
grade only (A-F). May be repeated to a maximum of 12 units with
different topics. (2-6 hours laboratory)

599. Studio Problems in Design (3)
Prerequisite: Consent of instructor.
Advanced individual graduate projects, with faculty supervision, in
an area of design specialization.
Areas will be designated by letter at the time of registration. Letter
grade only (A-F). Limited to six units in one semester and a total of
12 units in any one area. (6 hours laboratory)

690A. Seminar in Design (3)
Prerequisite: Consent of instructor.
Selected reading and writing concerning topics relevant to
student's specific disciplines in design with opportunity for interdisciplinary discussion.
Letter grade only (A-F).

690B. Seminar in Design (3)
Prerequisite: Consent of instructor.
Professional preparation for designers stressing practical concerns
as well as current trends in design practices, theory and criticism.
Letter grade only (A-F).

692. Public Exhibition (2-3)
Prerequisite: Consent of instructor.
Planning, preparation, administration of a public exhibition of
creative work related to the design field.
Two units only for all M.A. candidates. Three units only for all
M.F.A. candidates. Course will result in a public exhibition by each
M.A. and M.F.A. candidate. Letter grade only (A-F). (6 hours or
more laboratory)

694. Directed Studies Studio (1-3)
Prerequisite: Consent of instructor.
Independent study in creative studio.
Letter grade only (A-F).

695. Field Problems in Design (1-6)
An opportunity to study design movements, objects, theories,
techniques or literature at appropriate off-campus locations.
Up to 6 units of cumulative credit may be earned in DESN 695.

697. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study in technical, historical aspects of design.
Letter grade only (A-F).

698. Thesis or Project (1-6)
Prerequisite: Advancement to candidacy.
Planning, preparation, completion of a thesis or project.
Required of all M.A. candidates. Letter grade only (A-F)

699. Thesis or Project (1-6)
Prerequisite: Advancement to candidacy.
Planning, preparation, completion of thesis or project.
Letter grade only (A-F). Required of all M.F.A. candidates and all
candidates seeking a second M.A.
ECONOMICS
College of Liberal Arts

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Advisors
Undergraduate: Joseph P. Magaddino
Graduate: Alejandro C. Edwards

Career Possibilities
Economist • Agricultural Economist • Financial Analyst •
Industrial Analyst • International Trade Economist • Labor
Specialist • Market Research Analyst • Tax Analyst •
Investment Analyst • Teacher • Securities Salesperson •
Bank Management • Loan Officer • Investment Counselor •
Social Researcher • Auditor • Credit Analyst • Statistician •
Urban Planner (Some of these, and other careers, require
additional education or experience. For more information,
see www.careers.csulb.edu.)

Introduction
When resources are scarce, difficult choices must be
made on how resources are to be divided among competing
uses. Economics is a social science that addresses the
allocation of scarce resources. When applied to individuals,
economics attempts to understand the behavior of
individuals as consumers, managers and government
officials. When applied to society as a whole, economics
attempts to explain and predict the economy's total output,
level of employment and price level.

Undergraduate Programs

Bachelor of Arts in Economics (code ECONBA01) (120 units)

The bachelor of arts degree with a major in economics
prepares students for a variety of careers in business and
government. The degree also provides the foundation for
attending in elementary and secondary schools and for more
advanced study in economics, business, law, and other
related fields.

Requirements
Lower Division: ECON 100, 101, ACCT 201, and either
MATH 115 or 122. Students with upper division status
decimating Economics as a major may substitute ECON 300
for ECON 100 and 101.
Upper Division: ECON 310, 311, and 380, and six
additional upper division courses in Economics of which at
least two must be at the 400 level. ECON 310, 311, and 380
must be completed with a grade of "C" or better. The following
courses may not be used to satisfy the elective requirement in

Option in Mathematical Economics and
Economic Theory (code ECONBA02) (120 units)

The Bachelor of Arts in Economics with an option in
Mathematical Economics and Economic Theory provides
students with the tools of economic analysis with an emphasis
on economic theory, economic optimization and statistics.
This option is recommended for students interested in
graduate study in economics.

Requirements
Lower Division: ECON 100, 101, MATH 122, 123, 224 and
247. Students with upper division status declaring the
option may substitute ECON 300 for ECON 100 and 101.
Upper Division:
Economic Theory: ECON 310, 311. ECON 310 and 311 must
be completed with a grade of "C" or better.
Statistics: MATH/STAT 380 and STAT 381.
Advanced Theory and Quantitative Methods: At least one of
the following courses: ECON 403, 410H, 411H, 420, 485 or
486.
Elective Courses: At least four additional upper division
courses in economics of which at least one economics
course must be taken at the 400 level. Students may
take one course from the following in meeting the elective
requirement: MATH 364A, 485; STAT 410 or 450; these
will not substitute for the 400-level economics requirement.
ECON 300, 306, 366, 380, 406 and 495 may not be taken
to meet the elective requirement.

Bachelor of Arts in Business Economics (code ECONBA03) (120 units)

The bachelor of arts degree with a major in business
economics provides students with the tools of economic
analysis and their application in a business environment.

The business economics major prepares students for
careers in the private or public sector. Students completing
this major will have a solid foundation in microeconomic
theory, macroeconomic theory, and quantitative methods.
They will have also completed courses in international
economics and business administration. The bachelor's
degree in business economics is excellent preparation for
graduate study in economics, business administration, public
administration, and law.

Requirements
Lower Division Requirements: ECON 100, 101, ACCT
201, and either MATH 115 or MATH 122. Students with upper
division status declaring economics as a major may substitute
ECON 300 for ECON 100 and 101.
Upper Division Requirements: ECON 310, 311, and 380,
and six additional upper division courses of which at least
two must be at the 400 level. ECON 310, 311, and 386 must be completed with a grade of "C" or better. At least two courses must be selected from Group A; at least two courses must be selected from Group B; and, at least one course from Group C. The remaining elective may be any class offered by the economics department, except ECON 300, 3061, 366, 406, or 499.

Group A: Analytical Economics (select at least two courses): ECON 355, 430, 432, 434, 450, 462, 470.
Group C: Business and Economics (select one course): ECON 320, 333, ACCT 310, FIN 300.

Minor in Economics (code ECONUM01)

The Minor in Economics is available to any non-Economics or non-Business Economics major.

The economics minor is designed to provide students with a broad-based introduction to the methods of economic analysis. It is suitable for students planning careers in many fields including primary and secondary education, journalism, law, or government. A minimum of 24 units is required, which must include:

- Lower Division: ECON 100 and 101, and either MATH 115 or 122. Students with upper division status declaring the minor may substitute ECON 300 for ECON 100 and 101 with departmental consent.
- Upper Division: ECON 310 and either ECON 311 or 320, and at least three additional upper division economics courses, of which at least one must be at the 400 level. The following courses may not be taken as upper division electives in economics: ECON 300, 495, and 499

Minor in Business Economics (code ECONUM02)

The Minor in Business Economics is available to any non-Economics or non-Business Economics major.

The minor in business economics is equally suitable for students pursuing baccalaureate degrees in non-business and business fields. The minor provides students with a strong concentration in the techniques of economic analysis most closely related to business decision-making. A minimum of 24 units is required, which must include:

- Lower Division: ECON 100 and 101, and either MATH 115 or 122. Students with upper division status declaring the minor may substitute ECON 300 for ECON 100 and 101.
- Upper Division: ECON 310 or 333, 311 or 320. The remaining 9 units (3 courses) may be selected from the upper division courses listed immediately above or any of the following courses: ECON 355, IS 310 or ECON 380, 372, 403, 420, 430, 432, 441, 450, 455, 465, 485, 486.

Minor in International Economics (code ECONUM03)

The Minor in International Economics is available to any non-Economics or non-Business Economics major.

The minor in international economics provides students with an introduction to the techniques of economic analysis and the application of those techniques to issues in the world economy. Students will learn about the economic history and institutions of other countries, issues associated with the economic growth of less developed countries, and international trade and finance.

The minor is suitable for students from all majors planning careers in a wide variety of fields including business, government, journalism and education. A minimum of 24 units is required and must include:

- Lower Division: ECON 100 and 101, and either MATH 115 or 122. Students with upper division status declaring the minor may substitute ECON 300 for ECON 100 and 101.
- Upper Division: ECON 310 or 333 and ECON 311 or 320, and any three of the following courses: ECON 366, 372, 465, 470, 471.

Master of Arts in Economics (code ECONMA01)

The Master of Arts degree in economics is designed to provide academic preparation for positions in industry, government, consulting agencies and teaching. The emphasis is on the immediate application of more advanced principles of analysis to business, management and government. Candidates are responsible for observing the general requirements stated in the Catalog as well as requirements specified by the Economics Department. Detailed information on requirements may be obtained from the department graduate advisor.

A limited number of graduate assistantships are available to qualified students.

Prerequisites

1. A bachelor's degree with a major in economics; or
2. A bachelor's degree with 24 units of upper division courses comparable to those required of a major in economics at this University (Deficiencies will be determined by the Economics Department);
3. A minimum undergraduate GPA of 3.0 ("B") in upper division economics courses.
4. Graduate students must consult with the graduate advisor for information concerning department procedures and for approval of their course of study before entering the master of arts program in economics.

Advancement to Candidacy

Satisfy the general requirements of the University for advancement to candidacy.

Requirements

1. Thirty-two units of upper-division and graduate courses (500- and 600-level courses, of which 26 units must be in economics with a minimum of 18 units in the 500 and 600 series. All students must develop two fields of concentration in economics, including economic theory (microeconomics and macroeconomics).
2. Satisfactory completion of ECON 503, 510, 511, 555 and 586.
3. Students must pass two comprehensive examinations, one in microeconomics and one in macroeconomics. Students must also successfully complete coursework in two elective fields of concentration with grades of "B" or better in the appropriate 600-level courses. A field of concentration includes a 600-level course and at least one upper-division or 500-level prerequisite course.
Courses (ECON)

LOWER DIVISION

100. Principles of Macroeconomics (3)
Prerequisites: MATH 103 or higher and one course from the Foundation Curriculum.
Money and banking, price changes, national income analysis, business cycles, economic growth, fiscal and monetary policy, international trade.
Not open for credit to students with credit in ECON 202.

101. Principles of Microeconomics (3)
Prerequisite or corequisite: MATH 103 or higher.
Business organization, price theory, allocation of resources, distribution of income, public economy.
Not open for credit to students with credit in ECON 201.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses, where students must first complete prerequisites and/or competency equivalent for advanced study.

300. Fundamentals of Economics (3)
Prerequisites: Completion of GE Foundation requirements.
Designed for non-majors. Presents basic training in economics for social studies teachers or citizens who wish to exercise a reasoned judgment about economic issues in public affairs. Content generally same as ECON 100, 101, in condensed form.
Not open for credit to students with credit in ECON 100 or 101 except by consent of the Economics Department.

306L. Environmental Issues of the World Economy (3)
Prerequisites: Completion of the G.E. Foundation and the Category B requirement, and ECON 101.
Interdisciplinary analysis of human impact on the atmosphere and biological diversity; consideration of policies to foster sustainable development with emphasis on the economic perspective.
Open only to nonmajors.

310. Microeconomic Theory (3)
Prerequisites: ECON 100, 101 and MATH 115 or 122.
Analysis of economic concepts and their applications to business situations. Emphasis on supply and demand analysis, costs of production, variations of competition and monopoly, revenues, prices, profits and losses, and other aspects of the operations of the business enterprises.
Any prerequisite course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in ECON 310.

311. Macroeconomic Theory (3)
Prerequisites: ECON 100, 101 and either MATH 115 or 122.
Determinants of levels of income, employment, and prices; secular and cyclical changes in economic activity; and of the effects of public policies upon aggregate economic experience.
Any prerequisite course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in ECON 311.

313. History of Economic Thought (3)
Prerequisites: ECON 100 and 101, or 300.
Evolution of economics as a science. Doctrines of the different schools of economic thought. Study of the contributions of outstanding economists.

320. Money and Banking (3)
Prerequisites: ECON 100, 101 and either MATH 115 or 122.
Nature and functions of money and its relation to prices; the monetary system of the United States; the functions of banks, bank credit, foreign exchange and monetary control.

333. Managerial Economics (3)
Prerequisites: ECON 100, 101 and either MATH 115 or 122.
The tools of marginal analysis and their application to managerial decisions and planning. Emphasis upon calculating solutions to operational problems. Topics include demand analysis, production and cost, pricing, and output decisions. Product and factor markets will be analyzed.

355. Law and Economics (3)
Prerequisites: ECON 100 and 101, or 300.
Analysis of economic concepts and their application to law and legal institutions. Emphasis on property law, contract law, accident law, crime control and judicial administration.

365. Introduction to Development Economics (3)
Prerequisites: ECON 100 and ECON 101 OR ECON 300.
Economic and social aspects of economic development. General analysis of all aspects of economies in developing countries.
Application of concepts to current situation in developing countries from different parts of the world.
Open only to nonmajors.

372. International Economics (3)
Prerequisites: ECON 100 and 101, or 300.
International trade and exchange rate theory. Types of trade control: tariffs, quotas, exchange manipulation; monopolies. Basic U.S. and European commercial policies since 1500.
Not open for credit to students with credit in ECON 471.

380. Economic Statistics (4)
Prerequisites: ECON 100, 101 and either MATH 115 or 122.
Use of descriptive and inferential statistical concepts for the analysis of economic data. Topics include measures of central tendency and dispersion, probability theory, discrete and continuous probability distributions, hypothesis testing, regression and correlation analysis.
Any prerequisite course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in ECON 380.
(3 lecture, 3 hours, activity, 2 hours)

403J/503. Mathematical Economics (3)
Prerequisites: ECON 310, 311, and consent of instructor.
Applications of calculus, linear algebra and other mathematical tools in formulating and solving economic problems. Designed for exceptional undergraduate students who intend to pursue a graduate degree in economics. Letter grade only (A-F).

410H/510H. Advanced Microeconomics (3)
Prerequisites: ECON 310 and 311.
Applications of microeconomic theory. Examination and analysis of particular markets and current issues. Specific emphasis on policy analysis for government and business decisions. This course is designed for exceptional undergraduate students who intend to pursue a graduate degree in economics. Letter grade only (A-F).

411H/511H. Advanced Macroeconomics (3)
Prerequisites: ECON 310 and 311.
Applications of macroeconomics, monetary and forecasting theory to operational management and planning decisions of government and business. This course is designed for exceptional undergraduate students who intend to pursue a graduate degree in economics. Letter grade only (A-F).

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420. Forecasting (4)
Prerequisites: ECON 380 and either ECON 311 or 320.
Principles and methods of forecasting. Evaluation of the reliability of existing forecasting techniques. Also covers use of the macroeconomic model as a basis for forecasting and the role of forecasts in the formulation of national economic policy.
(Lecture 3 hours, activity 2 hours.)

430. Industrial Organization (3)
Prerequisites: ECON 310 or 333.
The structure, behavior, and performance of firms and industries. Implications of separation of ownership and control, corporate social responsibility and the profit motive. The dilemma of size versus competition.

432. Economics of Antitrust (3)
Prerequisites: LCON 330 or 333.
An economic analysis of the leading judicial decisions comprising the modern law of antitrust. The future of antitrust including a discussion of proposals for legislative overhaul, including repeal of existing antitrust law.

434. Economics of Regulation (3)
Prerequisites: ECON 310 or 333.
A comprehensive survey of the past, present and future of the political regulation of economic and business activity. Consideration of the rationale for regulation and deregulation and the creation, design and removal of regulatory practices.

437 /537. Urban Economics (3)
Prerequisite: ECON 310.
Economic analyses of city formation and size, business and residential location decisions, land use. Application of microeconomic theory to urban transportation issues, residential segregation, urban poverty and crime, and housing markets. Introduction to local public finance and provision of local public goods.

438 /538. Regional Economics (3)
Prerequisites: LCON 330 and LCON 311.
Economic evolution and growth of cities, states and countries. Roles of geography, demography, location of industries, and factors determining regional growth and development will be considered. Special attention will be paid to the economic integration of U.S. states and European nations.

441. Labor Economics (3)
Prerequisites: ECON 310 and ECON 380.
Manpower resources and their utilization, with particular reference to labor unions, collective bargaining and related public policies. Effects of these institutions on production, employment, wages and patterns of income distribution.

450. Public Sector Economics (3)
Prerequisites: ECON 310 and 311.
Analysis of the theory of public goods. Criteria for efficient allocation of resources between private and public sectors. Possible responses of government expenditures, such as environmental pollution. Emphasis on the allocation and distribution effects of government expenditures and taxation.

455 /555. Transportation Economics (3)
Prerequisites: LCON 310 and LCON 380.
Economic analysis of intercity transportation, cost measurement, applications of pricing principles, project evaluation, and economic regulation. Policies towards railroads, air transportation, and intercity highways. Letter grade only (A-F).

462 /562. Environmental Economics (3)
Prerequisite: ECON 310.
Economic analysis of environmental problems and policy. Market failures due to externalities, public goods, and common property resources will be examined. Private (market) and public (governmental) solutions to environmental problems are examined.

463 /563. Energy Economics (3)
Prerequisite: ECON 310.
Application of economic analysis to energy problems and policies. Representative topics include macroeconomic effects of energy price shocks, international financial fragility, OPEC pricing strategies, determinants of demand and supply, industrial organization and finance, investor and publicly owned utilities, domestic and international policies.

464 /564. Natural Resource Economics (3)
Prerequisite: ECON 310.
Microeconomic and capital theory applied to problems of conserving and managing natural resources. Analysis of public policies affecting renewable and nonrenewable resources including price controls, taxation and leasing. Representative topics include: forestry, fisheries, energy, water, and mineral economics.

465 /565. Economic Development (3)
Prerequisite: ECON 310 and 311.
Economic and social factors underlying economic development. Analysis of problems associated with economic growth of less developed countries. Evaluation of development policies.

470 /570. International Trade (3)
Prerequisites: ECON 310.
Examines theories of trade, welfare implications of different trade policies, the political economy of trade policies, and global trading arrangements.

471 /571. International Finance (3)
Prerequisites: LCON 311 and LCON 380.
Covers topics in international finance in both an applied and theoretical framework, such as the balance of payments, the foreign exchange market, income, trade, capital flows, asset market adjustment mechanisms, and exchange rate regimes.

485 /585. Econometrics I (4)
Prerequisites: ECON 310, 311, and 380.
First course in a two-semester sequence introducing students to basic techniques in econometrics. Basic statistics and the classical linear regression model are covered. Emphasis is given to computing estimators using simulated and actual data sets.
(Lecture 3 hours, activity 2 hours)

486 /586. Econometrics II (4)
Prerequisites: ECON 485.
The second in a two-semester sequence introducing students to basic techniques in econometrics: advanced regression, including time-series and panel data analysis. Critical evaluation of selected examples of empirical economic research, and exercises in applied econometrics.
(Lecture 3 hours, activity 2 hours)

490. Special Topics in Economics (3)
Prerequisite: Consent of instructor.
Topics of current interest in economics selected for intensive development.
May be repeated to a maximum of 6 units. Topic will be announced in the Schedule of Classes.

491H. Senior Honors Seminar in Economics (3)
Prerequisites: Senior status, ECON 485 or 486, and consent of instructor.
Provides opportunity for students to integrate their knowledge of economics, statistics-econometrics and computer studies. Designed
as a seminar in research where students will be expected to write a paper and present their research orally. Research topics must be approved by instructor.

459. Field Studies Practicum (3)
Prerequisites: ECON 310 or 330 and consent of instructor. Observation and practical experience, at a managerial level, in an appropriate business or government enterprise. Applications for permission to enroll must be filed with the Economics Department at least six weeks prior to beginning of the semester involved. May be repeated to a maximum of 6 units.

499. Directed Study (1-3)
Prerequisite: Consent of instructor. Independent study under the supervision of a faculty member. May be repeated to a maximum of 6 units.

GRADUATE LEVEL

500. Business Economics (3)
Workings of the price system in resource allocation with special emphasis on the role of business in the economy. Analysis of the economic implications of various forms of industrial organization and the application of public policy to business activity. Not open to students majoring in economics or pursuing an M.A. in economics. Letter grade only (A-F).

503/403. Mathematical Economics (3)
Applications of calculus, linear algebra and other mathematical tools in formulating and solving economic problems. Letter grade only (A-F).

510H/410H. Advanced Microeconomics (3)
Prerequisites: ECON 403 or 503. Applications of microeconomic theory. Detailed examination and analysis of particular markets and contemporary issues in light of economic theory. Specific emphasis on policy analysis for government and business decisions. Letter grade only (A-F).

511H/411H. Advanced Macroeconomics (3)
Prerequisites: ECON 403 or 503. Applications of macroeconomics, monetary and forecasting theory to operational management and planning decisions of government and business. This course is designed for exceptional undergraduate students who intend to pursue a graduate degree in economics. Letter grade only (A-F).

537/437. Urban Economics (3)
Economic analyses of city formation and size, business and residential location decisions, and land use. Application of microeconomic theory to urban transportation issues, residential segregation, urban poverty and crime, and housing markets. Introduction to local public finance and provision of local public goods. Letter grade only (A-F).

538/438. Regional Economics (3)
Economic evolution and growth of cities, states and countries. Roles of geography, demography, location of industries, and factors determining regional growth and development will be considered. Special attention will be paid to the economic integration of U.S. states and European nations. Letter grade only (A-F).

555/455. Transportation Economics (3)
Economic analysis of intercity transportation, cost measurement, applications of pricing principles, project evaluation, and economic regulation. Policies towards railroads, air transportation, and intercity highways. Letter grade only (A-F).

562/462. Environmental Economics (3)
Economic analysis of environmental problems and policy. Market failures due to externalities, public goods, and common property resources will be examined. Private (market) and public (governmental) solutions to environmental problems are examined. Letter grade only (A-F). Same course as ECON 462. Not open for credit to students with credit in ECON 462.

563/463. Energy Economics (3)
Application of economic analysis to energy problems and policies. Representative topics include macroeconomic effects of energy price shocks, international financial fragility, OPEC pricing strategies, determinants of demand and supply, industrial organization and finance, investment and publicly owned utilities, domestic and international policies. Letter grade only (A-F). Same course as ECON 463. Not open for credit to students with credit in ECON 463.

564/464. Natural Resource Economics (3)
Microeconomic and capital theory applied to problems of conserving and managing natural resources. Analysis of public policies affecting renewable and nonrenewable resources including price controls, taxation and leasing. Representative topics include forestry, fisheries, energy, water, and mineral economics. Letter grade only (A-F). Same course as ECON 464. Not open for credit to students with credit in ECON 464.

565/465. Economic Development (3)
Economic and social factors underlying economic development. Analysis of problems associated with economic growth of less developed countries. Evaluation of development policies. Letter grade only (A-F).

570/470. International Trade (3)
Prerequisites: ECON 310. Examines theories of trade, welfare implications of different trade policies, the political economy of trade policies, and global trading arrangements. Letter grade only (A-F).

571/471. International Finance (3)
Covers topics in international finance in both an applied and theoretical framework, such as the balance of payments, the foreign exchange market, income, trade, capital flows, asset market adjustment mechanisms, and exchange rate regimes. Letter grade only (A-F).

585/485. Econometrics I (4)
First course in a two-semester sequence introducing students to basic techniques in econometrics. Basic statistics and the classical linear regression model are covered. Emphasis is given to computing estimators using simulated and actual data sets. Letter grade only (A-F). (Lecture 3 hours, activity 2 hours)

586/486. Econometrics II (4)
Prerequisites: ECON 585. The second in a two-semester sequence introducing students to basic techniques in econometrics: advanced regression, including time-series and panel data analysis. Critical evaluation of selected examples of empirical economic research, and exercises in applied econometrics. Letter grade only (A-F). (Lecture 3 hours, activity 2 hours)

597. Directed Studies (1-3)
Prerequisite: Consent of instructor. Intensive reading and/or practical research in economics. Letter grade only (A-F).

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660. Seminar in Natural Resources and the Environment (3)
Prerequisites: ECON 510H, 511H, 585, and one of the following: ECON 462, 463 or 464.
Research methods applied to selected topics from energy, natural resources, and the environment.
Letter grade only (A-F). (Seminar, 3 hours.)

666. Seminar in Transportation Economics (3)
Prerequisites: ECON 510H, 511H, 555 and 555.
Advanced topics in transportation economics including passenger and freight transportation issues, congestion pricing, toll roads, mass transit systems, maritime economics, transportation regulation, firm performance, as well as welfare effects of transportation policy.
Letter grade only (A-F).

670. Seminar in International Trade and Development (3)
Prerequisites: ECON 510H, 511H, 585 and either ECON 565, 570, or 571.
Selected topics dealing with current problems and solutions in international trade, finance, and development.
Letter grade only (A-F).

690. Seminar in Economics (3)
Prerequisites: ECON 510H, 511H, and 585.
Seminar on topics of current interest in economics.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Consent of instructor.
Independent research under the guidance of a faculty member.
Letter grade only (A-F).
EDUCATION, COLLEGE OF

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Introduction

The College of Education (CED) prepares students for professional careers in the field of public and private education through baccalaureate, certificate, credential and Master's programs offered in three departments: Liberal Studies, Teacher Education, and Advanced Studies in Education and Counseling.

The College of Education's primary purpose is to create and nurture a learning and teaching community committed to excellence in education. We fulfill our purpose by preparing professionals to be socially responsible leaders, engaging in research and scholarly activity which informs and improves practice, valuing diversity as we work to achieve common goals, serving and collaborating with schools, agencies, the community and each other, and engaging in an inclusive process for planning, communicating, working, and assessing progress toward our goals.

The College provides undergraduate and graduate studies in education. It offers specific curricula focusing on the preparation of personnel for teaching and educational service in the pre-school, elementary, middle and high schools, community colleges, adult programs, and other educational agencies. In addition to two certificate programs and a variety of teaching and service credentials, the College offers a Bachelor of Arts degree in Liberal Studies, a Master of Arts in Education degree with various options, Master of Science degrees in special education and counseling and an Education Doctorate in Educational Leadership. Descriptions that include prerequisites and requirements for each credential, certificate, and degree program are listed in this catalog in the department that houses the particular program. Doctoral program information is included at the end of this section.

College programs are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the California Commission on Teacher Credentialing (CTC).

Please visit the college website at www.csulb.edu for detailed information on departments, programs, centers, and offices.

Credential Programs

Public school teaching and service credentials in California are regulated by the state legislature and administered by the California Commission on Teacher Credentialing (CTC). Credential programs offered at CSULB have been developed to meet current requirements, which are complex and continually reviewed and changed by legislative action. Candidates for all credentials must meet local requirements in effect when completing credential programs. It is the responsibility of the student to be familiar with the program requirements contained in this catalog and to obtain current information from departments offering individual programs. For information regarding academic requirements, fieldwork, contact the specific credential program coordinator. For information on state credential laws and regulations, pending changes, and new legislation, contact the Credential Center (ED1-42; 562/985-4109; credentials@csulb.edu).

Basic Teaching Credentials

There are three types of basic teaching credentials:

- Multiple Subject
- Single Subject
- Education Specialist

The Preliminary Multiple Subject Credential authorizes the holder to teach all subjects in a self-contained classroom, generally in an elementary school. A teacher authorized for multiple subject instruction may be assigned to teach in any self-contained classroom — pre-school, kindergarten, grades 1 through 12, or in classes for adults. In addition to a sequence of professional preparation courses and student teaching, candidates for the Multiple Subject Credential must demonstrate subject matter competence by passing the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects) as a condition of entry to the program. With additional course work, students in the Preliminary Multiple Subject Credential Program may earn a Bilingual Cross Cultural and Academic Development (BCLAD) authorization in Spanish, Cambodian (Khmer), Chinoso (Mandarin or Cantonese), Korean,
or Vietnamese. For detailed information on the Multiple Subject Credential Program, refer to the Teacher Education Department section in this catalog or visit the Teacher Preparation Advising Center (ED1-67; 562/985-9259).

One of the pathways to a Multiple Subject credential is the Integrated Teacher Education Program (ITEP). ITEP combines undergraduate study of academic subjects aligned with the California standards for the K-8 curriculum with professional preparation courses, field experiences, and student teaching. ITEP students may also complete the requirements for the Education Specialist Credential or Bilingual Cross Cultural and Academic Development (BCLAD) Credential along with those for the Multiple Subject Credential and receive dual authorization. ITEP students are required to demonstrate subject matter competence by passing the CSET. Multiple Subjects exam as a condition of advancement to student teaching. For detailed information on the ITEP program, refer to the Liberal Studies section of this catalog or contact the Liberal Studies Department (AS 133; 562/985-4020).

The Single Subject Credential authorizes the holder to teach a specified subject. A teacher authorized for single subject instruction may be assigned to teach this subject at any grade level — pre-school, kindergarten, grades 1 through 12, or in classes for adults. In practice, most teachers with a single subject authorization teach departmentalized classes in middle, junior high or senior high schools. CSULB offers Commission on Teacher Credentialing-approved Subject Matter Programs in Art, Biological Sciences, Chemistry, English, Foreign Language (French, German, Italian, Japanese, Latin, Spanish), Geosciences, Health Science, Home Economics, Mathematics, Music, Physical Education, Physics, and Social Science. For detailed information on the Single Subject Credential Program, refer to the Single Subject Teacher Education section in this catalog or visit the Teacher Preparation Advising Center (ED1-67; 562/985-5325).

The Education Specialist Credential authorizes a candidate to teach in a special education assignment with students with special needs. This K-12 credential certifies individuals to work as a special day class teacher, inclusion support teacher, or as a resource specialist. In addition to a sequence of professional preparation courses and student teaching, candidates must demonstrate subject matter competence by passing all three sub-tests of the California Subject Examinations for Teachers: Multiple Subjects, or the appropriate CSET exam in Math, Science, or Language Arts as a condition of entry to the program. Another pathway to the Education Specialist Credential is the Integrated Teacher Education Program (ITEP), through which students can earn dual authorization to teach Multiple Subjects and Special Education. For detailed information on the Education Specialist Credential Program, refer to the Advanced Studies in Education and Counseling section in this catalog or visit the Teacher Preparation Advising Center (ED1-67; 562/985-9259).

Elementary and secondary teachers who wish to diversify their teaching authorizations may do so by fulfilling specific requirements. Further information is available in the Credential Center (ED1-42; 562/985-4109; credentials@csulb.edu).

Obtaining the Preliminary Credential
Requirements for the Preliminary and Professional Clear credentials are set by the Commission on Teacher Credentialing in accordance with state law. Requirements for the Preliminary credential include:
1. a bachelor’s degree from an accredited institution,
2. an approved professional preparation program, including the teaching of reading and student teaching,
3. verification of subject matter competence (coursework or examination),
4. passage of CBEST (California Basic Educational Skills Test),
5. completion of an approved course or examination in the U.S. Constitution,
6. demonstration of Level I computer technology proficiency (course or exam), and
7. for Multiple Subject and Education Specialist candidates, passage of the Reading Instruction Competence Assessment (RICA).

Graduates of CSULB credential programs must Commission and program requirements and are recommended for the Preliminary credential by the College.

Obtaining the Professional Clear Credential
The Preliminary Credential is valid for five years from the date of issuance and is not renewable. During the first five years of teaching, teachers are expected to earn the Professional Clear Credential through a Commission-approved Professional Teacher Induction Program sponsored by a school district, county office of education, college or university, consortium, or private school. The induction program includes the advanced study of health education, special populations, computer technology, and teaching English learners.

For information on the Professional Clear credential, contact the Credential Center (ED1-42; 562/985-4109; credentials@csulb.edu).

Entry Levels for Basic Credential Programs
Students may begin credential programs at five different levels:
1. Qualified candidates who wish to earn the Multiple Subject Credential may begin the Integrated Teacher Education Program (ITEP) in the Liberal Studies Department as first-term freshmen. This program leads to the Multiple Subject Credential in four and a half years of full-time, accelerated study.
2. Qualified transfer students from community colleges who wish to earn the Multiple Subject Credential and who have started the Integrated Teacher Education Program (ITEP) at their community college may continue the program as transfer students. This program leads to the Multiple Subject Credential in four and a half years of full time, accelerated study.
3. Junior level — With a carefully planned program, credential program courses may be taken as electives as early as the first semester of the junior year with completion of the program coming as early as the first semester after graduation.
4. Senior level — Credential program courses may be taken during the senior year as electives. The remaining
Degree Programs

Bachelor’s Degree Programs

The college offers a bachelor's degree in Liberal Studies through the Liberal Studies Department. The Liberal Studies Track I major is a cross-disciplinary liberal arts program of study that meets both the General Education and major requirements of the university. This major prepares students in the broad content necessary for successful elementary school teaching. Track I students often begin taking credential program courses in the junior or senior year, and complete the credential program in the first year after graduating. The Integrated Teacher Preparation Program (ITPP) is a Liberal Studies major that combines a broad liberal arts course of study with teacher preparation courses. ITPP students graduate with both a BA degree and a Preliminary Multiple Subject Teaching Credential. For more information, refer to the Liberal Studies Department section of this catalog.

Master’s Degree Programs

Master’s degree programs are offered in two departments within the College. General procedures, policies, requirements, and applications for the master’s degrees are available from the Graduate Studies and Research Office, ED1-7 (www.csulb.edu/graduate), and are listed following each option and specialization in the appropriate section of the catalog. In order to pursue a master’s degree, students must submit applications to both the University and the program.

The Advanced Studies in Education and Counseling Department offers a Master of Science degree in Counseling, with Options in Marriage and Family Therapy, School Counseling, Student Development in Higher Education, and Career Counseling; and a Master of Science degree in Special Education. The Master of Arts in Education degree is offered with Options in Educational Administration, Educational Psychology, Educational Technology, Librarianship, and Social and Cultural Analysis of Education.

The Teacher Education Department offers six options in the Master of Arts in Education: Curriculum and Instruction (Elementary Education), Curriculum and Instruction (Secondary Education), Dual Language Development, Early Childhood Education, Mathematics Education, and Reading/Language Arts.

To be considered for admission to a master's degree program, students must submit a program application, official transcripts, test scores (if applicable), and any additional program requirements to the Office of Graduate Studies and Research in the College of Education. Program applications vary; please check the individual program for additional requirements. Program applications may be obtained from the Office of Graduate Studies and Research (ED1-7; 562/985-8476; www.ced.csulb.edu/graduate). Please note: Not all programs admit students for the spring semester. For additional program information and contact numbers for advisors, visit the College of Education website at www.ced.csulb.edu and navigate to the appropriate program.
All master’s degree candidates in education are required either to complete a thesis or project or take a comprehensive examination according to the requirements of the degree or degree option. Application for enrollment for thesis, project, or comprehensive examination must be made by October 1 for the spring semester or by March 1 for the fall semester.

University Requirements for Admission to Master’s Programs

To be eligible for conditional admission to the respective College of Education master’s degree programs, applicants must meet the following grade point average (GPA) requirements:

Clear Conditional Admission — Applicants must have a GPA of 3.00 or higher in the last 60 semester or 90 quarter units of course work taken. Lower division and/or extension courses taken after obtaining the bachelor’s degree are excluded from this calculation.

Conditional Admission — Applicants who meet all requirements for clear conditional admission except one program requirement may nevertheless qualify for clear conditional admission by earning a minimum GPA of 3.00 on 12 units of approved course work planned by the student and advisor. Applicants who fail to meet more than one program admission requirement must be recommended by faculty as a promising candidate in order to be conditionally admitted.

NOTE: Individual programs retain the right to determine who is admitted to the program. Meeting the University requirements for clear conditional or conditional admission does not guarantee acceptance to the program.

Clear conditional admission to the CED is required for enrollment in 500 and 600 level courses.

Advancement to Candidacy

To be advanced to candidacy for a graduate degree, a candidate must:
1. Fulfill the Graduation Writing Assessment Requirement (GWAR);
2. Satisfy all general University requirements for advancement to candidacy, as well as the specific requirements for the degree option;
3. Complete all prerequisites and testing. File for an approved program of studies with the College of Education Office of Graduate Studies and Research, and be currently enrolled;
4. Be in the second semester of enrollment as a Master’s student;
5. Resolve all incomplete grades (to either “complete” or “default” grade).

Note: The Graduate Record Examination (GRE) is required for the MA in Education, Option in Educational Psychology.

Degree and Credential Programs at a Glance

Bachelor of Arts in Liberal Studies
Master of Arts in Education with Options in:
- Educational Administration
- Educational Psychology
- Educational Technology
- Curriculum and Instruction (Elementary Education)
- Curriculum and Instruction (Secondary Education)
- Dual Language Development
- Early Childhood Education
- Reading and Language Arts
- Mathematics Education
- Librarianship
- Social and Cultural Analysis of Education

Master of Science in Special Education
Master of Science in Counseling with Options in:
- Career Counseling (Temporarily suspended for new admissions)
- Marriage and Family Therapy (MFT)
- School Counseling
- Student Development in Higher Education

Ed.D. in Educational Administration and Leadership (Joint) (Suspended, no new students admitted)
Ed.D. in Educational Leadership

Teaching Credentials

Elementary:
- Preliminary Multiple Subject Credential Program
- Preliminary Multiple Subject Internship Program
- Preliminary Multiple Subject Credential Program with Bilingual Cross-cultural Language and Academic Development (BCLAD) Emphasis
- Integrated Teacher Education Program (ITEP)

Secondary:
- Single Subject Credential Program
  - Art, English (Emphasis in Black Studies, Comparative Literature, Creative Writing, Journalism, Language and Linguistics, Lorantry and Composition, Literature, Speech, Theatre Arts), Languages Other than English (French, German, Italian, Japanese, Latin, Spanish), Health Science, Home Economics, Life Science, Mathematics, Music, Physical Education (Adapted P.E., Elementary School, Secondary School), Physical Science (Chemistry, Earth Science, Physics), Social Science (covering Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology)
- Single Subject Intern Credential Program

Specialist Teaching Credentials

- Reading and Language Arts
- Education Specialist Credential Program, Level I: Mild/Moderate Disabilities
- Education Specialist Internship Program, Level I: Mild/Moderate Disabilities
- Education Specialist Credential Program, Level I: Moderate/Severe Disabilities
- Education Specialist Internship Program, Level I: Moderate/Severe Disabilities
- Education Specialist Credential Program, Level II: Mild/Moderate Disabilities
- Education Specialist Internship Program, Level II: Mild/Moderate Disabilities
- Education Specialist Credential Program, Level II: Moderate/Severe Disabilities
- Education Specialist Internship Program, Level II: Moderate/Severe Disabilities

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Services Credentials
- Preliminary Administrative Services
- Professional Administrative Services
- Teacher Librarian Services
- School Counseling
- School Counseling Internship
- School Psychology
- School Psychology Internship

Graduate Certificates
- Career Guidance Specialist (discontinuance under consideration, admission suspended)
- Community College

Other Credentials and Authorizations
Please refer to the College of Health and Human Services section of this catalog for credential programs in:
- Adapted Physical Education
- Designated Subjects
- Health Services (School Nurse)
- Clinical Rehabilitative Services – Language, Speech, and Hearing
- Clinical Rehabilitative Services – Audiology
- School Social Work, Child Welfare, and Attendance

College Offices and Services
Scholarships
Scholarships are available for undergraduate teacher track, credential, master’s, and doctoral students in the College of Education. Scholarship applications are available the first week in November in the Office of the Dean, ED1-6, and online at www.coe.csulb.edu, and should be completed and submitted by the second Friday in February. Scholarship recipients are identified by the fourth week of April and the scholarship funds are awarded for the beginning of the next academic year.

Educational Career Services (ECS)
Educational Career Services assists students and alumni in their search for professional positions in the field of education. ECS serves teacher candidates and also provides services to students and alumni seeking positions as school administrators, school counselors, school psychologists, college instructors, librarians, and other positions in education. Services offered by ECS include: maintaining links to web-based job banks, posting job vacancy notices, sponsoring job fairs, conducting job search seminars, providing individual advisement, and providing information about professional educational opportunities. Appointments may be scheduled with an Educational Career counselor to obtain information about the current job market in education or to receive assistance with resume writing or job interview skills. ECS is located in ED1-33, telephone (562) 985-5722.

Credential Center (CG)
The Credential Center assists students in pursuit of their credential and educational goals. Center staff serve as a campus liaison to the State of California Commission on Teacher Credentialing (CTC), and coordinate the dissemination of credential information to University staff, faculty, students and the general public. The Credential Center is responsible for the evaluation, verification, and recommendation of all initial elementary teaching, secondary teaching, specialist, and service credentials. The Center serves as a University resource for credential requirements and regulations, which includes advisement for out-of-state and out-of-country credential applicants and assistance to credentialled teachers seeking renewal information. The Center is located in ED1-42, telephone (562) 985-4109, email credentials@csulb.edu.

Service Experiences for ReVitalizing Education (SERVE)
The SERVE Program creates an opportunity for students at the undergraduate level, in particular those who are considering careers in K-12 education, to learn about the realities of urban classrooms and the needs of the diverse K-12 student population. SERVE interns work with students individually and in small groups to provide academic support and encourage personal growth. Through this involvement CSULB students assess their career goals and provide direct service to students and teachers in grades K-12 and to their communities. SERVE is located in ED1-17, telephone (562) 985-5499.

Educational Psychology Clinic
The Educational Psychology Clinic serves as a primary training site for the School Psychology, School Counseling, Marriage, Family Therapy, and Reading/Language Arts Specialist Credential Programs, while providing comprehensive educational and psychological services to children at a moderate cost. Services at the Clinic are provided by graduate students under the supervision of faculty in the College of Education. Specific services provided at the clinic include psychoeducational assessments, counseling and tutoring. Administrative fees for clinical services are reduced for CSULB students and those with financial need. The Educational Psychology Clinic is located in ED2-155, telephone (562) 985-4991, website www.coe.csulb.edu/odpsoclinic.

Center for Language Minority Education and Research (CLMER)
The Center for Language Minority Education and Research (CLMER) engages in a wide range of services, projects and research initiatives to promote equity, excellence and justice in schools and society, with a focus on traditionally underserved and underrepresented children, families and communities. Services, projects and research initiatives align with a vision for an inclusive, democratic society and promote evidence-based approaches to relevant human, organizational and educational change. CLMER is located in ED1-18, telephone (562) 985-5006.

Center for Collaboration in Education (CCE)
The Center for Collaboration in Education coordinates information on the various university/community partnerships. These partnerships are focused on the renewal of the education profession and the pursuit of a high quality seamless public education/higher education pathway.
Educational Leadership Doctorate

P-12 Specialization (code EDADPH02)
Community College/Higher Education Specialization (code EDADPH03)

The Education Leadership doctoral program is designed to prepare current and future P-12 educational leaders to develop and nurture organizations that are designed to serve the diverse populations of southern California. Graduates of this program will be prepared to serve as leaders in urban education with expertise to function in a global technological society. The program produces reflective practitioners aware of the complex challenges of curriculum, finance, organizational dynamics, and collaboration with local, state, and national stakeholders.

Students will become more effective leaders by (a) solving problems from multiple perspectives; (b) using multicultural competence to interact with personnel, students, and community members; (c) challenging assumptions to improve educational systems; and (d) learning to lead organizations toward respect of divergent viewpoints, learning styles, and ranges of ability.

Emphasis is placed on the expanding and changing role of education for social change to meet the needs of society. Graduate students in a learning cohort community will experience an interdisciplinary approach to the study of educational leadership, teaching and learning, organizational development, management and research.

Graduates of the program will be qualified for a variety of teaching and leadership positions in education and education-related settings, such as superintendent, central school office administrator, school principal in P-12, or chancellor, president or administrator in community colleges or 4-year universities.

Degree Designation

The degree is designated as the Educational Leadership Doctorate (Ed.D) and is granted at California State University, Long Beach.

University Admission

Applications are reviewed annually and students accepted to the program begin study in the summer of each year. Students must file an application for Graduate Admission along with one complete set of official transcripts from all educational institutions with the University Office of Admissions.

Program Admission Requirements

In addition to the university application, prospective students must also submit a program application. Admission is granted on a competitive basis; meeting the minimum requirements qualifies an individual for consideration but does not guarantee admission to the program. Requirements for admission will apply to all Ed.D. applicants and include:

1. Evidence of completing an acceptable baccalaureate degree earned at a regionally accredited institution.
2. Evidence of completing a master's degree earned at a regionally accredited institution, or the applicant has completed equivalent academic preparation.
3. A cumulative grade point average of at least 3.0 in upper-division and graduate study combined.
4. Good standing at the last institution of higher education attended.
5. Demonstration of sufficient preparation for, experience in, and potential for educational leadership, including: successful experience in leadership in school, postsecondary, or community contexts, and/or policy leadership; academic excellence; problem-solving ability; technological proficiency; interest in critically assessing current educational policies and practices; and interest in improving current educational policies and practices.
6. Graduate Record Examination (GRE) scores from the three sections of the General Test, taken within five years of applying to the Ed.D. program.
7. Three letters of recommendation attesting to leadership and scholarship potential.
8. A written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges in California.
9. A written statement from the applicant describing the applicant's plan for meeting professional responsibilities and the demands of the program.
10. A written statement from the applicant's employer indicating support for the applicant's doctoral studies, if applicable.
11. A personal interview.

Program Requirements

The program requires a minimum of 60 units of which 12 are dissertation units. At least 42 units must be completed in residence at the campus.

All courses must be completed:
1. Core courses (23 units): EDLD 720, 721A-E, 722, 723, 724, 725, 726
2. Research courses (13 units): 730, 731, 732, 733, 734, 735
3. Specialization courses (12 units; choose one specialization): A. Community College/Higher Education Specialization: EDLD 740, 741, 742, 743 B. P-12 Specialization: 750, 751, 752, 753
4. Dissertation (12 units): EDLD 798

Doctoral students must maintain a 3.0 GPA to be in good standing. Students who have a grade point average below 3.0 in two successive terms will be disqualified from the program.

The Ed.D. program is designed to allow students to complete all program requirements within three calendar years, including three required summer sessions. Students are expected to complete program requirements within five years after full admission to the program. Extensions of up to two years may be granted if the student is in good standing, there are compelling individual circumstances, and the student demonstrates current knowledge of research and practice in educational leadership. After completion of all course work and successful completion of the qualifying examination, the student will advance to candidacy and undertake the dissertation.

Continuous enrollment is a requirement of the program. If extenuating circumstances require that the student leave the program for a period of time, the faculty will consider an adjusted schedule and an individualized plan.

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Qualifying Examination Paper

The qualifying examination paper shall include a rigorous written demonstration of student knowledge; the examination must be passed prior to the student's advancement to candidacy. The examination will be due by the end of the fourth term in the program. The student will demonstrate knowledge from coursework taken to date: (1) Leadership core courses, (2) Research Methods courses, and (3) Specialization courses completed up to that time. The structure of the qualifying examination paper will be a definition of the problem under study and a review of the literature that could serve as a preparatory chapter of the dissertation.

Dissertation Proposal Examination

The dissertation proposal examination and oral defense will evaluate the student's readiness to proceed with the dissertation research. The dissertation proposal examination will consist of the first three chapters of the dissertation. It will typically focus on an examination of (a) an educational issue, (b) a practice or program, (c) an educational policy or reform or improvement, or (d) implementation studies within an educational organization or community setting.

The dissertation committee will evaluate the proposal. A determination of passing must be made by consensus of the committee. Passing this examination shall constitute formal approval for the candidate to proceed with the proposed dissertation research, subject to Institutional Review Board approval.

Advancement to Candidacy

After being admitted to the program, passing the qualifying examination, completing coursework, and successfully defending the dissertation proposal, the student will advance to candidacy. The total time from admission until candidacy shall not exceed three years unless there are mitigating circumstances and the program faculty have approved the extension. An extension for advancement to candidacy shall not exceed one year.

Dissertation

The dissertation shall be the written product of systematic, rigorous research on a significant educational issue. The dissertation is expected to contribute to an improvement in public P-12 or community college professional practices or policy, generally or in the context of a particular educational institution.

The dissertation shall identify the field-based research problem and question(s), state the major theoretical perspectives, explain the applied significance of the undertaking, relate it to the relevant scholarly and professional literature, set forth the appropriate sources for and methods of gathering and analyzing the data, and offer a conclusion or recommendation. It shall include a written abstract that summarizes the significance of the work, objectives, methodology, and a conclusion or recommendation.

The Dissertation Committee will minimally consist of a chair and two members. The chair will be selected by the procedure followed by the College of Education. The chair and student will then select two other members: one will be from the CED faculty and the other will be either a university faculty member outside of the CED, a P-16 practitioner who holds a doctorate, or a community member associated with the program who holds a doctorate.

The dissertation committee chair shall provide primary supervision for the dissertation. The chair shall be a tenured or tenure-track faculty member in the College of Education. The Ed.D. program director may allow the replacement of a committee member, based on the evaluation of a rationale provided by the student or committee member making the request.

Final Examination Oral Defense of the Dissertation

The Dissertation Committee will conduct a final oral examination during which the doctoral student defends the dissertation. By unanimous vote the Committee may approve the dissertation and recommend the conferral of the degree or may request minor and/or substantive changes. In the event that the Dissertation Committee requires substantive changes, the final vote of the Committee will be postponed until the changes are completed. The Committee may also vote to reject the dissertation, thereby ending the student's participation in the degree program.

Courses (EDLD)

720. Proseminar in Educational Leadership (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
An introduction to the field of educational leadership, an orientation to doctoral education, skill development for successful completion of the doctorate, and peer and professional mentoring groups to support students throughout the program. This is the first semester of a six semester sequence.
Letter grade only (A-F)

721A. Advanced Proseminar in Educational Leadership (1)
Prerequisite: Admission to the Educational Leadership Doctorate program and EDLD 720 or consent of program director.
Focus on integrating theory and research into practice. This is the second semester of a six semester sequence.
Credit/No Credit grading only.

721B. Advanced Proseminar in Educational Leadership (1)
Prerequisite: Admission to the Educational Leadership Doctorate program and EDLD 720, 721A or consent of program director.
Focus will be on exploring career options in educational leadership. This is the third semester of a six semester sequence.
Credit/No Credit grading only.

721C. Advanced Proseminar in Educational Leadership (1)
Prerequisite: Admission to the Educational Leadership Doctorate program and EDLD 720, 721A, 721B or consent of program director.
Focus on preparing for the qualifying examination. This is the fourth semester in a six semester sequence.
Credit/No Credit grading only.

721D. Advanced Proseminar in Educational Leadership (1)
Prerequisite: Admission to the Educational Leadership Doctorate program and EDLD 720, 721A, 721B, 721C or consent of program director.
Focus on the role of inquiry in practice. This is the fifth semester of a six semester sequence.
Credit/No Credit grading only.
721E. Advanced Proseminar in Educational Leadership (1)
Prerequisite: Admission to the Educational Leadership Doctorate program and EDLD 720, 721A, 721B, 721C, 721D or consent of program director.
Focus on current issues and trends in leadership. This is the sixth semester of a six-semester sequence.
Credit/no credit grading only.

722. History and Systems of U.S. Education (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Critical analysis of major schools of U.S. historical thought and their connection to social developments and examination of history as an interpretative, subjective process in which historians engage in dialogue with larger intellectual communities.
Letter grade only (A-F).

723. Legal and Ethical Leadership: Implications for Policy and Practice in P-16 Educational Settings (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of legal and ethical issues, implications, and applications. Exploration of leadership in complex educational environments, multiple perspectives applying legal and ethical principles and policies. Technological legal research. Examination of broad national and state theoretical and practical contexts using an ethical, legal leadership framework.
Letter grade only (A-F).

724. Critical Perspectives of U.S. Education and Diversity (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of identity in relation to disenfranchisement in educational institutions, multiple forms of cultural hegemony, policy and practices that foster inequality in schooling as well as issues related to students with disabilities and second language learners.
Letter grade only (A-F).

725. Organizational Leadership in Educational Settings (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of leadership from a leader’s perspective. Analysis of organizational theory, structure, culture, and interrelationships from multiple perspectives as well as the leader’s role in managing critical factors that can undermine a high performance organization.
Letter grade only (A-F).

726. Policy, Politics, Power in Educational Settings (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
In-depth analysis of topics relevant to politics and power in educational policy and reform. Exploration of issues related to governance, structure, programs, leadership, strategic planning and assessment.
Letter grade only (A-F).

730. Educational Research Epistemologies and Methodologies (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
In-depth exploration of epistemological underpinnings of educational research, qualitative and quantitative studies, and emergent research and methodologies pertinent to educational practice and policy.
Letter grade only (A-F).

731. Qualitative Research Methods for Educational Leadership (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Advanced study of qualitative research traditions and methods for both understanding and application. Methods and research design elements include ethnographic and focus group interviews, participant and naturalistic observation, case study and document analysis.
Letter grade only (A-F).

732A. Inferential Data Analysis in Education A (3)
Prerequisites: Admission to the Educational Leadership Doctorate program and EDLD 730 or consent of program director.
Hypothesis testing using analysis of variance, factorial analysis of variance, analysis of covariance, multiple regression, and path analysis. A focus on data analyses to address research questions, interpretation of the results, and preparation of a written report of the findings.
Letter grade only (A-F).

732B. Inferential Data Analysis in Education B (3)
Prerequisites: Admission to the Educational Leadership Doctorate program and EDLD 730 or consent of program director, ED P 419 or equivalent, and EDLD 730.
Hypothesis testing using analysis of variance, factorial analysis of variance, analysis of covariance, multiple regression, and path analysis. Overview of Structural Equation Modeling. A focus on data analyses to address research questions, interpretation of the results, and preparation of a written report of the findings.
Letter grade only (A-F).

733. Program and Student Assessment (1)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Assessment of student learning and development and program assessment. Focus on design of a holistic program evaluation incorporating assessment and measurement of student outcomes.
Letter grade only (A-F).

734. Survey Methods in Educational Research (1)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Focus on application and practical methodological tools in designing survey research in educational settings.
Letter grade only (A-F).

735. Applied Field Research (2)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Field experience and research. Student participation in work related to an approved topic or to a faculty member’s research and scholarship.
Letter grade only (A-F).

740. Policy and Finance Issues in Community Colleges (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
In-depth analysis of the community college system, function and purpose. Exploration of issues related to governance, structure, programs, leadership, and strategic planning and assessment.
Letter grade only (A-F).

741. Teaching and Learning in Post Secondary Settings (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Focus on student development and learning theories based on cognitive, psychosocial, typology, and person-environment perspectives. Exploration of the role of faculty and others in the collaborative development and implementation of responsive curricula at 2- and 4-year institutions.
Letter grade only (A-F).
742. Exploration of Campus Cultures: Impact and Influence (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of faculty, administrative, and student cultures in terms of values, behavioral norms, impact and influences. Application of research methods to the study of campus cultures. Dialogue concerning the implications of these findings for higher education policies and practices.
Letter grade only (A-F).

743. Leadership in Higher Education (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Analysis of current research and theories on leadership and organizational change in higher education: multicultural organizational development theories, planning, change, and the effective strategies for change. Exploration of case studies of organizational leadership.
Letter grade only (A-F).

750. Instructional Improvement and Accountability (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of the role of educational leaders in engaging stakeholders in data collection, analysis, and application to practice, the development of a culture of inquiry, and the distribution of leadership for continuous instructional improvement and accountability systems design.
Letter grade only (A-F).

751. Organizational Culture and Community Engagement in Education (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of school organizational culture, leadership and the local community in a global context: organizational strategies and development of teams to promote systemic change, cultural transformation, and social justice.
Letter grade only (A-F).

752. Financial and Human Resource Development (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of the acquisition, distribution, cultivation and management of human, fiscal, and time resources in public education. Identification and application of skills necessary for housing human and financial resources that further the goals of a school and district.
Letter grade only (A-F).

753. Supervision of Curriculum, Teaching, Learning and Assessment (3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Advanced theoretical analysis of curriculum, teaching, learning, and assessment of student achievement in diverse settings: impact of electronic information technology on student knowledge acquisition; principles of professional development; macro and micro political and policy influences; leadership implications.
Letter grade only (A-F).

790. Special Topics in Educational Leadership (1-3)
Prerequisite: Admission to the Educational Leadership Doctorate program or consent of program director.
Examination of various issues in educational leadership. Topics will be announced in the Schedule of Classes.
Letter grade only (A-F). May be repeated with different topics in the same semester up to a maximum of 24 units.
A. Issues of Leadership Roles and Responsibilities
B. Change Management
C. Focus Group Facilitation
D. Data-based Organizational Change
E. Applications of Technology
F. The Needs of Student Populations
G. Governing Boards
H. Staff Development Programs
I. Personnel Assessment Instruments

797. Directed Individual Study (1-3)
Prerequisites: Consent of instructor, department chair and associate dean.
Individual research or intensive study under the guidance of a faculty member.
Letter grade only (A-F). May be repeated to a maximum of 24 units in different semesters. Special Begin Date: Summer 2007

798. Doctoral Dissertation (3)
Prerequisites: Consent of instructor/dissertation adviser required. Student research and writing of the Ed.D. dissertation. Credit/no credit grading only. May be repeated to a maximum of 24 units in different semesters.
Electrical Engineering
College of Engineering

Department Chair: Bahram Shahian
Department Office: Engineering and Computer Science (ECS) 512
Telephone: (562) 985-9102/3103
Website: http://www.csulb.edu/colleges/coe/ee

Faculty: Maryland Mouzaker, James Ary, Chin Cheng, Anastasios G. Chantzikos, Christopher Drezdzinski, Fusio Hamano, Kenneth James, I-Hung Khoo, Rajendra Kumar, Slawomir Lobodinski, Yulin E. Mong, Hassan Mohimood-Nour, Hannah Reddy (Emeritus),
Alfonso Ruada, Bahram Shahian, Robert Tong, Chi-Sang Tsang, Mahmoud Wagdy, Fei Wang, Nai Wang, Henry Yeh

Undergraduate Advisers
Electrical Engineering: James Ary
Electronics and Computer Engineering Technology: I-Hung Khoo
Electronics Engineering Technology: I-Hung Khoo
Graduate Advisor: Fusio Hamano

General Education Advising: Academic Advising - Horn Center
Biomedical Engineering Advising: Christopher Drezdzinski
Administrative Coordinator: Barbara V. L. Marshall

Students desiring detailed information should contact the department office for referral to one of the faculty advisors.

Career Possibilities
Electrical Engineer • Systems Engineer • Electronics Engineer • Communications Engineer • Electrical Design Engineer • Sales Engineer • Electronics Test Engineer • Research Engineer • Consultant • Manufacturer's Representative • Safety Engineer • Quality Control Specialist • Production Manager (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Advisory and Development Council
The Department of Electrical Engineering is supported by an Advisory and Development Council consisting of outstanding engineers and executives from industry and government in southern California. Its function is to form a liaison between the University and industry and to keep the administration and faculty informed of modern engineering practices. This ensures that the curriculum is kept up-to-date. It also advises on placement opportunities before and after graduation.

ABET Accreditation
The Bachelor of Science in Electrical Engineering Program and the Bachelor of Science in Electronics Engineering Technology and Computer Engineering Technology Programs are respectively accredited by the Engineering Accreditation Commission (EAC) and the Technology Accreditation Commission (TAC) of ABET, Inc., 111 North Wacker Drive, Suite #1050, Baltimore, MD 21202, phone: 410-347-7700, website: http://www.abet.org.

Undergraduate Programs

Bachelor of Science in Electrical Engineering (code EE_BSO1) (133 units)
The objectives of the Bachelor of Science in Electrical Engineering Program are to prepare students to be successful and advance in their chosen careers in industry, academia, and public institutions, making significant contributions to the field of electrical engineering.
The above objectives are achieved by providing students:
1. a solid foundation in basic science, mathematics, and EE principles and major design skills to maintain high employability, adaptability, and an ability to develop and apply new technology;
2. effective communication skills to be able to progress in their careers;
3. an awareness of ethical and societal responsibilities;
4. an ability to work effectively in a team environment.
The bachelor's degree in electrical engineering is designed to prepare graduates for responsible engineering positions in design, development, research, applications, and operation in the fields of communications, control systems, digital signal processing systems, electromagnetics, digital and analog electronic circuits, physical electronics, computer-aided design and power systems. The curriculum is built around a strong basic core of mathematics, physics and engineering science. This is followed by intermediate courses in electrical engineering topics and finally a senior elective sequence including a senior design seminar and terminating in a capstone design course.
By choice of senior elective sequence comprehensive coverage is provided in any one of the above fields.
Laboratory facilities are available in the engineering buildings allowing for basic as well as more advanced laboratory instruction in electronics, digital signal processing, control systems, microelectronics, communications, power, and digital systems.

Requirements
Core: CEECS 174, EE 200, 201, 202, either EE 210 and 210L or PHYS 152, PHYS 211, 211L or ENGR 101, 102; MATH 122, 123, 224; MATH 370A or equivalent; PHYS 151, 254, EE 310, 330. Each of the foregoing courses must be completed with a grade of "C" or better as well as all courses that are prerequisite or corequisite to courses required for the major including ENGRI 100 or equivalent. Other required courses are EE 346, 347, 350, 370L, 370L, 380, 382, 386, 400D, 430, 430L, EE 460 or 462 or 464, CE 370 or MAE 330.

Each BSEE student must propose course work consisting of a capstone design course supported by at least two related courses, which form an area of in-depth study as approved by the EE Undergraduate Advisor. Possible areas of study include but are not limited to power, digital signal processing, control, communications and electronics. A list showing the required supporting courses and capstone design course for
each area of study is available from the EE Undergraduate Advisor. Combinations of the above areas of study or another area of study may be proposed to the EE Undergraduate Advisor. Additional elective courses must be chosen from EE 400 level courses to total at least 15 units. The entire program must total at least 133 units.

A grade of "C" or better is required for the capstone senior design course in the area of specialization.

Concurrent and/or Summer Enrollment in Another College

Students who wish to take coursework in a community college or another college to meet curricular requirements while enrolled as an undergraduate in the Department of Electrical Engineering must petition the EE Undergraduate Advisor for prior approval to enroll in specific courses. This policy is for either concurrent enrollment or summer enrollment. Prior approval for transfer credit for upper division major courses may generally be approved for no more than six semester units, subject to approval by the EE Undergraduate Advisor and the EE Department Chair who may require sufficient information to determine if each requested course is deemed equivalent to an EE course at CSULB. Exceptions require approval by vote of the Undergraduate Curriculum Committee.

Bachelor of Science in Engineering Option in Biomedical and Clinical Engineering (code EE__BS02) (135 units)

The Department of Electrical Engineering administers an option in Biomedical and Clinical Engineering that allows the student to acquire substantive competence in biomedical engineering and biology. This program builds upon a strong base of biology, mathematics, physics, chemistry, and engineering science to develop a clinically oriented biomedical engineer to serve medical and industrial needs. It includes a core of standard electrical engineering courses as well as courses in biomedical engineering, anatomy, physiology and biology. Elective units are available in the senior year to explore individual areas of interest.

Students planning to attend medical, dental or other health professional or graduate schools in Biomedical Engineering may select courses in Chemistry and/or Biology with the approval of the Biomedical Engineering advisor.

Laboratory facilities in the field of biomedical engineering are available in the engineering buildings; and laboratory facilities for anatomy and physiology are available on campus. Computer systems are available to simulate biological systems and to collect, process and display physiological data.

Requirements

CECS 174; CHEM 111A; EE 200, 201, 202, 211, 211L, 310, 330; MATH 370A; MATH 122, 123, 224; PHYS 151, 152, 254. Each of the foregoing courses must be completed with a grade of "C" or better as well as all courses that are prerequisite or corequisite to courses required for the major including ENGL 100 or equivalent. The interdisciplinary courses as well as Communications Studies (COMM) courses required for General Education must be taken for a letter grade. BIOL 207 (GE category B1a); EE 346, 347, 350, 370, 370L, 382, 406, 406L, 407, 430, 460; MAE 330 or CE 370; plus additional approved biomedical electives, including an approved senior design course to at least 135 units. A grade of "C" or better is also required for EE 406, 406L, and 407.

Bachelor of Science in Electronics Engineering Technology

For requirements and courses, see description in the Engineering Technology Programs section of this catalog.

Bachelor of Science in Computer Engineering Technology

For requirements and courses, see description in the Engineering Technology Programs section of this catalog.

Certificate in Energy Conversion and Power Systems Engineering (code MAE_CT04)

The 27-unit Certificate Program in Energy Conversion and Power Systems Engineering is an undergraduate program designed to prepare electrical and mechanical engineering students to become proficient in the analysis and design of power generating systems such as direct conversion, coal burning, hydraulic, nuclear, solar, wind and various other types of power plants and systems, and industrial electric power systems design.

For certificate requirements see the Mechanical and Aerospace Engineering Department section of this catalog.

Graduate Programs

Master of Science in Electrical Engineering (code EE__MS01)

This program affords an opportunity for engineers and others to advance their competency in analysis and design to better meet the high technology needs of local industry. Each student selects two core courses and three graduate courses in one area of emphasis, and the remaining courses must augment and support the area of emphasis. Some current examples of areas of emphasis are biomedical, communications, computer/communication networks and security, control systems and robotics, digital signal processing, digital and computer systems, electromagnetics and optics, electronics, engineering mathematics, networks and filters, power, and wireless communications. Students may create other areas of emphasis with the approval of the graduate advisor. Students will choose one of the three alternatives: thesis, project, and course-only. Successful completion of a thesis provides a culminating experience to the program, and an enhanced resume for future industrial or academic endeavor. A limited number of laboratory and teaching assistantships are available to qualified graduate students.

Prerequisites

1. A bachelor's degree from an accredited program in electrical engineering or a bachelor's degree from an accredited engineering, natural science or other appropriate program with the requirement that essential undergraduate deficiencies in electrical engineering are removed prior to Advancement to Candidacy.
2. The prospective graduate student must have attained a GPA of at least 2.7 for the last 60 semester units (90 quarter units) attempted prior to entry in the MSEE program.

The student should apply online at CSU Mentor or send a paper-based application directly to the University Admissions Office. Do not send an application to the Department. International students should apply online at CSU Mentor or through the Center for International Education.

Requirements

EE core courses consist of the following: EE 503, 505, 508, 509, and 511. Students must select at least 2 out of the above 5 courses appropriate to their area of emphasis and subject to the approval of the Graduate Advisor. Completion of a minimum of 30 units in 400-, 500-, or 600-level courses as approved in advance by the graduate advisor. Students must choose one of the following three alternatives: thesis, project, and course-only.

1. Thesis Alternative: 500/600-level courses in EE including the above core requirement (15 units); EE 697 (3 units); EE 698 (6 units); 400/500/600-level courses in EE (6 units); Comprehensive Oral Exam on Thesis.

2. Project Alternative: 500/600-level courses in EE including the above core requirement (21 units); EE 697 (3 units) on a capstone project; 400/500/600-level courses in EE (6 units); Comprehensive Oral Exam on the capstone project.

3. Course-Only Alternative: 500/600-level courses in EE including the above core requirement and at least three courses forming an area of emphasis (24 units); 400/500/600-courses in EE (6 units); Comprehensive Oral Exam on an area emphasis.

Tentative Program

Upon matriculation, graduate students must consult with the graduate advisor and a tentative program must be approved by the advisor by a few weeks into the first semester. The program must contain two core courses and exhibit an area of emphasis comprised of at least three related graduate courses (500 or 600 level). Students should obtain the MSEE Handbook, which covers the procedures and requirements, from the advisor or Electrical Engineering Department office.

Advancement to Candidacy

At least one semester before the graduating semester, students must advance to the candidacy. To apply for advancement to candidacy, students must satisfy the following requirements:

1. All deficiencies must have been completed with a GPA of at least 3.0.

2. Currently enrolled in a regular session.

3. Demonstration of competence in technical writing by passing an appropriate writing course such as ENGL 317, 417, 418, and 419, with a grade of "C" or better or by providing acceptable proof of technical writing ability to the graduate advisor. This requirement can be waived for thesis or project students upon recommendation of the graduate advisor.

4. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).

5. Completion of at least 9 units as a graduate student in residence while maintaining both an overall GPA and a major GPA of at least 3.0. Students are advised strongly to seek advancement before completing 15 units of the program.

Courses (EE)

LOWER DIVISION

200. Trends in Electrical Engineering (1)
(Lecture 1 hour) Letter grade only (A-F).

201. Digital Logic Design (4)
Prerequisite: MATH 117 (or equivalent).
Practical design of digital circuits. Basic topics in combinational and sequential switching circuits with applications to the design of digital devices.
(Lecture: Problems 4 hours)

202. Computer Methods in Engineering (3)
Prerequisites: CECS 174 and MATH 224.
Introduction to MATLAB and numerical methods with applications to electrical engineering. Programming in MATLAB. Introduction to SIMULINK and other MATLAB toolboxes.
(Lecture: 2 hours, laboratory 3 hours) Letter grade only (A-F). Not open for credit to students with credit in ENGR 202.

210. Electromagnetic Foundations in Electrical Engineering (3)
Prerequisites: MATH 123, PHYS 151, Corequisite: EE 210L.
(Lecture: Problems 3 hours) Letter grade only (A-F).

210L. Electromagnetic Foundations in Electrical Engineering Laboratory (1)
Laboratory experiments demonstrating behavior of resistive circuits, capacitors and inductors, transient RL and RC circuits, sinusoidal (phasor) RL, RC and RLC circuits, motor, generators, and transformers.
Letter grade only (A-F).

211. Electric and Electronic Circuits I (3)
Prerequisites: EE 210 or PHYS 152, MATH 224.
(Lecture: Problems 3 hours) Letter grade only (A-F).

211L. Electric Circuits Laboratory (1)
Corequisite: EE 210 or EE 211.
(Laboratory: 3 hours) Letter grade only (A-F).

235. Introduction to Nanotechnology: A Tour in NanoLand (3)
Prerequisite: Sophomore standing.
Overview of the fundamentals of nanoscience and nanotechnology, a wide range of applications, and issues that affect widespread use of these technologies based on ongoing research and discourse.

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An interdisciplinary course, taught by an interdisciplinary team of instructors. Students will observe nature and matter in submicron and nanometer scale.

Lecture-problems 3 hours) Letter grade only (A-F).

248. Security, Information Assurance, and Computers (3)
Computer security and information assurance as crucial challenges, consequences for individuals, economy, and society as a whole. Security threats and vulnerabilities in the use of computer systems. Tools and controls to reduce or block these threats. Law, privacy, and ethics.
(Lecture-problems 3 hours) Letter grade only (A-F).

UPPER DIVISION

301. Sequential Circuit Design (3)
Prerequisite: EE 201.
Synthesis of sequential circuits. Asynchronous sequential circuits, synchronous state machines, finite state machine design, sequential circuit design using programmable logic devices.
(Lecture-problems 3 hours) Letter grade only (A-F).

301L. Sequential Circuit Design Laboratory (1)
Prerequisite or Corequisite: EE 301.
Design, implementation, and verification of digital systems using medium scale integrated and large scale integrated circuits.
(Laboratory 3 hours) Letter grade only (A-F).

310. Signals and Systems (3)
Prerequisites: EE 202: EE 210 or 211; and MATH 308A or equivalent.
(Lecture-problems 3 hours) Letter grade only (A-F).

330. Analog Electronic Circuits (4)
Prerequisite: EE 211.
Analog and linear circuits, bipolar transistor, field effect transistor (MOSFET and JFET), and CMOS circuits. Operational amplifier circuits, applications. Digital electronic circuits. Laboratory includes transistor and operational amplifier circuit design and CAD tools.
(Lecture-problems 3 hours, laboratory 3 hours) Letter grade only (A-F).

330L. Analog Electronics Laboratory I (1)
Prerequisite or Corequisite: EE 330.
Transistor and operational amplifier circuit design laboratory.
(Lab 3 hrs) Letter grade only (A-F).

332. Digital Electronic Circuits (3)
Prerequisites: EE 201, 211.
(Lecture-problems 3 hrs) Letter grade only (A-F).

346. Microprocessor Principles and Applications (3)
Prerequisites: CECS 174, EE 201.
Study of microprocessor and microcomputer elements for applications of these devices to practical problems. Assembly language programming. Design of microprocessor based systems using 80X86 architecture.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

347. Microprocessor Based System Design (3)
Prerequisite: EE 346.
Design and construction of a microprocessor based system. Interfacing and control of external devices.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

350. Energy Conversion Principles (3)
Prerequisites: EE 211 and 211L, or consent of instructor.
Electrical/mechanical energy conversion. Power transformers, DC, synchronous, and induction machines. Laboratory experiments on power electronics and rotating machinery.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

370. Control Systems (3)
Prerequisite: EE 310.
Control systems analysis; block diagrams, signal flow graphs, stability criteria, root locus, frequency domain analysis. Examples of classical control system design.
(Lecture-problems 3 hours) Letter grade only (A-F).

370L. Control Systems Laboratory (1)
Prerequisite: EE 370.
Experiments which reinforce concepts learned in EE 370. Digital simulation modeling, analysis, and design. Real-time applications.
(Laboratory 3 hours) Letter grade only (A-F).

380. Probability, Statistics, and Stochastic Modeling (3)
Prerequisites: MATH 122, CECS 174.
Probability with an emphasis on computer modeling of probabilistic systems. Topics include discrete and continuous random variables, moments, correlation, covariance, Markov processes and Markov chains, numerical solutions of differential equations with MC simulations.
(Lecture 2 hrs – laboratory 3 hrs) Letter grade only (A-F).

382. Communication Systems I (3)
Prerequisite: EE 310.
Review of Fourier series and transforms. Introduction to waveforms, active, and digital filters. Basic elements of probability theory. Statistics, concept of white noise, AM, DSB, SSB and vestigial modulation, narrowband and wideband F.M.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

386. Digital Signal Processing (3)
Prerequisites: EE 310 or CECS 285 and EE 202 or CECS 311 and EE 202.
Introduction to discrete-time signals and systems. z-transform, digital filters, system design, and comparison to the analog counterparts. Multimodal laboratory experiments for discrete-time signals and systems in time and frequency domain, and analysis of digital sound/music with MATLAB.
Not open to credit with EE 485. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

400D. Electrical Engineering Design Seminar and Project (2)
Prerequisites: EE 547, 570, and 382; or consent of instructor.
Design/development. Process and issues. Simple design examples. Constraints imposed by factors such as performance, economics, reliability, safety, aesthetics, packaging, codes, standards and practices. Ethics and social and environmental impact. Case studies, individual and group projects. Oral presentation required.
(Lecture-problems 1 hour, laboratory 3 hours) Letter grade only (A-F).
402. Engineering Modeling and Simulation (3)
Prerequisite: EE 380.

403. Systems Engineering (3)
Prerequisites: ENGR 205 or MATH 122 and EE 202, or graduate standing.
Modeling and analysis, and design of deterministic and stochastic systems. The building blocks of Systems Engineering models ranging from network models with special structures, to unstructured linear and nonlinear optimization. Letter grade only (A-F) (Lecture-problems 3 hours)

405. Special Topics in Electrical Engineering (3)
Prerequisite: Senior standing in electrical engineering or consent of instructor. Selected topics from recent advances in electrical engineering. Course content will vary from year to year and may be repeated once for credit with consent of department undergraduate advisor. (Lecture problems 3 hours) Letter grade only (A-F).

406. Medical Instrumentation and Measurements (3)
Prerequisite: EE 330 or consent of instructor or graduate standing. Design and analysis of medical instruments, electronic amplifiers for measurement of physiological signals. Letter grade only (A-F). (Lecture-problems 3 hours)

406L. Biomedical Engineering Laboratory (1)
Prerequisite or corequisite: EE 406L. Laboratory study of medical instrumentation, transducers and computer data processing. (Laboratory 3 hours) Letter grade only (A-F).

407. Applications of Computers in Medicine (3)
Prerequisite: EE 346 or consent of instructor or graduate standing. Principles of analysis and design of computers and data collection equipment for real-time on-line medical systems. (Lecture problems 3 hours) Letter grade only (A-F).

410. Analog Filter Design (3)
Prerequisite: EE 310 or graduate standing. Theory and design of active filters using operational amplifiers. Emphasis is placed on low-pass filters. (Lecture problems 3 hours) Letter grade only (A-F).

411. Continuous- and Discrete-Time Linear Systems (3)

412. Fractals in Engineering (3)
Prerequisite: EE 310 or graduate standing. Application of fractal geometry to system theory. Study of system dynamics leading to complex behaviors and chaos. Scaling laws, sensitivity to initial conditions, strange attractors, and If noise will also be discussed. (Lecture problems 3 hours) Letter grade only (A-F).

420. Solid State Electronic Devices (3)
Prerequisite: PHYS 254 or graduate standing. Semiconductor crystal structure and growth, Carrier modeling, drift and diffusion currents, P-N junctions, diodes, solar cells and light-emitting diodes (LED), Bipolar junction transistor (BJT) biasing, linear and switched operation. Metal oxide semiconductor field effect transistor (MOSFET) operation. Solar cells, photovoltaics, and lasers. Not open for credit to students with credit in EE 320. (Lecture-problems 3 hours) Letter grade only (A-F).

428. Speech Signal Processing (3)
Prerequisite or Corequisite: EE 486 or consent of instructor. Principles and engineering applications of speech signal processing, Speech synthesis, recognition, encoding, and compression. Applications of neural networks. Additional projects required for EE 528. (Lecture-problems 3 hours) Letter grade only (A-F).

430. Analog Electronic Circuits II (3)

430L. Analog Electronics Laboratory II (1)
Corequisite: EE 430. Advanced transistor, operational amplifier, and linear integrated circuits and systems design laboratory. Not open for credit to students with credit in EE 433L. (Laboratory 3 hours) Letter grade only (A-F).

434. Mixed-Signal IC Design (3)
Prerequisites: EE 201 and EE 330 or consent of instructor. CMOS fabrication. Component layout. MOSFET modeling. Mixed-signal devices such as D/A and A/D converters and phase-locked loops. Substrate Noise coupling. System-on-chip considerations. Design using CAD tools. Additional projects required for EE 534. (Lecture-problems 2 hours, Laboratory 3 hours) Letter grade only (A-F).

435/450. Microelectronics (3)
Prerequisites: EE 201, 330. Theory of microelectronics integrated circuit design, IC fabrication technology, device characterization, modeling, digital and analog simulation tools, physical layout tools, digital standard cell library design, IC digital system design, I/O pad design, full chip simulation and physical designs. Additional projects required for EE 550A. (Lecture problems 3 hours) Letter grade only (A-F).

435L. Microelectronics Laboratory (1)
Corequisite: EE 435. Laboratory evaluation of IC process steps. Wafer probe, packaging, and final test. Empirical device model formulation from test data. Not open for credit to students with credit in EE 420L. (Laboratory 3 hours) Letter grade only (A-F).

435/450. Microfabrication and Nanotechnology (3)
Prerequisites: EE 330 and PHYS 254, or MAE 300. Techniques and the technology of miniaturization of electrical, mechanical, optical, and opto-electronic devices in sizes from millimeters to nanometers. Design examples and sensors, microprocessors, cantilevers, and microsensors, process fabrication. Additional projects required for EE 530. (Lecture-problems 3 hours) Letter grade only (A-F).

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437. Multidisciplinary Nano-Science and Engineering (3)
Prerequisite: Consent of instructor or graduate standing.
Introduces four key areas: nanoscience properties of materials; nanotechnology in biology and nature; observation, measurement, analysis; applications. Importance of understanding and engineering nanoscale structures, materials, and processes for the 21st Century. Use of scanning electron microscope and atomic force microscope.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

446. Advanced Microprocessors and Embedded Controllers I (3)
Prerequisite: EE 347 or consent of the instructor or graduate standing.
Advanced microprocessors such as Pentium series, RISC, and CISC. Hardware features and new instructions. Support for virtual memory, paging, privilege levels, multitasking and internal cache. Floating point coprocessors. Embedded controllers, on-chip resources and applications.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

447. Design of Electronic Systems (3)
Prerequisites: EE 301 or 435 and EE 346 and EE 400D and EE 430, or graduate standing.
Extensive laboratory projects. Design of analog and digital systems. Computer aided design including, for example, hardware description language (HDL) and SPICE.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

448./548. Wireless and Mobile Networks and Security in Wireless Networks (3)
Prerequisites: EE 482 or equivalent.
Wireless and Mobile Ad-hoc Networks and Security. Ad hoc and geographic routing, resource discovery, MAC, IP mobility, mobility modeling, wired wireless networks, security aspects. Lab Projects will include use of tools such as OPNET, Ethernet, Sniffer, Scanner, IDS, etc.
Advanced project required for EE 548. (Lecture-problems 3 hours) Letter grade only (A-F).

449./549. Topics in Multimedia and Hypermedia (3)
Prerequisite: EE 410 or equivalent.
Theoretical and practical issues in designing multimedia systems, design and implementation of interactive multimedia and hypermedia applications including interactive television (e.g., video-on-demand, e-learning), hypermedia systems (e.g., the World Wide Web), and video conferencing and groupware. Emphasis placed on current design issues and research topics.
Extra project for graduate students. (Lecture-problems 3 hours) Letter grade only (A-F).

450. Electronic Control of Motors (3)
Prerequisites: EE 301 and EE 370, or graduate standing.
Characteristics of semiconductor power switches. Modeling and application of control theory to various types of motors. Bidirectional and four quadrant converter topologies for motor control. Selection of drives to control AC and DC motors. Uninterruptable power supplies and adjustable speed drives.
(Lecture-problems 3 hours) Letter grade only (A-F).

452. Computer Applications in Power Systems (3)
Prerequisite: EE 390 or consent of instructor or graduate standing.
Modeling of power generation, transmission, and distribution systems, load flow analyses, short-circuit studies, voltage drop and power loss calculations, transient stability and optimal power flow analyses. Application of specialized computer software for power system design and analyses.
(Lecture-problems 3 hours) Letter grade only (A-F).

453./553. Protection of Power Systems (3)
Prerequisites: EE 310, 350.
Protective relays, instrument transformers, low-voltage and high-voltage circuit breakers, protection of generators and motors, transformer protection and transmission line protection. Relay coordination and commercial power systems. Application of computer programs for protective device coordination. Additional projects required for EE 553.
(Lecture-problems 3 hours) Letter grade only (A-F).

455./555. Space Electric Power Systems (3)
Prerequisites: EE 330, 350.
A comprehensive treatment of characteristics and requirements from spacecraft power systems, power sources, power conversion and control. Energy storage, electrical equipment, power converters and loads, power management. Future space missions and technological needs. Additional projects required for EE 555.
(Lecture-problems 3 hours) Letter grade only (A-F).

458. Design of Power System Components (3)
Prerequisites: EE 330 and EE 400D (or either EE 450 or EE 452 or EE 453), or graduate standing.
Design of electrical, electronic and electromechanical components required for power conversion, control, transmission, distribution, protection and measurements in terrestrial and space electric power systems.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

460. Electromagnetic Fields (3)
Prerequisite: EE 310 or graduate standing.
Electric and magnetic field theory including propagation of plane waves in lossless and dissipative media. Maxwell's equations. Transmission lines.
(Lecture-problems 3 hours) Letter grade only (A-F).

462. Electromagnetics and Applications to Wireless Systems (3)
Prerequisite: EE 310 or graduate standing.
Electromagnetic field theory including transmission lines, vector fields, electromagnetics and magnetostatics. Maxwell's equations and plane wave propagation. Waveguides and microstrip-RF circuit principles and devices. Radiation and antenna design. Wireless communication systems including satellite and cell-phone technologies.
Letter grade only (A-F). Not open for credit to students with credit in EE 460 or 464. (Lecture-problems 2 hours, laboratory 3 hours)

464. Electromagnetics and Applications to Electro-Optics (3)
Prerequisite: EE 310 or graduate standing.
Electromagnetic field theory including transmission lines, vector fields, electromagnetics and magnetostatics. Maxwell's equations and plane wave propagation. Electromagnetic formulation of geometric and Fourier optics. Semiconductor and gas laser applications to fiber-optic communication systems and electro-optic devices.
Not open for credit to students who have credit in EE 460 or 462. (Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

470. Digital Control (3)
Prerequisites: EE 370L and EE 386, or graduate standing.
Analysis and synthesis of digital control systems. General application of both the Z-transform and the state-space approach for discrete system design.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).
471. Design of Control Systems (3)
Prerequisite: EE 400D or graduate standing. Corequisite: EE 470.
Design of compensators using root-locus and Bode-plot methods.
Design of state-space control systems and observers. Computer-aided design.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

474/574. Robot Dynamics and Control (3)
Prerequisite: EE 370.
Basic methodology for analysis and design of robotic manipulators.
Classification of robots, homogeneous transformations, kinematics, dynamics, trajectory planning and control of robots. Application of robots in flexible manufacturing.
Additional projects required for EE 574. (Lecture-problems 3 hours)
Letter grade only (A-F).

476/576. Neural Networks and Fuzzy Logic (3)
Prerequisite or Corequisite: EE 486 or consent of instructor.
Principles and application of artificial neural networks and fuzzy logic.
Mechanisms of supervised and unsupervised neural networks. Fuzzy control systems. Applications in signal processing, communications, control, and other areas.
Additional projects required for EE 576. Not open for credit to students with credit in EE 589/689. (Lecture-problems 3 hours) Letter grade only (A-F).

481/581. Satellite Communication Systems (3)
Prerequisite: EE 482.
Basic orbital mechanics, link analysis, multiple access architectures and protocols, TDMA, TDMA, and CDMA systems. Synchronization techniques, modulation and coding techniques. Security and spread spectrum requirements. System design.
Additional projects required for EE 581. (Lecture-problems 3 hours)
Letter grade only (A-F).

482. Communication Systems II (3)
Prerequisite: EE 382 or graduate standing.
Information sources and communication systems. Orthogonal series representation of signals, pulse and digital modulation techniques, band-pass digital communication systems, special topics in communications.
(Lecture-problems 3 hours) Letter grade only (A-F).

483. Digital Image Processing (3)
Prerequisite: MATH 370A or graduate standing.
(Lecture-problems 3 hours) Letter grade only (A-F).

486. Digital Signal Processing for Multimedia Communications (3)
Prerequisite: EE 386 or graduate standing.
Discrete-time signals and systems, discrete Fourier transform, fast Fourier transform, spectral estimation, interpolation and decimation, filter design and structures and applications to multimedia communications. Laboratory projects for image processing, FFT receiver, signal detection, digital phase-locked loop.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

488. Communication System Design (3)
Prerequisite/Corequisite: EE 400D, EE 430, EE 430L, and EE 492, or graduate standing.
Design of Communication systems/subsystems and their implementation in software and hardware. Design of Copeland Senior Project in the area of Communication systems.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

489. Digital Signal Processing Design (3) S
Prerequisite: EE 400D or graduate standing. Prerequisites/ Corequisite: EE 486 or consent of instructor.
Design, implementation, and real-time testing of projects such as FIR filters, IIR filters, tone generator, 32-bit addition and multiplication, FFT spectrum analyzer. All projects are simulated in fixed-point arithmetic with MATLAB and C and TMS320C54 assembly code in bit-exact.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

490. Special Problems (1-3)
Prerequisites: Minimum G.P.A. of 2.5 and consent of instructor.
Assigned topics in technical literature or laboratory projects and reports.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

492. Instrumentation and Data Acquisition for Engineering Applications (3)
Prerequisite: EE 210 and 210L, or 211 and 211L, (CECS 174 or ECE 210), and EE 370 or ECE 370, or consent of instructor or graduate standing.
Concepts of instrumentation, data acquisition and computer-based control of industrial systems. Topics include signal conditioning, software and hardware for data acquisition and computer-based control, graphical programming and virtual instrumentation.
(Lecture-problems 2, laboratory 3 hours) Letter grade only (A-F).

GRADUATE LEVEL

502/402. Engineering Modeling and Simulation (3)
Prerequisite: EE 360.
Additional projects required for EE 502. (Lecture-problems 3 hours)
Letter grade only (A-F).

503. Advanced Systems Engineering (3)
Prerequisite: EE 411 or equivalent mathematical maturity.
Modeling and analysis, and design of deterministic and stochastic systems. The building blocks of engineering optimization models ranging from network models with special structure, to unstructured linear and nonlinear optimization.
Letter grade only (A-F). (Lecture-problems 3 hours)

504. Introduction to Entrepreneurship for Engineers (3)
Prerequisite: Graduate standing in engineering or computer science.
Core business concepts and issues, essence of leadership, understanding of finance, marketing, sales, and management issues from practical entrepreneurial perspective through classroom discussion, guest speakers, seminars, case study, and creation of business plan based on students specific area of interest.
(Lecture-problems 2 hours) Letter grade only (A-F).

505. Advanced Engineering Mathematics for Electrical Engineers (3)
Prerequisites: Consent of instructor.
Boundary-value problems and generalized Fourier (or eigenfunction) expansions. Review of Fourier series, Fourier transforms (FT, FFT and STFT), wavelet transform and its computer implementation, Z-transform, Hilbert transform. Solutions of partial differential equations using methods of separation of variables, etc.
(Lecture-problems 3 hours) Letter grade only (A-F).
506/606, Theory and Practice of Biomedical Instrumentation (3)
Prerequisites: Graduate standing in engineering or natural sciences and either EE 406 or consent of instructor.
Advanced design concepts and practical utilization of biomedical instrumentation. Transduction of physiological parameters.
Theory and practice.
Master's students register in EE 506. Ph.D. students register in EE 606. Additional projects required for EE 606. (Lecture-problems 3 hours) Letter grade only (A-F).

507/607. Advanced Biomedical Systems (3)
Prerequisites: Graduate standing in engineering or natural sciences and either EE 406 or consent of instructor.
Novel trends in biotechnology, design and organization of modern hospital systems, and utilization of advanced technologies. Modeling and simulation of physiological and medical systems.
Master's students register in EE 507. Ph.D. students register in EE 606. Additional projects required for EE 607. (Lecture-problems 3 hours) Letter grade only (A-F).

508. Probability Theory and Random Processes (3)
Prerequisite: EE 380.
Probability spaces, random vectors and processes, convergence concepts, stationarity and ergodic properties, second order moments and linear systems, correlation and spectral representations. Some applications of random processes.
(Lecture-problems 3 hours) Letter grade only (A-F).

509. Network Theory (3)
Prerequisites: EE 386, 410 or 430.
(Lecture-problems 3 hours) Letter grade only (A-F).

510. Circuit Synthesis (3)
Corequisite: EE 509.
Synthesis of passive lumped networks, cascade synthesis (with filter synthesis), realization of commensurate distributed networks, discrete passive networks.
(Lecture-problems 3 hours) Letter grade only (A-F).

511. Linear Systems Analysis (3)
Prerequisite: EE 411 or 470 or equivalent mathematical maturity.
(Lecture-problems 3 hours) Letter grade only (A-F).

514. Advanced Circuit Synthesis and Design (3)
Prerequisite: EE 510.
Scattering synthesis in (s-z) domains, wave digital filters. Lossless bounded real two-pole and orthogonal digital filters with an emphasis on structures suitable for VLSI implementation.
(Lecture-problems 3 hours) Letter grade only (A-F).

527. Digital Filter Design and Audio Processing (3)
Prerequisite: EE 406 or consent of instructor.
Frequency and time domain analysis using FFT, FIR, and IIR filter design and implementation techniques. Principles of digital audio processing, compression/decompression. Applications of audio coding standards, such as MPEG audio and G.729.
Not open for credit to students with credit in EE 513. (Lecture-problems 3 hours) Letter grade only (A-F).

528/428. Speech Signal Processing (3)
Prerequisite or Coerequisite: EE 486 or consent of instructor.

531. CMOS Electronics (3)
Prerequisite: EE 430.
Electronic design automation CAD tools, silicon compilers, CMOS design, BICMOS design (technologies, modeling, device characterization and simulation), CMOS and BICMOS subcircuits, amplifiers, op-amps and systems.
(Lecture-problems 3 hours) Letter grade only (A-F).

533/633. Quantum and Optical Electronics (3)
Prerequisites: EE 460 or 462 or 464 or consent of instructor.
Modern quantum and optical concepts of relevance to lasers, fiber optics, optical technology and semiconductor solid state electronics. Basic theory and applications to state-of-the-art electronics engineering.
Master's students register in EE 533; Ph.D. students register in EE 633. Additional projects required for Ph.D. students. (Lecture-problems 3 hours) Letter grade only (A-F).

534/434. Mixed-Signal IC Design (3)
Prerequisites: EE 261 and EE 330 or consent of instructor.
Additional projects required for EE 534. (Lecture-problems 2 hours, Laboratory 3 hours) Letter grade only (A-F).

535. VLSI Design (3)
Prerequisite: EE 430.
Techniques for designing Very Large Scale Integrated (VLSI) circuits using n-channel metal oxide semiconductors (n-MOS).
Not open for credit to students with credit in EE 520. (Lecture-problems 3 hours) Letter grade only (A-F).

535A/435. Microelectronics (3)
Prerequisites: EE 261 and 330 or consent of instructor.
Theory of microelectronics integrated circuit design. IC fabrication technology, device characterization, modeling, digital and analog simulation tools, physical layout tools, digital standard cell library design, IC design system design, I/O pad design, full chip simulation and physical designs.
Additional projects required for EE535A.
Letter grade only (A-F). (Lecture-problems 3 hours).

536/436. Microfabrication and Nanotechnology (3)
Prerequisites: EE 330, EE 320 or PHYS 254, or MAE 300.
Techniques and technology of miniaturization of electrical, mechanical, optical, and optical-electronic devices in sizes from millimeters to nanometers are presented. Design examples of sensors, microtense, cantilevers, and micromotors are covered and process fabrication using latest technology demonstrated.
Additional projects required for EE 536. (Lecture-problems 3 hours) Letter grade only (A-F).

540. Advanced Digital System and Computer Architecture (3)
Prerequisite: EE 446 or equivalent. Strongly recommended: EE 546.
High level computer architectures including studies of network processors, security processing, embedded computer systems, design and implementation approaches including ASICs, FPGAs, and networks on chip concepts. Simulation and design tools. Project required.
(Lecture-problems 3 hours) Letter grade only (A-F).
545. Computer Communication Networks (3)
Prerequisite: Consent of Instructor.
Design and analysis of computer communications networks including their topologies, architectures, protocols, and standards. LAN, WAN, wireless, and mobile networks. Access methods, Ethernet, ATM, bridges, routers, gateways, and intelligent hubs. TCP/IP and other networking protocols. Load balancing, traffic monitoring, use of simulation tools.
(Lecture-problems-computer projects 3 hours) Letter grade only (A-F).

546. Advanced Microprocessors and Embedded Controllers II (3)
Prerequisite: EE 440 or consent of the instructor.
Advanced concepts for embedded controllers, mobile processors, network processors, embedded Internet, and embedded Internet devices. Parallelism, multithreading, pipelining, coherence protocols, interconnection networks, clustering. Simulation and analysis tools. Project required.
(Lecture-problems 3 hours) Letter grade only (A-F).

548.445. Wireless and Mobile Networks and Security in Wireless Networks (3)
Prerequisite: EE 452 or equivalent.
Wireless and Mobile Ad-hoc Networks and Security. Ad-hoc and geographic routing, resource discovery, MAC, IP mobility, mobility modeling, wired- wireless networks, security aspects. Large projects will include use of tools such as OPNET, Ethereal, Sniffer, Snorter, IDS, etc.
Advanced project required for EE 548. (Lecture-problems 3 hours) Letter grade only (A-F).

549.449. Topics in Multimedia and Hypermedia (3)
Prerequisite: EE 440 or equivalent.
Theoretical and practical issues in designing multimedia systems, design and implementation of interactive multimedia and hypermedia applications including interactive television (e.g., video-on-demand, on-line learning), hypermedia systems (e.g., the World Wide Web), and video conferencing and groupware. Emphasis placed on current design issues and research topics.
Extra project for graduate students. (Lecture-problems 3 hours) Letter grade only (A-F).

550. Power Electronics and Applications (3)
Prerequisites: EE 359 and 430.
Power converters: rectifiers, inverters, choppers and cycloconverters. PWM and PFM techniques. Harmonics and filters. Magnetics. Applications in motor controls in industrial systems, energy conversion, HVDC transmission, aircraft and spacecraft power systems.
(Lecture-problems 3 hours) Letter grade only (A-F).

551. Theory and Applications of DC/DC Converters (3)
Prerequisite: EE 550 or consent of instructor.
Modelling, analysis, design and application of DC/DC switch mode converters.
(Lec-troblems 3 hrs) Letter grade only (A-F).

552. Electric Drives and Applications (3)
Prerequisites: EE 376, 452 or consent of instructor.
Characteristics and applications of small electric machines including stepper motors, brushless DC motors, permanent magnet synchronous motors and switched reluctance motors. Motor performance, control and drive circuit configurations.
(Lecture-problems 3 hours) Letter grade only (A-F).

553.453. Protection of Power Systems (3)
Prerequisites: EE 310, 300.
Protective relays, instrument transformers, low-voltage and high-voltage circuit breakers, protection of generators and motors, transformer protection and transmission line protection. Relay coordination and commercial power systems. Application of computer programs for protective device coordination. Additional projects required for EE 553.
(Lecture-problems 3 hours) Letter grade only (A-F).

555.455. Space Electric Power Systems (3)
Prerequisites: EE 330, 350.
A comprehensive treatment of characteristics of and requirements from spacecraft power systems. Power sources, power conversion and control. Energy storage, electrical equipment, power converters and loads, power management. Future space missions and technological needs.
Additional projects required for EE 555. (Lecture-problems 3 hours) Letter grade only (A-F).

574.474. Robot Dynamics and Control (3)
Prerequisite: EE 370.
Additional projects required for EE 574. (Lecture-problems 3 hours) Letter grade only (A-F).

575.675. Non-Linear Control Systems (3)
Prerequisite: EE 511 or consent of instructor.
Methodologies and results dealing with stability and robust stabilization of non-linear systems applied to robotics, aerospace, artificial neural networks, etc. Phase plane analysis, limit cycles, Lyapunov stability theory and its extension. Positive real transfer matrix and passivity, feedback linearization and stabilization, tracking, robust control.
Ph.D. students register in EE 675. Additional projects for EE 675 students. (Lecture-problems 3 hours) Not open for credit to students with credit in EE 775. Letter grade only (A-F).

576.476. Neural Networks and Fuzzy Logic (3)
Prerequisite or Corequisite: EE 496 or consent of instructor.
Additional projects required for EE 576. Not open for credit to students with credit in EE 680/689. (Lecture-problems 3 hours) Letter grade only (A-F).

580. Statistical Communication Theory (3)
Prerequisites: EE 482, 505 and 508 or consent of instructor.
(Lecture-problems 3 hours) Letter grade only (A-F).

581.481. Satellite Communication Systems (3)
Prerequisite: EE 482.
Basic orbital mechanics, line analysis, multiple access architectures and protocols, FDMA, TDMA, and CDMA systems. Synchronization techniques, modulation and coding techniques. Security and spread spectrum requirements. System design.
Additional projects required for EE 581. (Lecture-problems 3 hours) Letter grade only (A-F).

582. Spread Spectrum Communication Systems (3)
Prerequisite: EE 580 or consent of instructor.
Spread spectrum (SS) techniques. Direct sequence systems, frequency hopping systems. Generation and properties of pseudo random sequences. Electronic jamming and interference. Processing gain, carrier synchronization, code acquisition and tracking, information modulation and coding. Applications include ranging, CDMA, etc.
(Lecture-problems 3 hours) Letter grade only (A-F).
583/585. Digital Image Processing (3)
Prerequisites: EE 505 or consent of instructor.
Acquiring images, Correcting imaging defects, Image enhancement, Segmentation and thresholding, Processing binary images, Tomography, Three-dimensional imaging, Some image data compression techniques.
Master’s students register in EE 583; Ph.D. students register in EE 683. Additional projects required for EE 683. (Lecture-problems 3 hours) Letter grade only (A-F).

584. Information Theory and Coding (3)
Prerequisites: EE 482 and 508.
Information measures, source coding, Shannon’s first theorem, Mutual information and channel capacity, Shannon’s second theorem, Coding techniques for reliable information transmission over noisy channels.
(Lecture-problems 3 hours) Letter grade only (A-F).

585/585. Advanced Digital Signal Processing (3)
Prerequisite: EE 486 or consent of the instructor.
Advanced topics in digital signal processing and applications including adaptive filters, spectral estimation and multimedia standards: JPEG, MPEG. State space description of linear discrete time systems.
Master’s students register in EE 585; Ph.D. students register in EE 685. Additional projects for EE 685. (Lecture-problems 3 hours) Letter grade only (A-F).

586. Real-Time Digital Signal Processing (3)
Prerequisite: EE 486, EE or CECS 449, or consent of instructor.
Digital signal processors architecture and language, Real-time DSP considerations and limitations, Digital filter and signal processing system implementations.
(Lecture-problems 3 hours) Letter grade only (A-F).

590. Special Topics in Electrical Engineering (3)
Prerequisites: Graduate standing in electrical engineering and consent of instructor.
Selected topics from recent advances in electrical engineering. Course content will vary from year to year. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units. (Lecture-problems 3 hours) Letter grade only (A-F).

591. Adaptive Systems (3)
Prerequisite: EE 508.
Adaptive systems and their applications to communication, control, and signal processing systems.
(Lecture – problems 3 hours) Letter grade only (A-F).

600. Graduate Seminar and Presentation (1)
Prerequisites: Graduate standing and advancement to candidacy. Lectures by faculty and guests on advanced topics. A report and presentation are required. (Seminar 1 hour) Letter grade only (A-F).

606/506. Theory and Practice of Biomedical Instrumentation (3)
Prerequisites: Graduate standing in engineering or natural sciences and either EE 400 or consent of instructor. Advanced design concepts and practical utilization of biomedical instrumentation. Transduction of physiological parameters. Theory and practice.
Master’s students register in EE 506; Ph.D. students register in EE 606. Additional projects required for EE 606. (Lecture-problems 3 hours) Letter grade only (A-F).

607/507. Advanced Biomedical Systems (3)
Prerequisites: Graduate standing in engineering or natural sciences and either EE 400 or consent of instructor. Novel trends in biotechnology, design and organization of modern hospital systems and utilization of advanced technologies. Modeling an simulation of physiological and medical systems.
Master’s students register in EE 507; Ph.D. students register in EE 607. Additional projects required for EE 607. (Lecture-problems 3 hours) Letter grade only (A-F).

633/533. Quantum and Optical Electronics (3)
Prerequisites: EE 460 or 462 or 464 or consent of instructor.
Modern quantum and optical concepts of relevance to lasers, fiber optics, optical technology and semiconductors. Solid state electronics: Basic theory and applications to state-of-the-art electronics engineering.
Master’s students register in EE 533; Ph.D. students register in EE 633. Additional projects required for Ph.D. students. (Lecture-problems 3 hours) Letter grade only (A-F).

675/575. Non-Linear Control Systems (3)
Prerequisite: EE 511 or consent of instructor.
Mathematical models and results dealing with stability and robust stabilization of non-linear systems applied to robotics, aerospace, biological neural networks, etc. Phase plane analysis, limit cycles, Lyapunov stability theory and extension. Positive real transfer matrix and passivity, feedback linearization and stabilization, tracking, robust control.
(Ph.D. students register in EE 675) Additional projects for EE 675 students. (Lecture-problems 3 hours) Letter grade only (A-F).

683/583. Digital Image Processing (3)
Prerequisite: EE 505 or consent of instructor.
Acquiring images, Correcting imaging defects, Image enhancement, Segmentation and thresholding, Processing binary images, Tomography, Three-dimensional imaging, Some image data compression techniques.
Master’s students register in EE 583; Ph.D. students register in EE 683. Additional projects required for EE 683. (Lecture-problems 3 hours) Letter grade only (A-F).

685/585. Advanced Digital Signal Processing (3)
Prerequisite: EE 486 or consent of the instructor.
Advanced topics in digital signal processing and applications including adaptive filters, spectral estimation and multimedia standards: JPEG, MPEG. State space description of linear discrete time systems.
Master’s students register in EE 585; Ph.D. students register in EE 685. Additional projects for EE 685. (Lecture-problems 3 hours) Letter grade only (A-F).

697. Directed Research (3)
Prerequisite: Graduate Standing. Advancement to Candidacy is strongly recommended.
Theoretical and experimental problems in electrical engineering requiring intensive analysis culminating in a substantial report. Letter grade only (A-F).

698. Thesis or Industrial Project (3-6)
Prerequisite: Advancement to Candidacy. Planning, preparation and completion of a thesis (total 6 units), or Industrial project (3 units), in electrical engineering. Letter grade only (A-F).
EMERGENCY MANAGEMENT
College of Health and Human Services
Department of Professional Studies

Acting Chair: James E. Koval
Department Office: Engineering Technology (ET) Room 236
Telephone / FAX: (562) 985-8815 / (562) 985-8815
Website: http://www.csulb.edu/prof
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Faculty:
Veronica Acosta-Deprez (Health Science), Robert Filis (Health Science), Sotiria Gouta-Biale (Health Science), Peter Keyser (Professional Studies), James Koval (Family and Consumer Sciences), Ali Almin (Criminal Justice), Harvey Morley (Criminal Justice), Henry O’Lawrence (Professional Studies), Emerilda Paniagua (Civil Engineering), Dave Powell (Public Policy and Administration), Joanne M. Tortori-Luna (Educational Psychology, Administration, and Counseling)

Advisor: Peter G. Keyser
Distance Learning Administrator: James Koval
Administrative Assistant: Kathy Allan

Career Possibilities
Public Safety Administration • Emergency Management • Emergency Operation Specialist • Homeland Security Administrator • Local Preparedness Coordinator • Training/Citizen Corp Specialist • Emergency Planners • Area School Safety Coordinator • Outreach Specialist • Public Health Emergency Response Manager • Emergency Management Analyst • Emergency Logistics Manager • Environmental Emergency Officer • Community Disaster Recovery Manager • Emergency Services Specialist • Risk Specialist • Public Assistance Officer • Disaster Operations Coordinator • Recovery and Mitigation Specialist • Municipal Readiness Coordinator • Safety Coordinator • Emergency Program Manager. (Some of these, and other careers, require additional education or experience. For more information, visit www.careers.csulb.edu.)

Master of Science in Emergency Services Administration (code OCSTM501)

The Master of Science in Emergency Services Administration (EMER) is an interdisciplinary degree program developed by faculty experts from departments across campus. Faculty from on-campus departments such as Criminal Justice, Health Sciences, Public Policy and Administration, Civil Engineering, Family Studies, Professional Studies, Communication Studies, Educational Psychology, Geography, and Library Sciences, as well as nationally recognized expert practitioners in emergency services collaborate to deliver research and competency-based curriculum grounded in practice.

The EMER curriculum and all advising and student research presentations are designed exclusively for online delivery utilizing the most up-to-date instructional technologies available. The program is designed to provide students with the conceptual foundation, communication, managerial, and analytical skills required for designing, testing, and implementing an effective response to workplace and community emergencies. Such emergencies may involve the potential loss of human life and property due to fire, explosion, the release of hazardous chemicals, structural failures, natural calamities, and terrorist acts. The program has two major purposes: 1) to provide an understanding of the administration and management of emergency services with an emphasis on the roles and job expectations of public safety professionals and emergency managers, and 2) to prepare students for leadership roles in emergency and disaster administration by stressing independent research, communication, and writing skills, exposure to experts, and practical experiences of respected emergency services and disaster organizations.

Admission Criteria
1. Obtain admission to the graduate program by completing and forwarding the official CSULB graduate admissions forms and fees to the University and the Graduate Advisor, Professional Studies Department, CSULB. Each applicant for graduate standing shall have completed an appropriate baccalaureate degree from an accredited university.
2. Request that official transcripts from all colleges and universities attended be forwarded to the graduate advisor, Professional Studies Department, CSULB.
3. Have at least a 2.50 grade-point average in the last 60 semester units attempted.
4. Be accepted by the department and graduate advisor for admission to the program.

Advancement to Candidacy
1. Satisfaction of the general University requirements for advancement to candidacy, including successful completion of the Graduation Writing Assessment Requirement (GWAR).
2. Completion of all core courses;
3. Maintenance of a "B" average (3.0 GPA) in all work completed in graduate program;
4. Approval of Professional Studies Graduado Faculty and Director of Graduate Studies and Research, College of Health and Human Services.

Requirements
1. EMER 500, 502, 542, 545, 548, 631, 661, 671; GEDG 558; CRJU 520, 525
2. Completion of 42 units of approved graduate courses and a written comprehensive examination (EMER 697), or 43 units of approved graduate courses and a thesis (EMER 698) approved by the Department Graduate Committee. The Emergency Services Administration program consists of three parts. The first part is a 30-unit set of required core course work as indicated in (1) above. The second part is the elective area of specialization. Electives are selected in consultation with a faculty advisor. The third part is to complete the comprehensive exam or a thesis.

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454. Disaster Mental Health Issues in Emergency Management (3)
Theories and practical applications of emergency mental health and self-care for those responding to, or managing response to, widespread natural and human-induced disasters. Letter grade only (A-F).

548. Risk, Crisis, and Inter-Agency Communications (3)
Theory and practical applications of emergency communications for those responding to or managing response to widespread natural and human-induced disasters. Letter grade only (A-F).

631. International Emergency Administration Systems: Comparative Analysis (3)
Prerequisite: GECG 558
Comparative analysis of international emergency management systems and structures, implications of emerging threats and disasters in an increasingly interdependent world. Letter grade only (A-F).

650. Graduate Seminar (3)
Students will undertake literature reviews and/or research to explore emerging issues, trends and research in the field of emergency services administration. Letter grade only (A-F).

661. Emergency Management Leadership Across the Megacommunity (3)
Competencies of professional emergency management defined through the megacommunity. Models of strategic leadership in all phases of disaster management, with emphasis on preparing professional and community organizations and networks, across culturally and economically diverse constituencies, and for natural or human-made disasters. Letter grade only (A-F).

671. Strategic Planning and Integrative Practices in Emergency Services Administration (3)
Prerequisite: EMER 661
Capstone course focusing on all phases of disaster management of selected disaster case studies, a natural disaster and a human-made event, using existing research literature, Internet-based simulation software, and post incident evaluation techniques. Letter grade only (A-F).

690. Special Topics
Group investigation of selected topics. Topics will be announced in the Schedule of Classes. May be repeatable to a maximum of 6 units with different topics in the same semester. Letter grade only (A-F).

695. Independent Study (1-6)
For students who wish to focus their studies on a specific area of emergency services administration which coincides with a faculty member’s research or practical expertise. Letter grade only (A-F).

697. Directed Studies (3)
Prerequisites: Advancement to Candidacy
Research in an area of specialization under the direction of a faculty member. Letter grade only (A-F).

698. Thesis (4)
Prerequisites: Advancement to Candidacy
Planning, preparation, and completion of a thesis. Letter grade only (A-F).
DEAN: Forouzan Golshani
Assistant to the Dean: Vickie Mesina (562) 985-5123
College Office:
Phone Directory: (562) 985-5121
FAX: (562) 895-7906
Website: College of Engineering
Associate Dean for Research and Graduate Studies:
Mathez Amouzegar
Interim Associate Dean for Academic Programs:
Chen-Feng (Steve) Tsai
Special Assistant to the Dean for Outreach: Sandra J. Cyma
Assistant to the Associate Deans:
Kim Trudell (562) 985-8032
Development Director: Lupea S. "Jenn" Stewart
Administrative Services:
Dorsula "Dee Dee" Green, Manager (562) 985-1586
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Lily Gossage, Director (562) 985-1800
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Departments:
Chemical Engineering: Larry K. Jang, Chair (562) 985-7533
Civil Engineering and Construction Engineering Management:
Emelinda Parenteau, Acting Chair (562) 985-5118
Computer Engineering and Computer Science:
Kenneth James, Chair (562) 985-4205
Electrical Engineering:
Bahram Shahian, Chair (562) 985-5102
Mechanical and Aerospace Engineering:
Hamed Hoftiz, Chair (562) 985-1502

Introduction
The mission of the College of Engineering is to serve the State of California, the nation, and society at large, by graduating well-prepared professionals, who are provided with excellent education and training in the fundamentals of their discipline through a combination of theory and laboratory practice, and who are provided with the ability and skills to expand knowledge and transform complex ideas into working systems.

The College of Engineering offers four-year curricula leading to Bachelor of Science degrees in the disciplines of Engineering, Computer Science, and Engineering Technology, as well as, Master of Science degrees and PhD. The B.S. programs provide broad education and training for entry to the professions and for continuing academic work toward advanced degrees. Master of Science degrees are offered in Aerospace, Civil, Computer, Electrical and Mechanical Engineering, and in Computer Science. The Master of Science in Engineering is also offered in interdisciplinary areas. The Ph.D. in Engineering and Industrial Applied Mathematics is offered jointly with the Claremont Graduate University. Undergraduate programs provide opportunities to specialize in the areas of Aerospace, Biomedical, Chemical, Civil, Computer, Electrical, Industrial Management, Manufacturing, Materials and Mechanical. The Bachelor's programs in Engineering, Computer Science and Engineering Technology are accredited by the appropriate accreditation commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 - telephone: (410) 347-7700; website: www.abet.org.

The Aerospace, Chemical, Civil, Computer, Electrical and Mechanical Engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of ABET. The Computer, Electronics and Manufacturing Technology programs are accredited by the Technology Accreditation Commission (TAC) of ABET. (See detailed listing of the accredited programs on the next page.) Several certificate programs are also offered. Evening sections of most of the regular courses are offered to help the working students.

Engineering Facilities
The College of Engineering is housed in a complex of several adjacent buildings, including a modern six-story Engineering and Computer Science (ECS) building, providing state of the art, laboratories and offices for faculty. The building features advanced and comprehensive engineering, computer science, and technology facilities, totaling over 130,000 square feet of laboratory space.

Engineering Advisory and Development Councils
The College of Engineering has several Advisory and Development Councils (ADCs) serving the college, each of the departments, and the research and educational centers. These councils consist of outstanding engineers and executives from industry and government in Southern California. Their function is to form a liaison between the university and industry and to keep the administration and faculty informed of modern engineering developments, tools and practices. This close relationship helps to ensure that the curriculum is kept up-to-date. Furthermore, the ADCs advise on job placement opportunities before and after graduation.

Programs at a Glance
ABET Accreditation
The Bachelor of Science degrees followed by an asterisk (*) are accredited by EAC, CSAC or TAC of the Accreditation Board for Engineering and Technology (ABET) as appropriate.

Baccalaureate Degrees
B.S. in Aerospace Engineering*
B.S. in Chemical Engineering*
B.S. in Civil Engineering*
B.S. in Computer Engineering*
B.S. in Computer Engineering Technology*
B.S. in Computer Science*
B.S. in Construction Engineering Management
B.S. in Electrical Engineering*
B.S. in Electronics Engineering Technology*
B.S. in Engineering
  Option in Audio Engineering
  Option in Biomedical and Clinical Engineering
  Option in Industrial-Management Engineering
  Option in Materials Engineering
B.S. in Engineering Technology
Option in Environmental Technology
Option in Technology and Engineering Education
B.S. in Manufacturing Engineering Technology *
B.S. in Mechanical Engineering *

Minors
Minor in Computer Science
Minor in Computer Science Applications
Minor in Environmental Engineering
Minor in Web and Technology Literacy

Graduate Degrees
M.S. in Aerospace Engineering
M.S. in Civil Engineering
M.S. in Computer Science
  Option in Computer Engineering
  Option in Computer Science
M.S. in Electrical Engineering
M.S. in Engineering (Interdisciplinary)
M.S. in Mechanical Engineering
Ph.D. in Engineering and Industrial Applied Mathematics
  (jointly with The Claremont Graduate University)
  For detailed descriptions, see listings for Chemical Engineering, Civil Engineering, Computer Engineering and Computer Science, Electrical Engineering, Engineering Technology Programs, and Mechanical and Aerospace Engineering.
Students should submit applications early in August for the following Spring Semester and November for the following Fall semester.

Certificate Programs
Certificate in Heating, Ventilating and Air-Conditioning Engineering (MAE)
Certificate in Waste Engineering and Management (CECEM)
Certificate in Energy Conversion and Power Systems Engineering (MAE and EE)
Certificate for Industrial Plastics Processing and Design (MAE and CHE)
Certificate in Facilities Operations (CECEM)
Certificate in Safety Operations (CHES)
Certificate in Aerospace Manufacturing (MAE)
Certificate in Systems Engineering (COE)
Certificate in Web and Technology Literacy (CECS)

Mathematics, Engineering, Science and Achievement (MESA) Center
The MESA Center is a program that serves low income and educationally disadvantaged students at the pre-college and college levels. The program is funded by the State of California and also receives program donations from private industry. The MESA Center is comprised of two distinct programs with operations based in the College of Engineering, the MESA Schools Program (MSP) and the MESA Engineering Program (MEP). The MESA Schools Program (MSP) partners with middle and high schools in the Los Angeles basin area to prepare students to attend college. MSP provides academic support services to over eighteen hundred pre-colleges students with the primary objective of increasing future enrollment at the university level in the disciplines of mathematics, engineering and sciences. The MESA Engineering Program (MEP) provides non-remedial academic support services to matriculated college students. The major objectives of MEP are to support the recruitment, retention and graduation of a select campus student population. The MESA Engineering Advisory and Development Council (Meadic) includes a membership of industry representatives from local area businesses with an interest in promoting the educational experience of low income and underrepresented students.

Academic Standards
Preparation for Admission to the College of Engineering
The high school student planning to enter engineering, engineering technology, or computer science is advised to pursue a program with courses in biology, physics, chemistry, advanced algebra, and trigonometry. In addition, the general requirements for admission to the University must be satisfied. Deficiencies in one or more of the above areas may result in an extension of the time required to complete the program. Full-time students can complete any baccalaureate degree in engineering, engineering technology, or computer science in four years. The curricula are also designed to accommodate students transferring from other colleges or universities such as the community colleges. Full-time students who complete two years at a community college can complete the B.S. degree in two additional years. Transfer students should note and follow, where possible, the appropriate curriculum as outlined in later sections. None of the COE programs are impacted, thus only general admission requirements of the University apply and must be met.

General Academic Requirements
In addition to technical knowledge, skills and training, the College of Engineering values good communication skills. These skills are achieved through the General Education (GE) courses and are measured by the Graduation Writing Assessment Requirement (GWAR). Students are advised that while specific course requirements vary depending on the nature of the subject, most College of Engineering courses require not only detailed analysis, and competent design, but also clear and concise written and oral reports and presentations. In many classes these requirements constitute a portion of the student's grade.

ENGL 100 or equivalent is a prerequisite to upper division laboratory courses.

Admission to any one of the graduate degree programs in the College of Engineering normally requires a minimum GPA of 2.5 in the last 60 units taken.

A student must fulfill the Graduation Writing Assessment Requirement (GWAR) before qualifying for any degree.
Letter Grade Policy

A grade of "C" or better must be achieved in prerequisites for courses required of Engineering, Computer Science, and Engineering Technology majors. Required Foundation courses must be taken for a Letter Grade, not Credit/No Credit.

Concurrent and/or Summer Enrollment in Another College

Students who wish to take coursework in a community college or another college or university to meet curricular requirements while enrolled as an undergraduate in the College of Engineering must petition the appropriate department for prior approval to enroll in specific courses. This policy is for either concurrent enrollment or summer enrollment. University policy must also be complied with. (See "Concurrent Enrollment" and "Transfer of Undergraduate Credit" in this catalog.) Courses not receiving prior approval may not be accepted for credit by the department.

Dual Degree Program

Students wishing to combine an engineering degree with one in business, education, fine arts, humanities or the sciences may enter the Dual Degree Program. The College of Engineering at CSULB has agreements with other Colleges within the University and with other institutions which allow students to do this. After three years at the first institution, students transfer to CSULB as juniors to complete the two final years of engineering study. At the end of the first year at CSULB, students who have completed all of the requirements for their first degree are awarded those degrees by the appropriate College or institution. At the end of their fifth year, students who have completed all engineering requirements receive their engineering degrees. As an option, students may choose to complete both degrees simultaneously.

Course Availability

Full-time students without deficiencies in the College of Engineering programs can comfortably complete their degree requirements in four years, or in two years after completing two years at a community college. Most of the required courses are offered in multiple sections every semester. In addition, many required courses are also offered during Summer Sessions.

Requirements for the ABET Accredited Degree Programs

Students working for an ABET accredited degree will meet with an academic advisor in their department as early as possible to make themselves fully aware of the ABET requirements, which not only includes the General Education, as outlined above, but also in other areas, such as mathematics and science requirements. These requirements are subject to change, but current requirements for all programs are posted at www.abet.org.

Undergraduate Programs

Bachelor of Science in Engineering

Option in Audio Engineering
(code COE_BS02) (127 units)

This option is designed to train students for work in the audio engineering industry. The curriculum in the College of the Arts will show students in the program how the arts and entertainment industry uses modern technology in the recording, processing and creation of sound. The curriculum in the College of Engineering will teach students how to analyze and design the electronic and computer components used in the arts and entertainment industry.

As this option is not ABET accredited, students are urged to either take a second major in Computer Engineering (follow the Computer Engineering Track) or Electrical Engineering (follow the Electrical Engineering Track).

Requirements

Computer Engineering Track

Lower Division: BIOL 207, PHYS 151, MATH 122, 222, MUS 190, EE 210, 210L, CECS 174, 201, 228, 274.


Electrical Engineering Track

Lower Division: BIOL 207, PHYS 151, MATH 122, 123, 224, MUS 190, CECS 174, EE 201, 202, 210, 210L, 211, 211L.


Minor in Environmental Engineering
(code COE_UM01)

This interdisciplinary Minor in Environmental Engineering is designed for undergraduates from various engineering and science backgrounds who are interested in applying engineering approaches to environmental issues. Coursework in the minor focuses on engineering solutions to problems in preserving the quality of air, water, and soil by developing procedures and designing processes, consistent with current government regulation, to improve the environment and prevent pollution.

Requirements

A minimum of 6 units selected from the following core:

CHE 475 or C E 364; CHE 455. Additional courses to complete the 18-unit minor may be selected from: CHE 415, 445, 465, 485; C E 466; E T 409F, 476, 486.

Most of the courses in the minor require some background in engineering and/or chemistry. Upper division students majoring in Biology, Chemistry, Chemical Engineering, Civil Engineering, or Mechanical Engineering...
may have sufficient background to select from the above choices without needing additional prerequisites. Those majoring in other branches of science and engineering may need several additional courses in engineering and/or chemistry to meet prerequisite requirements of courses in this minor. All prerequisites to the courses in the minor must be completed with a grade of "C" or better.

Graduate Programs

Graduate Program Director: Mahyar Amouzegar

Master of Science in Engineering (code COE_MS01)

The College of Engineering offers graduate study programs for the Master of Science in Engineering degree. Typical tasks and responsibilities undertaken by students in the curriculum would not fall within one of the traditional specialties in engineering, e.g., aerospace, chemical, civil, electrical and mechanical engineering, or computer science and engineering. The student may pursue an interdisciplinary program, approved by the Graduate Advisor, by selecting courses from the various departments of engineering. Additional information concerning the programs, special facilities, laboratories and research possibilities may be obtained from the College of Engineering.

Prerequisites

1. A bachelor's degree in an ABET accredited curriculum in engineering with a minimum GPA of 2.7; or
2. A bachelor's degree with a minimum GPA of 2.7 in engineering, mathematics, natural science or other discipline with the requirement that essential undergraduate prerequisites in engineering are satisfied;
3. Graduate students must consult with a graduate advisor, with whom they will be working, for information concerning procedures and requirements for appropriate approval of their courses of study prior to enrolling in their graduate programs.
4. The Graduation Writing Assessment Requirement (GWAR) must be met during the first semester in residence. Failure to attempt to fulfill the GWAR during the first semester will prevent registration in engineering courses in subsequent semesters.

Advancement to Candidacy

1. Removal of all undergraduate deficiencies as determined by the Graduate Advisor;
2. Students may, at the discretion of the Graduate Advisor, be required to take examinations in some chosen areas;
3. Fulfillment of the Graduation Writing Assessment (GWAR);

Requirements

1. Completion of a minimum of 30 units beyond the bachelor's degree in upper division and approved graduate courses, including:
   A. A minimum of 18 units of 500 and/or 600 level courses in engineering;
   B. Six units of electives selected from approved upper division (400-level) or graduate courses from appropriate areas;
   C. Completion of an acceptable thesis or project and/or comprehensive examination.

Note: Students are strongly advised to read and be familiar with the campus regulations described under "Graduate Programs" elsewhere in this catalog.

Graduate Certificate in Systems Engineering (code COE_CT01)

Director: Mahyar Amouzegar

The 18-unit Post Baccalaureate Certificate Program in Systems Engineering (SE) is designed to provide interested students or practicing engineers with the very latest in SE capability and the ability to plan and execute complex SE projects. The Certificate Program includes focus toward development and management of complex systems. Each such complex system requires a clear SE Master Plan, a set of SE Methodologies, appropriate tools, a rigorous requirements flow-down technique, and a comprehensive Project Management Plan to enable system design and project management for effective and efficient human interaction.

Requirement

1. Completion of an accredited baccalaureate degree in engineering or equivalent;
2. Satisfactory completion of 18 units listed below;
3. File a program application card with Admissions and Records, and file for the Certificate at least one semester prior to completion;
4. The Certificate may be awarded concurrently or subsequentially to baccalaureate degree.

Required Courses

The Certificate Program requires a minimum of 18 semester units, as indicated below:
1. System Engineering Core Courses, 6 units of the following: MAE 508.
2. Elective Engineering Management Courses, 6 units from the following: CECS 521, MAE 506 and 507
3. Elective Manufacturing Courses, 3 units from the following: ENGR 574, 575 and MEA 574
4. Advanced Engineering Mathematics/Analysis, 3 units from the following: EE 505, 508, MAE 501 and 502

Ph.D. in Engineering and Industrial Applied Mathematics (code COE_PH01)

Program Director: Mahyar Amouzegar

Degree Designation

In accordance with an agreement between CGU and CSULB, the degree is designated the Doctorate of Philosophy in Engineering and Industrial Applied Mathematics and is granted at Claremont Graduate University in the name of the two universities. The diploma indicates the dual nature of the degree and specifies that it is granted only when requirements have been satisfied in both subject areas as specified by the collaborating institutions.

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Program Supervision

Overall program supervision is the responsibility of the Program Committee, consisting of the directors of the Joint Doctoral Program (JDP) from each institution, the Dean of Mathematics at CGU, and the Dean of Engineering at CSULB.

Admission Requirements

Students must be admitted to both institutions jointly. Admission will be granted to a limited number of qualified students; therefore, application should be made as early as possible. Applications are encouraged from both men and women, particularly from members of minority groups or individuals with disabilities. Completed applications must be received by April 1 for the fall semester or October 1 for the spring semester, although late applications are allowed at the discretion of the Program Committee. The Program Committee is responsible for making admission decisions consistent with campus regulations (see Application Procedure in this booklet).

To be admitted to the Joint Doctoral Program, an applicant must have received a bachelor’s or master’s degree in science, engineering, or mathematics from an accredited institution. Moreover, he or she must have attained scholastic records and present confidential recommendations which indicate that he or she is well qualified to pursue, with distinction, advanced study and research. Be advised that admission may be refused solely on the basis of limited facilities in the option desired.

GRE Requirement

The analytical, verbal, and quantitative portion of the General Record Examination (GRE) is required before admission. GRE subject examinations (mathematics and engineering) are not required. Applicants whose first or native language is not English are required to have a current minimum score of 550 (213 on the new scale) on the Test of English as a Foreign Language (TOEFL); however, this requirement is waived for students with a bachelor’s or master’s degree from an accredited U.S. university.

Registration and Enrollment

It is important that students register and enroll in classes each semester either at CGU or CSULB. Failure to enroll at any given semester will be considered leave without permission (discontinued enrollment) and the student will be dropped from the program.

Program Planning and Supervision

At CSULB, an initial engineering advisor is assigned to the student at the time of admission. At CGU, the student needs to arrange with the program director, within the first semester of study, for a mathematics advisor. The student’s program of study is arranged individually in collaboration with their advisors; the two advisors confer periodically regarding the student’s progress. The Program Committee monitors the student’s overall performance.

Course Work and Examinations

A minimum 72 units of course work, independent study, and research (including transfer credit) must be completed. Transfer credit of up to 24 units of related courses at the master’s level is permissible on approval of the Program Committee; this course work must have been completed with at least a grade of B or above, at an accredited institution, and must be directly related to the joint program and the student’s goals. Of the 72 units, a minimum of 24 units must be completed in the graduate engineering program at CSULB and a minimum of 24 in the graduate mathematics program at CGU. Both sets of 24 units must conform to the area requirements of the relevant institution and must be approved by the Program Committee. All degree requirements must be completed within seven years (or six with the transfer of 24 units according to CGU regulations) from the time a student begins graduate study.

Every doctoral student must maintain a cumulative grade-point average (GPA) of 3.0 and a grade-point average of 3.0 in all courses applicable to the degree. Furthermore, students must earn at least a grade of B or above in any course that is counted towards the course work requirement. Students are put on academic probation if they fail to maintain a cumulative or term GPA of at least 3.0 in all units attempted subsequent to admission to the degree program. Doctoral students are subject to disqualification if, within two semesters, while on probation, they fail to earn sufficient grade-points to remove the probationary status.

CSULB Course Requirement

The only specific CSULB course requirement is four units of Engineering 79C: Doctoral Seminar (2). The remaining 20 units, for students who have received transfer credit, may include courses needed for the Preliminary Examinations (see the Preliminary Examination section of this handbook), Doctoral Dissertation, Advanced Special Topics, and Advanced Directed Studies. Presently, students are permitted to count the following courses in addition to the regular graduate courses, offered by the five engineering departments, towards meeting the CSULB 24-unit course requirement:

- ENGR 79C: Advanced Special Topics in Engineering (8 units allowed)
- ENGR 795 or MAE 795: Advanced Directed Studies (8 units allowed)
- ENGR 796: Doctoral Seminar (4 units required)
- ENGR 798 or MAE 798: Doctoral Dissertation (4 units allowed)

Minimum Student Load Per Semester

It is highly recommended that doctoral students enroll in at least 9.0 units per semester in order to demonstrate progress towards the degree. The CSULB director of the program, in consultation with the doctoral advisor, may require that a student take at least 12.0 units per semester if the student is not showing adequate progress.

These courses may include the following courses:

- ENGR 797A: Preparation for Ph.D. Preliminary Examinations
- ENGR 797B: Preparation for Ph.D. Qualifying Examination

Students may take from 4.0 to 12.0 units of ENGR 797A or ENGR 797B each semester, though these courses may not be used to fulfill the 24-unit course work. Both of these courses are offered on Credit/No Credit bases and are designed to formally recognize the students’ efforts towards the program.
Residency Requirements

Doctoral students must complete their program within a period of seven years (or six with the transfer of 24 units) according to CGU regulations (see below). During this time, a minimum of 72 units of course work, independent study, and research (including transfer credit) must be completed. Normally no more than 16 units per semester may be credited toward the degree. No more than 12 units per summer session may be credited toward the degree. The transfer of credit form is available on the CGU website. The Program Committee will consider petitions for extensions and/or exemptions.

All degree requirements must be completed within seven years from the time a student begins graduate study. Work for which transfer credit is granted will be counted as part of the seven years, e.g., if transfer credit of 24 units (one year) is granted, the time limit will be six years.

The residency requirements for the Ph.D. may be met either by two semesters of full-time study in a 24-month period or by the completion of 48 units of course work within a 48-month period (excluding work in the summer session). Students who receive transfer credit for 12 units or less may meet the residency requirement either by completing two full-time semesters of course work within a 24-month period or by completing 36 units within a 48-month period. Those receiving transfer credit for 13 to 24 units may meet the residency requirement by completing 24 units within a 36-month period. The seven-year maximum time period for the Ph.D. degree is reduced by six months for 12 units or less of transfer credit and by 12 months for 13 to 24 units of transfer credit.

Plan of Study

After consultation with their advisors, students are required, before the end of the first year, to prepare and file with the Program Committee a Plan of Study for completing the course requirements for the degree. The purpose of the Plan of Study is to ensure that the student is aware of the requirements for the degree. The Plan of Study should indicate the areas of study that the student will be taking in preparation for the preliminary examinations. In consultation with the student’s advisor and Program Committee, the Plan of Study may be altered at a subsequent time by petition.

If a student withdraws from the program after completing a substantial portion of the course work, a master’s degree at either or both institutions is still possible by satisfaction of the appropriate requirements. Both CGU and CSULB require 31-36 semester units of course work for master’s degrees.

Preliminary Examinations

The student is required to pass written preliminary examinations. These examinations consist of four examination areas: two in engineering and two in mathematics. These examinations should be taken immediately after completion of the relevant course work at each institution. These examinations are given two or three times a year at the discretion and under the control of the Program Committee. Should a student fail an examination, they may petition the Program Committee for one retake.

Before taking the first preliminary examination, the student is required to complete the Preliminary Examination Permission Form (available at the CSULB website, www.csulb.edu/colleges/coe, or at the CGU site, www.cgu.edu/math). This form requires the student to specify the four areas of the Preliminary Examination; the student’s intended dissertation advisor and the directors of the Joint Doctoral Program must sign it. The purpose of this form is to certify that the student and dissertation advisor are in agreement on the set of examinations. If, in the course of time, this set of examinations and/or the advisor is amended, the form must be resubmitted. The preliminary examinations are considered completed when the four examinations specified on the student’s form have been successfully passed. For a list of courses, please review the student handbook on our website.

Research Tool

Students in the Joint Doctoral Program must demonstrate proficiency in problem-solving ability using computer programs. This demonstration may take different forms depending on the student’s engineering subdiscipline, but must include evidence that the student has used an appropriate computer language and an algorithmic method to solve a problem from an engineering discipline.

Research and Dissertation

Upon completion of at least 48 units of course work (including transfer units), the preliminary examinations, and the research tool requirement, a student embarks on the research phase of the Joint Doctoral Program. In preparation for the research phase, the student is expected to spend at least one semester in advanced graduate courses, seminars, or directed reading courses where exposure to research material is emphasized. From these and other sources, the student gains the ability to understand the motivation for research in engineering and applied mathematics and learns to apply research techniques.

Doctoral Committee

During entry to the program and through the period of the main body of course work at CGU and CSULB, the Program Committee will monitor the student’s progress. Upon successful completion of the preliminary examinations, the student petitions the Program Committee to constitute the Doctoral Committee. The student chooses this committee with advice from the faculty advisor and with approval of the Program Committee. The committee must include at least two faculty members each from CGU and CSULB; it must also provide breadth and depth in mathematics and engineering in the chosen faculty members. The Doctoral Committee supervises the student’s progress through research preparation and dissertation writing; it also administers the qualifying and oral examinations for the degree. The chair of the Doctoral Committee is the dissertation supervisor.

Research Proposal and Qualifying Examination

With these advanced courses as background, and with the guidance of the Doctoral Committee, the student defines an area of proposed research and prepares a written Dissertation Proposal containing an outline of the research to be undertaken and references to relevant source materials. The Dissertation Proposal is presented to the Doctoral Committee at least two weeks prior to the
Qualifying Examination. The appropriate form under “Doctoral Degree Forms” can be obtained from the CGU website www.cgu.edu (under Current Students, Registrar Information). The Qualifying Examination is an oral presentation to the Doctoral Committee describing the planned research. The student is expected to present evidence both as to the mathematical content and to the engineering application of the proposed research, supporting such evidence with references to previous research in both areas. The Doctoral Committee judges the fitness and quality of the Dissertation Proposal from this presentation and from the written proposal. It subsequently communicates its recommendations to the Program Committee. Only upon a positive recommendation may the student embark on a dissertation. In the event of failure, the qualifying examination may be retaken once after petition to the Program Committee.

Advancement to Candidacy

After successful completion of the Qualifying Examination and certification that all other requirements are fulfilled, the student is advanced to candidacy. The appropriate form under “Doctoral Degree Forms” may be obtained from the CGU website. This must occur at least six months before the Final Oral Defense. Dissertation and Final Oral Examination

Upon completion of the research, the student will prepare the dissertation in accordance with CGU regulations. A final draft of the dissertation will be presented to each member of the Doctoral Committee at least three weeks prior to the final oral examination. The appropriate form under “Doctoral Degree Forms,” along with an abstract of the dissertation, must be filed with CGU’s Office of Admission and Records three weeks before the exam. This deadline is very strict and no exceptions will be made. Please see the CGU website under “Academic Calendar” for the final defense scheduling dates. The oral defense will normally be held on the campus of the dissertation supervisor.

Policies and Procedures

1. Throughout their entire program of study, unit-taking students must be registered at either CGU or CSULB. Students, who intend not to take course work at either institution, including those who have finished their required units, must take the necessary steps to maintain continuous enrollment. This is achieved by registering for Math 499 (Doctoral Study) at Claremont Graduate University or by registering for Engineering 798 (Doctoral Dissertation) at California State University, Long Beach. At least two semesters of registration for Math 499 at CGU must be maintained during the last year prior to graduation. In order for the degree to be conferred, a student must meet all regulations as stated in the CGU Bulletin under “Dogma Regulations.”

Requests for leave of absence must be submitted to each registrar’s office and approved by both institutions according to the standards of each; upon approval of leave the student should advise the math office at CGU and the office of the Joint Doctoral Program at CSULB. Students should contact each registrar’s office for leave of absence policies. If the student fails to advise the registrar at CGU of his/her leave granted by CSULB, his/her will be dropped from the program (CGU has no official arrangement for leaves). Upon return, the student will be required to pay CGU a reinstatement fee in addition to regular semester tuition.

2. International students registered for units at CSULB must provide the CGU International Student Advisor, Nusha Shishogor, with proof of registration within two weeks of the beginning of the semester at CGU. Proof of full-time registration (8 units minimum) is required to maintain immigration status. (In the circumstance of completion of units, registration in Doctoral Study, CGU Math 499, is required.)

3. Students should arrange for advisors, one in math at CGU and one in engineering at CSULB, at the earliest opportunity. The program committee will help provide advisors.

4. After consultation with their advisors, students must submit a plan of study, including a petition for transfer of credits, if applicable, during their first year of study. The Plan of Study must be approved and transfer of units recommended to the Registrar by the program committee.

Procedures for Student Admission

1. Students must complete application forms for both CGU and CSULB. The completed application package must include official transcripts, three letters of reference (preferably from the forms supplied in the CGU package), a personal statement and a resume. Current, official GRE scores are required. Scores may not be older than 5 years.

2. The completed application package (including a separate Long Beach fee and application) must be submitted to the CGU Admissions Office, 100 East Tenth Street, Claremont, CA 91711-6163. Do not send application materials to CSULB as this will result in considerable delay. Both application fees are required.

3. Online applications are acceptable for the Joint Program; however, consult the Program Advisors at CGU and CSULB for appropriate procedures.

4. The CGU director of the CSULB/CGU Joint Doctoral Program, Ellis Cumberbatch, reviews completed files. In the event of a negative review, a rejection letter is issued by CGU. In the event of a positive review, the application, along with a copy of the completed file, is forwarded to the CSULB director of the CSULB/CGU Joint Doctoral Program, Dr. Methyeh Amoszegar.

5. Results of the Long Beach review are transmitted back to CGU Math. Upon a positive review by CSULB, the application and fee are sent to the CSULB Admissions Office to be processed. A negative review initiates a rejection letter from CGU.

6. Upon admission to the program, CGU will generate two admission letters; one is mailed to the student and one is sent to CSULB. This letter includes a decision card and specifies a required $200 tuition deposit that should be submitted to CGU if the student chooses to accept the offer of admission.

7. Students admitted to provisional status must provide the materials needed to complete their files before the end of their first semester of enrollment. Official scores for the GRE General Test are required of all students before admission to full graduate standing. The joint faculty program committee will review completed files for change of status.
8. The academic progress of students admitted to conditional status will be reviewed by the program committee prior to a decision about change of status.

Courses (ENGR)

LOWER DIVISION

100. Fundamentals of Engineering Analysis (4)
Prerequisites: Appropriate ELM score, ELM exemption, or MATH 111.
Use of an application-oriented, hands-on approach to math topics in a variety of core engineering courses: analysis of experimental data; applications of MATLAB in solving engineering problems.
Lecture grading only (A-F). (Lecture: 3 hours, Laboratory: 2 hours)

101. Introduction to the Engineering Profession (1)
Freshman orientation seminar on careers in engineering. Speakers from various fields illustrate opportunities and challenges in the engineering profession.
(Lecture-problems: 1 hour) Letter grade only (A-F).

102. Academic Success Skills (1)
Prerequisite: ENGR 101.
Development of skills and identification of strengths and weaknesses for success in a CSE major.
(Lecture: 1 hour) Letter grade only (A-F).

170. Introduction to Solid Modeling and Engineering Graphics (2)
Prerequisite: Knowledge of geometry and intermediate algebra.
An introduction to part modeling, solid models, drafting standards, and assembly modeling using SolidWorks software.
The class is focused on project-based learning, which organizes learning around complete projects.
Lecture only (A-F). (Lecture: 2 hours, Laboratory: 2 hours)

203. Engineering Problems and Analysis (3)
Prerequisites: MATH 122, Concurrent: ENGR 203.
Formulation of engineering problems and methods for their analysis. Application of vectors, matrices, derivatives, and integrals into integration into engineering problems. Computer aid analysis using MATLAB, MathCad, etc.
(Lecture: 2 hours) Letter grade only (A-F).

203L. Engineering Problems and Analysis Laboratory (1)
Prerequisite: MATH 122, Concurrent: ENGR 203.
Computer-based exercises on fundamental concepts such as vectors, matrices, derivatives, integrals. Practical engineering problems are assigned and solved using MATLAB.
(Laboratory: 3 hours) Letter grade only (A-F).

UPPER DIVISION

302L. Energy and Environment: A Global Perspective (3)
Prerequisites: Completion of the G.E. Foundation, one or more Explorations courses, and upper division standing.
(Lecture-Problems: 3 hours) Letter grade only (A-F).

310. English Proficiency for Engineers (3)
Prerequisites: ENGL 100, COMM 110.
The course focuses on effective communication across three main areas: oral communication, written communication, and working effectively in group settings. Formal essay structures are expected in all writing assignments and the course requires a formal oral presentation as well as group paper project.
Letter grade only (A-F). (Lecture-Problems: 3 hours) ENGR 310 is certified for the GWAR which means that students who have failed the WPE at least once can take the course and submit a portfolio at the end for GWAR credit. The GWAR credit will be issued if the student passes the portfolio which is reviewed by a committee.

340. Guitar Electronics: Engineering Sound (3)
Prerequisites: Upper division standing, completion of GE Foundation requirements, one course from GE category B1a. Historical review of electro-magnetic principles and their application to the reproduction, modification, and creation of sound. The electric guitar, its amplifiers, and special effects devices (analog and digital) will be used to gain practical experience. Electrical safety, physiology and physics of the ear.
Not open for credit to students with credit in EE 333. (Lecture: 2 hours, Laboratory: 3 hours) Letter grade only (A-F).

348. Introduction to Information Security, Privacy, and Societal Implications (3)
Prerequisites: Junior standing, computer literacy, and familiarity with PCs and Internet.
Provides basic understanding of some general principles of computer and information security, privacy, business/social implications. Discussions, demonstrations, and exercises.
Overview of underlying security methodologies and products, privacy/social implications, and concept of "Trustworthy" computing for security in organizations and personal computer/Internet use.
(Lecture-discussion: 3 hours) Letter grade only (A-F).

350. Computers, Ethics and Society (3)
Prerequisites: Three (3) units from GE Category A 1 (Writing) and 3 units from GE Category D (Social and Behavioral Science).
An examination of the social impact of information technology. Topics include a survey of the technology (software, hardware and key applications), ethical obligations of specialists, the computer in the workplace, shifts of power, privacy, and legal issues related to computing.
(Lecture: 3 hours) Letter grade only (A-F).

370L. Astronautics and Space (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
Combines the disciplines of space engineering with economics, human physiology, satellite meteorology, earth resources and environmental science, astronautics and space exploration. Emphasis on oral and written communications, numeracy and use of computers. Extensive use of computer animation, video graphics and the Internet.
(Lecture-Problems: 3 hours) Letter grade only (A-F).

375. Total Quality and Continuous Improvement (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
Total quality approach to achieve Continuous Improvement. Quality gurus and Deming’s philosophy on TQM: Stratopic planning, customer satisfaction, TQM tools, data representation, vendor evaluations, workplace improvement, supply chain management, Statistical tools for controlling quality. ISO 9000: Malcolm Baldrige Award, Deming’s Prizes, practices and cases studies, foam projects.
(Lecture-Problems: 3 hours) Letter grade only (A-F).

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388. Engineering for Elementary School Teachers (3)
Developing and fabricating teaching aids and integrated hands-on projects for elementary schools. Basic skill in teaching engineering and technology in the elementary grades.
(Lecture 2 hours, Laboratory 3 hours)

391. Engineering and Civilization (3)
Prerequisites: Completion of G.E. Foundation, one or more Exploration course, and upper division standing. Introduction to major problems of society, engineering, science, including impact of engineering and technology on society. Reading various public opinion pieces providing perspective and insight into current problems at interfaces between engineering and other disciplines, especially anthropology, art, sociology, economics, philosophy, psychology, science, social science.
(Lecture-Problems: 3 hours)

492B. Internship in Engineering (3)
Prerequisites: Major in College of Engineering, completion of 9 units of upper division COE coursework, a 2.5 GPA overall or 2.75 GPA in the student's major, and consent of instructor prior to registration. May be repeated to a maximum of 6 units in different semesters. (Activity 6 hours)

498. Engineering Systems Senior Project (3)
Prerequisites: Senior Standing.
Senior Project in Engineering Systems. Design and development of a senior project. Presentation of oral and written report.
Seminar 3 hours) Letter grade only (A-F)

GRADUATE LEVEL

511. Quality Assurance in Manufacturing (3)
Prerequisites: GE 406 or consent of instructor and graduate standing.
In depth studies of planning for quality, productivity and competitive positioning in manufacturing. Understanding the TQM process, inspection and standardization and product reliability strategies. Case study projects.
Letter grade only (A-F). (Lecture 3 hours)

574. Advanced Manufacturing Technology and Processes (3)
Prerequisites: Consent of instructor and graduate standing.
Build from manufacturing process into factory integration, study of advanced manufacturing processes including composites, electronics manufacturing, automated material handling, assembly inspection, warehousing, factory and office of the future. Automation, robotics applications, flexible manufacturing systems, group technology and the economics of the automated systems.
Letter grade only (A-F). (Lecture and Computer Laboratory 3 hours)

790. Advanced Special Topics in Engineering (4)
Prerequisites: MS or equivalent and formally admitted to the Ph.D. program.
Each offering is based on an area of engineering in which recent advances have been made. Specific topics will be recorded on student's transcripts.
Repeatable to a maximum of 8 units with different topics. Course Survey Form must be completed. Letter grade only (A-F).

795. Advanced Directed Studies (4)
Prerequisites: MS or equivalent and formally admitted to the Ph.D. program.
Explorations of theoretical and experimental (if applicable) Engineering problems in great depth with emphasis on mathematical modeling and analysis. Students must present the findings in a formal report and a seminar.
May be repeated to a maximum of 8 units. Course Survey Form must be completed. Letter grade only (A-F).

796. Doctoral Seminar (2)
Prerequisite: Graduate Standing. Research seminar on advanced technical fields.
May be repeated to a maximum of 4 units in different semesters. (Seminar 2 hours). Letter grade only (A-F).

797A. Preparation for Ph.D. Preliminary Examinations (4-12)
Prerequisite: Graduate Standing.
Tutorial limited to doctoral students who are preparing for the preliminary examinations.
May be repeated to a maximum of 12 units in different semesters or until the preliminary examinations requirements are fulfilled. ENGR 797A does not count towards the 48 units of course requirement. Credit/No Credit grading only.

797B. Preparation for Ph.D. Qualifying Examination (4-12)
Prerequisite: Graduate Standing.
Tutorial limited to doctoral students who are preparing for the qualifying examination.
May be repeated to a maximum of 12 units in different semesters or until the student has advanced to candidacy. ENGR 797B does not count towards the 48 units of course requirement. Credit/No Credit grading only.

798. Doctoral Dissertation (4-12)
Prerequisite: Successful completion of the Ph.D. preliminary examinations, research tool test, and at least 48 units of course work. A written dissertation proposal containing an outline of the research to be undertaken and references to relevant source material must be submitted. Only upon a positive recommendation a student may embark on a dissertation.
May be repeated to a maximum of 12 units in different semesters, but only 4 units will count towards the doctoral degree's course requirements. Letter grade only (A-F).

Courses (MSEM)

UPPER DIVISION

406B. Engineering Economy and Administration (3)
Prerequisite or Corequisite: ECON 300 or consent of instructor. Engineering management principles and economic analysis; with time value of money, after-tax analysis for rate of return. Graduate students will be required to do an additional assignment.
Letter grade only (A-F).
GRADUATE LEVEL

506B. Management of Engineering Technology and Innovation (3)
Prerequisite: Graduate engineering standing.
Analysis of the principles and theory of engineering administrative organizations, information systems, management functions, decision making tools, strategies and administrative policy formulations.
Letter grade only (A-F).

507B. Engineering Project Management (3)
Prerequisite: Graduate engineering standing.
Theory and philosophies of project management, principles of internal and industrial organization planning and control systems, motion in time study, industrial statistics, industrial research as aid to decision making.
Letter grade only (A-F).

508B. Systems Engineering and Integration (3)
Prerequisite: Senior standing or consent of instructor.
Introduction to the tools and methods employed by systems engineers in the aerospace industry. Development of system functions, requirements, verification and validation, and interfacing in the context of integrated product teams and the product life cycle.
Letter grade only (A-F).

511B. Advanced Manufacturing Management Systems (3)
Prerequisite: Consent of instructor.
Management systems for Integrated Product Development and Concurrent Engineering. Quality, Productivity and Costs, emphasis on Lean Manufacturing, Just-In-Time Manufacturing, Quality-Based Manufacturing Systems: TQM and ISO 9000; Customer Requirement and Quality Function Deployment; Design Manufacturing and Assembly; Poka-Yoke; Demand-Driven; "Pull" manufacturing; "Lean Enterprise".
Letter grade only (A-F).

570B. Engineering Management Principles and Applications (3)
Prerequisite: Graduate standing, or consent of instructor.
Engineering management principles and applications. Relationships of management functions - modern products or service based companies. Technical organization in global market place. Recognizing, empowering, concurrent engineering and systemic thinking. Evolutionary theories of management. Strategic planning, goal setting, communication, resource distribution, etc. Team projects.
Letter grade only (A-F).

591B. Engineers to Managers – A Transition (3)
Prerequisites: Consent of instructor and graduate standing.
Engineers transitioning to management. Engineering mindset advantages and disadvantages; Successful managers; Corporations - system of people, machines, and facilities; Requirements; inter-acting disciplines; "people skills" in non-coercive supervision. Technical managers; Managing Changes and technology; Team projects.
(Lecture Problems 3 hours) Letter grade only (A-F).

596B. Special Projects in Engineering Management (3)
Prerequisites: Eligible for advancement to candidacy and consent of instructor.
Under faculty supervision students will pursue synthesis work, as a culminating experience, on the topics learned for the interdisciplinary MSEM degree. In consultation with the Program Advisor, an independent study form must be completed. An acceptable project report must be submitted.
May be repeated to a maximum of 6 units. Letter grade only (A-F).
Engineeering Technology Programs

Career Possibilities

Computer Option: Hardware and software Computer Applications Engineers • Test Equipment Engineers • Manufacturing Engineers or Technical Sales Engineers in industry and organizations where a combination of hardware and software background is required

Electronics Option: Electronic Technician • Calibration Engineer • Construction Inspector • Computer Applications Engineer • Time Study Engineer • Facilities Planner • Field Engineer • Manufacturing Engineering • Operations Research Analyst • Sales Representative • Project Engineer • Associate Process Engineer • Product Design Engineer • Process Engineer • Instructor

Environmental Option: Air Quality Engineer • Compliance Officer • Environmental Assessment Consultant • Groundwater and Soil Contamination Specialist • Hazardous Materials Manager • Inoculation Management Specialist • Natural Resources Manager • Onsite Wastewater Disposal Director • Waste Management Environmental Engineer • Hazardous Waste Management Specialist • Technical Writer • Environmental Specialist • Urban-Environmental Studies Planner Director • Waste Management Director

Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.

Introduction

The Engineering Technology (ET) Programs at CSULB serve society by graduating well-prepared professionals, who are provided with an excellent education in the fundamentals of Engineering Technology through a combination of theory and laboratory practice, and who are able to apply their knowledge and transform their ideas into working systems. The goal of these ET programs is achieved through a number of educational objectives by the faculty participating in these programs:

1. Preparing students to commit to lifelong learning, continuing self-development and the ethical practice of Engineering Technology.
2. Providing well-designed curricula, that meet the industry needs.
3. Providing students with a solid foundation on a broad range of engineering technology areas, that are required of a professional technologist entering the workforce.
4. Training students in analysis, applications and hands-on laboratory work.
5. Providing students with opportunities to enhance their communication skills by means of writing reports, oral presentations and teamwork.
6. Providing modern and well-equipped instructional laboratories.

In addition, an Engineering Technology Advisory and Development Council (ETADC), composed of leaders actively engaged in areas of relevant engineering technology continually provides information and guidance about industrial developments in methods, materials and techniques so that the programs reflect the best of current practices. The members examine various aspects of the programs and make recommendations for changes in curriculum content, methods and/or facilities. Present membership in the council is made up of representatives from the different sectors of the American industries or corporations.

The ET programs are administered by the following five departments in the College of Engineering: Chemical Engineering (CHE), Civil Engineering and Construction Engineering Management (CECM), Computer Engineering and Computer Science (CECS), Electrical Engineering (EE), and Mechanical and Aerospace Engineering (MAE).

General Requirements

All students in the BSET, BSEET, or BSCET programs must receive a minimum grade of "C" in each of the prerequisite courses before enrolling in any Engineering Technology course. In addition to any other university requirements regarding grade point averages for graduation, student must achieve a minimum of 2.0 average in all Engineering Technology courses.

Bachelor of Science in Engineering Technology

Option in Technology and Engineering Education (code ET_BS15) (120 units)

Administered by the Computer Engineering and Computer Science Department.

Faculty Advisor: Barbara Mack
CECS Department Office - ECS 540
Faculty Advisor's Office - ECS 524
Faculty Advisor's Telephone: (562) 985-1985

The Technology and Engineering Education Option is for students preparing to teach technology and programming courses at the middle or high school level. This Option has been approved by the Commission on Teacher Credentialing as a subject matter preparation program for students who plan to teach on the Industrial and Technology (ITE) credential.

To earn a teaching credential in Industrial and Technology Education, students must also complete a Single Subject Program sequence of professional preparation courses, including student teaching. CSULB Long Beach does not currently offer a Single Subject Credential Program in Industrial and Technology Education, but post-baccalaureate ITE programs are offered at nearby universities. For information about earning a Single Subject teaching credential, see an advisor in the Teacher Preparation Advising Center (EDT-07) in the College of Education. For information about the Technology and Engineering Option, students should consult the department's Industrial and Technology Education advisor.
Requirements

Lower Division: CECS 100, 110, 174, 200, 202, CEM 121, 125; ENGR 101, 102, ET 101, 170, 250 and 250L (or ET 302 and 302L); DESN 120A; MAE 272; PHYS 100A and 100B.

Upper Division: CE 420; CECS 310; CEM 310, DESN 368; ENGR 302; ET 307.

Concentration 1: CECS 401, 410, 414; ETEC 435.

Concentration 2: CE 406; ET 244, 244L, 264, 264L, 313, 313L, 335.

Option in Environmental Technology (code ET__BS06) (133 units)

Administered by the Chemical Engineering Department.

CHE Department Office - EN2 101

The Environmental Technology Option program is designed to provide career educational opportunities to students whose technological interests and aptitudes are applications-oriented. The program is intended to produce occupational-ready college graduates with practical skills and potential for growth to meet defined technical manpower needs, primarily for California's environmental industry. To achieve these goals, emphasis is placed on meeting students' needs through lecture and laboratory teaching, through the co-op program with local industry, and through other relevant learning experiences.

In addition to acquiring technical knowledge and skills, graduates will be able to communicate well. They will be prepared not only for immediate employment but for continuing development as citizens and responsible human beings as well. This will be accomplished by requiring appropriate courses in technical fields, communications, and in general education courses. Furthermore, the ethical considerations of environmental issues will have a major role throughout the curriculum. Finally, every effort is made to help the students in proper job placement upon graduation. This option is not accredited.

Prerequisite Core

Lower Division: CHEM 111A, MATH 120, ENGR 203, ENGR 203L, PHYS 100AandB, ET 101, 170, 202, 202L, 204, 205, 205L.

Upper Division: ECON 300, ET 301, 301L, 307, 309 (or ENGR 310), 335, 335L, 410.

Requirements

Lower Division: ET 206, 209, 210, 213.

Upper Division: ET 319, 329, 329L, 333, 333L.

Select at least 11 units of approved electives in consultation with an advisor from the following courses: ET 409F, 470, 485, HISC 422.

Fieldwork Requirements

Fieldwork experience is required for the BS in Engineering Technology, Option in Environmental Technology, consisting of no less than three months full-time (40 hours/week) or equivalent part-time) of employment in an approved industry or governmental agency. The student must hold a position equivalent to a technician or higher which affords the opportunity to exercise responsibility usually given to those who have completed two years of college. The fieldwork must be completed prior to graduation, be certified and approved by the faculty of the Department.

Bachelor of Science in Computer Engineering Technology (code ET__BS16) (129 units)

Administered by the Electrical Engineering Department.

Faculty Advisor: I-Huang Khoo

LL Department Office - ECS 512

Faculty Advisor's Office - ECS 517

Faculty Advisor's Telephone: (362) 985-1065

The primary objective of the Computer Engineering Technology program, accredited by TAC of ABET (Accreditation Board for Engineering and Technology Inc., 111 Market Place, Suite #1050, Baltimore, MD 21202, phone: 410-347-7710, website: http://www.abet.org), is to prepare graduates to pursue careers related to manufacturing, integration, and support of computer systems. Emphasis is placed on specific job skills required of entry level professionals in computer industry, including systems analysis and design, data administration, networking, data communications, data acquisition, oral and written communication, and management principles. The Computer Engineering Technology program is available to students interested in the manufacturing of computers and the applications and operations aspects of computer hardware and software. The program is designed to meet ABET criteria for accredited programs in engineering technology. The graduates of this program should find employment in industry and organizations where a combination of practical hardware and software background is important.

Requirements


Select at least 3 units from the following, in consultation with an advisor: ET 301, 301L, 409E, 491L, 491L.

Fieldwork Requirements

Fieldwork experience is required for the BS in Computer Engineering Technology, consisting of no less than three months full-time (40 hours/week) or equivalent part-time) of employment in an approved industry or governmental agency. The student must hold a position equivalent to a technician or higher which affords the opportunity to exercise responsibility usually given to those who have completed two years of college. The fieldwork must be completed prior to graduation, be certified and approved by the faculty of the Department.

Bachelor of Science in Electronics Engineering Technology (code ET__BS02) (129 units)

Administered by the Electrical Engineering Department.

Faculty Advisor: I-Huang Khoo

EE Department Office - ECS 512

Faculty Advisor's Office - ECS 517

Faculty Advisor's Telephone: (362) 985-5082

The Electronics Engineering Technology program, accredited by TAC of ABET (Accreditation Board for Engineering and Technology Inc., 111 Market Place, Suite #1050, Baltimore, MD 21202, phone: 410-347-7710, website: http://www.abet.org), prepares the student for a position as a technologist, in such industries as aerospace, computers,
communications, biomedical, chemical, power, etc. Students are offered a wide range of training in topics such as instrumentation, controls, microprocessors, microelectronics, biomedical electronics, communications, motors and generators, robotics, computer applications, programming and interfacing. Moreover, the program emphasizes written and oral communications skills as well as modern methods of industrial administration and supervision. The program is designed to meet ABET criteria for accredited programs in engineering technology.

Requirements


Select at least 3 units from the following, in consultation with an advisor: ET 301, 301L, 4098, 445, 445L.

Fieldwork Requirements

Fieldwork experience is required for the BS in Electronics Engineering Technology, consisting of no less than three months full-time (40 hours/week) or equivalent part-time) of employment in an approved industry or governmental agency. The student must hold a position equivalent to a technician or higher which affords the opportunity to exercise responsibility usually given to those who have completed two years of college.

The fieldwork must be completed prior to graduation, be certified and approved by the faculty of the Department.

Engineering Technology Courses (ET)

LOWER DIVISION

101. Introduction to Engineering Technology (1)
Survey of professional activities and environment of engineering technology. Covers role of technology in American industry, the history of technology and the growth and future of those professionals who hold the Bachelor of Science degree in Engineering Technology.
(Lecture-Discussion 1 hour) Credit/No Credit grading only.

170. Engineering Drafting and Design (3)
Prerequisite: Sophomore standing.
Graphic communication including freehand sketching. Introduction to blueprint reading and computer aided drafting. Emphasis on engineering drafting practices: general standards, tolerances, thread seals, welding joints, surface finishes, fasteners, structural shapes. (Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

202. Probability and Statistics for Technology (3)
Prerequisite: High school algebra. Corequisite: ET 202L.
Statistics and probability theory, sampling, correlation, regression as applied to Engineering Technology.
(Lecture-problems 3 hours) Letter grade only (A-F).

202L. Probability and Statistics for Technology Laboratory (1)
Prerequisites: 2 yrs high school algebra, geometry, and intermediate algebra (or MATH 010) or equivalent. Corequisite: ET 202.
Laboratory exercises in statistics and probability theory, sampling, correlation, regression as applied to Engineering Technology. Simulation using statistical packages. (Laboratory 3 hours) Letter grade only (A-F).

204. Applied Mechanics-Statics (3)
Prerequisites: MATH 120, PHYS 100A.
Force systems acting on structures, moments, equilibrium, centroids, trusses, beams, cables, frames, machines, friction, section properties, masses, units of measurements. (Lecture 2 hrs, activity 2 hrs) Letter grade only (A-F).

205. Computer Systems and Programming (1)
Corequisite: ET 205L.
Overview of computer systems, hardware, and software development. Hardware topics include central processing unit and memory, input/output devices, storage mechanism, and communication. Software topics include programming languages, operating systems, and systems analysis and design. (Lecture-discussion, exercise, 1 unit) Letter grade only (A-F). Same as CEM 205.

205L. Computer Systems and Programming Lab (1)
Corequisite: ET 205.
Lab exercises in computer programming to solve problems in business, manufacturing, research and simulation. An object-oriented programming language will be used for these activities. (Laboratory 3 hours) Letter grade only (A-F). Same as CEM 205L.

206. Introduction to Environmental Hazardous Materials and Waste Technology (3)
Prerequisites: CHEM 111A, PHYS 100A.
Overview of environmental effects of industrial pollution and history of environmental legislation. Study of industrial processes and generation of waste streams in selected industries. Introduction to concepts of sustainable development, energy conservation, waste minimization and waste treatment. Letter grade only (A-F). (Lecture-Discussion 3 hours)

208. Hazardous Waste Stream Generation, Reduction, Treatment (3)
Industrial processes and waste streams in industry: electroplating, metal finishing/printed circuit board production, oil refining/chemical production, general manufacturing, printing/photographic reproduction, agriculture/consumer services. Raw materials/chemicals in industry as they move through industrial processes, material balance, inventory, regulations and importance of waste minimization/treatment. Letter grade only (A-F).

209. Environmental Applications of Physical and Organic Chemistry (2)
Prerequisite: CHEM 111A.
Applications of physical and organic chemistry in environmental science and engineered environmental systems. Letter grade only (A-F). (Lecture-Discussion 2 hours)

210. Hazardous Materials and Waste Management (3)
Prerequisites: CHEM 111A, ET 205L.
A study of the requirements of federal, state and local regulations relating to the management of hazardous materials and hazardous wastes. Particular focus on compliance with shipping, storage, labeling, sampling, and inventory and release reporting requirements. Letter grade only (A-F). (Lecture-Discussion 3 hours)

212. Hazardous Materials Management Application (3)
Requirements and applications of federal, state and local laws and regulations relating to hazardous materials. Compliance with Department of Transportation, Occupational Safety and Health Administration, Hazard Communication, Superfund Amendments and Reauthorization Act, Title III community Right to Know etc. Letter grade only (A-F).
213. Environmental Health, Safety and Emergency Response (3)
Prerequisites: CHEM 111A, ET 206.
Hands-on instruction in safety and emergency response to chemical and physical exposures in industrial and field settings. Acute and chronic health effects produced by exposure to chemical agents.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

244. Machine Tools (1)
Corequisite: ET 244L.
Operations and use of the conventional and non-conventional machine tools.
Not open for credit to students with previous machine tools credit.
(Lecture-Discussion 1 hour) Letter grade only (A-F).

244L. Machine Tools Laboratory (1)
Corequisite: ET 244.
Laboratory exercises using conventional and non-conventional machine tools.
Not open for credit to students with previous machine tools experience.
(Laboratory 3 hours) Letter grade only (A-F).

250. Circuit Analysis I (2)
Prerequisite: PHYS 100B. Corequisite: ET 250L.
Fundamentals of DC theory, units of measurement, systems of units. Current, voltage, resistance, Ohm’s law, power, energy. Series and parallel circuits. Methods of analysis and selected topics. Network theorems such as superposition, Thevenin’s, Norton’s and Millman’s theorems.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

250L. Circuit Analysis I Laboratory (1)
Prerequisite: PHYS 100B. Corequisite: ET 250.
Laboratory exercises will be conducted on AC and DC circuits using DMM boards and power supplies, multimeter, function generator, oscilloscopes and frequency counters.
(Laboratory 3 hours) Letter grade only (A-F).

252. Circuit Analysis II (2)
Prerequisites: MATH 120, ET 250, 250L. Corequisite: ET 252L.
Study of circuit analysis techniques in AC, including network theorems, mesh and nodal analysis, transistors, time domain and phasors, magnetic circuits, sinusoidal and non-sinusoidal waveforms, resonance circuits (series and parallel), filters (low pass, high pass, passband and bandstop).
(Lecture-Discussion 2 hours) Letter grade only (A-F).

252L. Circuit Analysis II Laboratory (1)
Prerequisites: MATH 120, ET 250, 250L. Corequisite: ET 252.
Laboratory exercises will be conducted on AC circuits using DMM boards and AC power supplies, function generators, oscilloscopes, and frequency counters.
(Laboratory 3 hours) Letter grade only (A-F).

255. Introduction to Digital Electronics (2)
Prerequisites: ET 250, 255L. Corequisite: ET 255L.
Combination logic utilizing Boolean algebra and the binary numbering system. Includes Karnaugh maps, truth tables, coding, switching circuits, converters and logic circuit elements.
(Lecture-problems 2 hours) Letter grade only (A-F).

255L. Introduction to Digital Electronics Laboratory (1)
Prerequisites: ET 250, 255L. Corequisite: ET 255.
Laboratory exercises in basic logic circuits. Topics include basic logic, combinational and combinatorial circuits.
(Laboratory 3 hours) Letter grade only (A-F).

260. Solid-State Electronics I (2)
Prerequisites: ET 252, 252L. Corequisite: ET 260L.
Analysis and design of solid-state electronic circuits using diodes, bipolar, unijunction and field-effect devices.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

260L. Solid State Electronics I Laboratory (1)
Prerequisites: ET 252, 252L. Corequisite: ET 260.
Laboratory exercises in broadbanding and measurements of solid-state circuits utilizing all types of electronic measuring equipment.
(Laboratory 3 hours) Letter grade only (A-F).

264. Industrial Tooling (1)
Prerequisite: ET 170. Corequisite: ET 264L.
Design of tools for production. Typical tooling problems include working drawings and hardware.
(Lecture-Discussion 1 hour) Letter grade only (A-F).

264L. Industrial Tooling Laboratory (1)
Prerequisite: ET 170. Corequisite: ET 264.
Laboratory experiments in tool design in relation to mass production.
(Laboratory 3 hours) Letter grade only (A-F).

286. Introduction to Object-Oriented Programming (2)
Prerequisites: ET 205, 205L. Corequisite: ET 286L.
Introduction to an object-oriented programming language (C++). Problem analysis and software development methodology.
Emphasis on applications to technology
(Lecture-Discussion 2 hours) Letter grade only (A-F).

288L. Introduction to Object-Oriented Programming Laboratory (1)
Prerequisites: ET 205, 205L. Corequisite: ET 288.
Introduction to an object-oriented programming language (C++). Problem analysis and software development methodology.
Emphasis on applications to technology.
Letter grade only (A-F). (Laboratory 3 hours)

UPPER DIVISION

301. Engineering Materials (2)
Prerequisites: CHEM 111A; Corequisite: ET 301L.
Study of physical and mechanical properties and applications of engineering materials.
Letter grade only (A-F). (Lecture-Discussion 2 hours)

301L. Engineering Materials Laboratory (1)
Prerequisites: CHEM 111A; Corequisite: ET 301.
Laboratory investigation and experiments in the application of engineering materials. Field trips.
Letter grade only (A-F). (Lab 3 hrs)

302. Industrial Electricity (2)
Prerequisite: PHYS 100B, corequisite: ET 302L.
Overview of electrical principles and applications in electrical manufacturing industries including instrumentation and power distribution.
Letter grade only (A-F). (Lecture 2 hours) May not be used for credit for the ELCET program.

302L. Industrial Electricity Laboratory (1)
Prerequisite: PHYS 100B, corequisite: ET 302.
Overview of laboratory techniques in electrical engineering technology and applications in the industry.
Letter grade only (A-F). (Laboratory 3 hours) May not be used for credit for the ECET program.
304. Applied Mechanics Strength of Materials (3)
Prerequisite: ET 204.
Analysis of strength and rigidity of structural members in resisting applied forces, stress, strain, shear, moment, deflections, combined stresses, connections, and moment distributions.
Letter grade only (A-F). (Lecture-Discussion 3 hours)

307. Industrial Safety (2)
Prerequisite: Junior Standing.
Survey of industrial safety administration, engineering and management. Emphasis is placed on the role of the first line supervisor in establishing and maintaining a safe, healthful work environment for employees. Introduction to supporting computer resources used in the safety field.
Letter grade only (A-F). (Lecture-Discussion 2 hours)

309. Industrial Communications and Leadership (3)
Prerequisite: LT 101.
English Composition. Principles, theories of industrial communications and management for engineering technology. Management functions of planning, organizing, motivating, loading, controlling and staffing in technical environment. Intro to decision support models: written/oral technical information; communication forms and procedures of industry, with computer applications.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

311. Quality Engineering Technology (3)
Prerequisites: ET 202, 202L,
Junior standing. Quality engineering technology principles and practices in industry, including management concepts, inspection practices, costs of quality and testing.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

312. Statistical Quality Control (3)
Prerequisite: ET 311.
Statistical process control; including use of statistical methods for analysis and improvement of product quality, control charts, linear correlation; sampling procedures, stratification, cause and effect analysis, process capability and introduction to design of experiments.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

313. Quality Assurance, Inspection Measurement and Testing (3)
Prerequisite: ET 311; Corequisite: LT 313L.
Theory and application of inspection procedures, instrument calibration, precision measurements including theory and application of non-destructive testing of materials for quality control.
Letter grade only (A-F).

313L. Quality Assurance, Inspection Measurement and Testing Laboratory (1)
Prerequisite: ET 311; Corequisite: ET 313L.
Laboratory experiments; instrument calibration including standards and precision measurements including the use of non-destructive test equipment for quality control.
(Laboratory 3 hours) Letter grade only (A-F).

319. Environmental Regulations and Compliance (3)
Analysis of federal and local administration of environmental laws, including the National Environmental Policy Act of 1969 and litigation of that act in the courts. Special attention paid to California and comparison of the environmental regulation policies of California.
(Lecture-Discussion 5 hours) Letter grade only (A-F).

329. Environmental Study of Groundwater and Soils (2)
Corequisite: ET 320L.
Detection, analysis and control of groundwater/soil contamination involving the regulatory hierarchy, distribution network and subsurface formations. Basic tools and procedures utilized in compliance operations.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

329L. Environmental Study of Groundwater and Soils Laboratory (1)
Corequisite: ET 329.
Laboratory exercises in the techniques of detection, analysis and control of groundwater/soil contamination. Rules of compliance set by regulatory hierarchy, distribution network and subsurface formations.
(Laboratory 3 hours) Letter grade only (A-F).

333. Solid Waste Technology (2)
Corequisite: ET 333L.
Survey of regulated hazardous and non-hazardous solid waste generated by common industrial processes. Topics include waste generation, storage, collection, transfer, transport, processing and recovery. Consideration of system performance, legislation, regulations and environmental impact.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

333L. Solid Waste Technology Laboratory (1)
Corequisite: ET 333L.
Techniques of identification, measurement and assessment of solid waste. Focus on regulated hazardous solid waste from common industrial processes. Topics include waste generation, storage, collection, transfer, transport, processing and recovery. Consideration of system performance, legislation, regulations and environmental impact.
(Laboratory 3 hours) Letter grade only (A-F).

335. Engineering Materials and Processes I (3)
Corequisite: ET 335L.
Examination of engineering materials and manufacturing processes including the study of: Phase diagrams; heat treatment; metal casting processes; welding and hardening; corrosion; powder metallurgy; electronic fabrication; tribology; friction, wear, lubrication; surface treatment; coating and cleaning.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

335L. Engineering Materials Processes I Laboratory (1)
Corequisite: ET 335L.
Laboratory exercises in engineering materials and manufacturing processes including the study of: Phase diagrams; heat treatment; casting; metallurgy and electronic manufacturing processes.
(Laboratory 3 hours) Letter grade only (A-F).

341. Solid State Electronics II (2)
Prerequisite: ENGR 203, 203L, ET 260, 260L, corequisite: ET 341L.
Miller's Theorem, integrated circuits, feedback, operational amplifiers, Fourier series, distortion, modulation, phase-locked loops, linear and non-linear circuits, and breadthcasting.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

341L. Solid State Electronics II Laboratory (1)
Prerequisites: ENGR 203, 203L, ET 260, 260L, corequisite: ET 341L.
Laboratory exercises in design and measurement of various circuits using operational amplifiers, comparators, regulators, silicon controlled rectifiers, frequency meters and phase-locked loops.
(Lab 3 hours) Letter grade only (A-F).

350. Motors and Generators (2)
Prerequisites: ET 252, 252L, corequisite: ET 350L.
Study of electric rotating machinery, its theories, principles, design and applications in automation industries.
(Lecture-Problems 1 hour) Letter grade only (A-F).

350L. Motors and Generators Laboratory (1)
Prerequisite: ET 252 252L, corequisite: ET 350L.
Laboratory exercises in application and design of rotating machines. Topics covered are DC machines, synchronous machines, servomotor, stepper motor, and control circuits.
(Laboratory 3 hours) Letter grade only (A-F).

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360. Control Instrumentation (2)
Prerequisites: ET 260, 260L; corequisite: ET 360L.
Application and basic design of analog and digital control instrumentation for industrial processes. Physical and electrical properties of thermal, mechanical and optical transducers with associated signal conditioning.
(Lecture-Problems 2 hours) Letter grade only (A-F).

360L. Control Instrumentation Laboratory (1)
Prerequisites: ET 260, 260L; corequisite: ET 360.
Laboratory exercises in developing and measuring various control systems utilizing operational amplifiers, transducers, thermocouples, bridges, and various pressure devices.
(Laboratory 3 hours) Letter grade only (A-F).

363. Kinematics of Mechanisms (3)
Prerequisites: ET 170, ET 204.
Mathematical and graphical approaches to analyse the motion of mechanisms, for further machine development, through studies of displacement, velocity and acceleration of mechanical elements.
(Lecture-Discussion 2 hours, Activity 2 hours) Letter grade only (A-F).

365. Fluid Power and Control (2)
Prerequisite: ET 204; Corequisite: ET 365L.
Fundamentals and application of hydraulic, pneumatic and vacuum power as used in current manufacturing plants.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

365L. Fluid Power and Control Laboratory (1)
Prerequisite: ET 204; Corequisite: ET 365.
Demonstration and operation of fluid power systems. Design and selection of components for specific applications. Computer data acquisition and analysis.
(Laboratory 3 hours) Letter grade only (A-F).

366. Introduction to Microprocessors (2)
Prerequisite: ET 286, 286L; Corequisite: ET 390L.
Theory and concept of programming, hardware configuration, and functional capabilities of microcomputer systems including peripheral devices.
(Lecture-Problems 2 hours) Letter grade only (A-F).

366L. Introduction to Microprocessors Laboratory (1)
Prerequisites: ET 286, 286L; corequisite: ET 386.
Laboratory exercises in programming microcomputers. Topics included are number systems, microcomputer structure, memory, timing, peripheral devices operation, and system operation.
(Laboratory 3 hours) Letter grade only (A-F).

387. Robot Programming and Mechatronics (2)
Prerequisites: ET 205, 205L; corequisite: ET 367L.
Basic concepts of robot manipulations, robot kinematics, robot programming languages. Applications of industrial robots, machine vision systems. Basic concepts of mechatronic systems: combine hardware, software, interface, and system integration to make an intelligent system. Sensors and actuators for robotics and mechatronic systems.
(Lecture-Problems 2 hours) Letter grade only (A-F).

387L. Robot Programming and Mechatronics Laboratory (1)
Prerequisite: ET 205, 205L; corequisite: ET 387.
Laboratory exercises in industrial and educational robot operation and applications. Laboratory exercises on mechatronic systems. Robot systems and their computer language instructions will be used. The experiments include teach pendant programming, high level language programming, workcell applications, continuous path programming.
(Letter grade only (A-F).

388. Technical Applications Using Programming Languages (2)
Prerequisites: ET 286, 286L; corequisite: ET 388L.
Techniques for design and development of industrial programs for computer-aided design, structural analysis, program testing, top-down structured programming concepts and tools, object-oriented programming, and memory management. Concepts are investigated and examined for use in solving complex problems.
(Lecture-Problems 2 hours)

388L. Technical Applications Using Programming Languages Laboratory (1)
Prerequisites: ET 286, 286L; corequisite: ET 386.
Techniques for design and development of industrial programs that includes computer-aided design, module coupling strength, program testing, top-down structured programming concepts and tools, object oriented programming, and memory management. Concepts are investigated and examined for use in solving complex problems.
(Laboratory 3 hours)

390. Applied Computer-Aided Design and Manufacturing (2)
Prerequisites: ET 170, 205, 205L; corequisite: ET 390L.
Role of the computers in the manufacturing process, application of CAD/CAM systems, hardware and software components for automation, part programming for manufacturing, computer controlled manufacturing equipment simulation, programming the factory.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

390L. Applied Computer-Aided Design and Manufacturing Laboratory (1)
Prerequisites: ET 170, 205, 205L; corequisite: ET 390.
Use of microcomputer based hardware and software to solve 2D and 3D modeling problems. Computer automation software packages. Also includes part programming and CAD/CAM data exchange exercises.
(Laboratory 3 hours) Letter grade only (A-F).

409. Senior Problems in ET (1-3)
Prerequisites: Senior standing in ET, consent of instructor.
Advanced work in a technical nature within an area of specialization on an experimental or research basis.
Letter grade only (A-F).

B. Electronics Technology
C. Manufacturing Technology
D. Quality Assurance
E. Computer Technology
F. Environmental Technology

410. Cost Engineering and Analysis (3)
Prerequisites: Economics course, Junior Standing.
Introduction to the concepts of capital and operations budgets, capital acquisitions, economic evaluations of capital alternatives and factors of the time-value of money in industrial operations and construction industries.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

415. Production Methods and Process Improvement (3)
Prerequisite: ET 410.
Simplification and improvement of manufacturing operations through the use of decision analysis tools such as inventory control and scheduling.
419. Design of Experiments (3)
Prerequisite: ET 312.
Advanced statistical analysis applied to quality functions. Comparative and single factor experiments. Factorial designs and multiple regression.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

435. Engineering Materials and Processes II (3)
Prerequisites: ET 335, 335L. Corequisite: ET 435L.
Application of engineering materials and manufacturing processes including rolling, forging, extrusion and drawing, sheet-metal forming, manufacturing of plastics and composites, material removal processes and rapid prototyping.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

435L. Engineering Materials and Processes II Laboratory (1)
Prerequisites: ET 335, 335L; corequisite: ET 435.
Continuation of ET 335L. Laboratory exercises in: welding processes; machining processes; metal forming; manufacturing of composite materials.
(Laboratory 3 hours) Letter grade only (A-F).

441. Theory of Electronic Control (3)
Prerequisites: ET 360, 360L.
Procedures for the design, preparation and evaluation of electronic systems which control manufacturing and production processes, simulation analysis for sensing, programming, and actuating operations.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

442. Computer Circuits (2)
Prerequisites: ET 255, 255L; corequisite ET 442L.
Introduction to digital hardware design. Combinational/sequential logic circuits and systems and application of integrated circuits to logic controls. Programmable logic devices, Field-programmable gate array, Circuit synthesis, and analysis.
(Lecture-Problems 2 hours) Letter grade only (A-F).

442L. Computer Circuits Laboratory (1)
Prerequisites: ET 255L, 255L; corequisite ET 442.
Laboratory study of digital computer circuits design and implementation. Standard designing and troubleshooting procedures will be discussed. Topics covered are adders, subtractor, comparator, register, counter, decoder, arithmetic circuits, and memory.
(Laboratory 3 hours) Letter grade only (A-F).

444. Telecommunications (3)
Prerequisites: ET 360, 360L.
National Communication Network, decibels, transmission units, transmission lines, characteristic impedance, loading systems, lattice networks, PCM, Nyquist Criterion, Bessel functions, coaxial cable, fiber optics, microwave, impedance matching, and Smith chart.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

445. Microelectronics (2)
Prerequisites: ET 350, 350L; corequisite ET 445L.
Design, processing and applications of monolithic and hybrid microcircuits for analog and digital systems.
(Lecture 2 hours) Letter grade only (A-F).

445L. Microelectronics Laboratory (1)
Prerequisites: ET 350, 350L; corequisite ET 445L.
Laboratory exercises in the processing of thick film and thin film materials, ultrasonic and thermodenuding wire bonding and laser resistive trimming. Practical application and equipment utilization is emphasized.
(Laboratory 3 hours) Letter grade only (A-F).

447. Industrial Applications of Electronic Circuits (2)
Prerequisites: ET 341, 341L; corequisite: ET 447L.
An in-depth study of the applications of important electronic circuit concepts in industry: Analysis of circuits and how they work in industrial applications. Techniques for troubleshooting of design circuits. Biomedical electronic circuits which have industrial applications are emphasized.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

447L. Industrial Applications of Electronic Circuits Laboratory (1)
Prerequisites: ET 341, 341L; corequisite: ET 447.
Laboratory exercises include constructing circuits which have important applications in industry: Troubleshooting methodology emphasized throughout. Assignments focus on biomedical electronic circuits which have industrial applications.
(Laboratory 3 hours) Letter grade only (A-F).

460. Electronics Project Design and Development (2)
Prerequisites: ET 341, 341L and senior standing; Co-requisite: ET 460L.
Laboratory exercises in electronics project design and development. Topics include: product planning, implementation planning, proposal and approvals, prototyping, system integration, packaging, overall testing, and reporting. Formal demonstration, oral presentation on a finished product and written report on the final design.
This capstone course is open to Electronics Technology majors only. Letter grade only (A-F). (Lecture-Discussion 2 hours)

460L. Electronics Project Design and Development Laboratory (1)
Prerequisites: ET 341, 341L and senior standing; Co-requisite: ET 460.
Laboratory exercises in electronics project design and development. Topics include: product planning, implementation planning, proposal and approvals, prototyping, system integration, packaging, overall testing, and reporting. Formal demonstration, oral presentation on a finished product and written report on the final design.
Letter grade only (A-F). (Laboratory 3 hours)

461. Management of Manufacturing Operations (3)
Prerequisite: ET 410.
Application of analytical planning and control techniques to the resources of industry including the physical plant, equipment, personnel, inventories and supplies used in the production of products and services.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

476. Environmental Impact (3)
Prerequisite: BIOL 306.
Required components of environmental impact reports and assessments and the processes involved in their preparation. Special emphasis is placed on the biological portions of EIRs and impact on flora and fauna.
(Lecture-Discussion 3 hours) Letter grade only (A-F).

486. Data Structures (2)
Prerequisites: ET 380, 380L; corequisite: ET 486L.
Data structures and applications. Choice and implementation of appropriate data structures for applications. Treatment of arrays, lists, stacks, queues, linked lists, trees, and assorted algorithms. Introduction to search and sorting. File organization techniques.
(Lecture - Problems 2 hours) Letter grade only (A-F).
486L. Data Structures Laboratory (1)
Prerequisites: ET 388, 388L; corequisite: ET 486.
Laboratory exercises in data structures and applications. A recursive
programming language will be used.
(Laboratory 3 hours) Letter grade only (A-F).

487. Introduction to Data Communications and
Networking (2)
Prerequisites: ET 286, 286L, 386, 386L or equivalents; corequisite:
ET 487L.
Introduction to data communications fundamentals, peer-to-
peer and client/server network models. Hardware and software
technology. Protocols, networks, relational database technology,
and security. Example applications, tools and development
environments. Cross-overs, modems, middleware. A design project and class
presentation is required.
(Lecture-discussion 2 hours) Letter grade only (A-F).

487L. Introduction to Data Communications and
Networking Laboratory (1)
Prerequisites: ET 286, 286L, 386, 386L or equivalents: corequisite:
ET 487.
Laboratory and programming exercises introducing the students
to data communications and networking technology. Protocols,
networks, relational database technology, and security. Applications
using software/hardware tools and development environments.
(Laboratory 3 hours) Letter grade only (A-F).

488. Microcomputer Systems (2)
Prerequisites: ET 386, 386L; corequisite: ET 488L.
Study of available microprocessors and microcomputer systems.
Topics cover microcomputer architecture, software structure,
assembly language, central processing unit, input/output,
memory manipulation, and interfacing applications in Engineering
Technology.
(Lecture-problems 2 hours) Letter grade only (A-F).

488L. Microcomputer Systems Laboratory (1)
Prerequisites: ET 386, 386L; corequisite: ET 488.
Laboratory experience in microcomputer architecture, assembly
language programing, and interfacing applications in Engineering
Technology. Topics covered are central processing unit function,
memory organization, and input/output operation. Available
microcomputer systems will be used. Applications in Engineering
Technology.
(Laboratory 3 hours) Letter grade only (A-F).

489. Computer Interfacing (2)
Prerequisites: ET 142, 442L, 488, 488L; corequisite: ET 489L.
Study of theories and techniques that are used in peripheral control
and interfacing. Topics covered are serial interfacing, Parallel
interfacing, timing, handshaking, A/D converters, buffering, and
UARTs.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

489L. Computer Interfacing Laboratory (1)
Prerequisites: ET 442, 442L, 488, 488L; corequisite: ET 489.
Laboratory exercises in computer interfacing applications and
design. Available computer system and its assembly language
instructions will be used.
(Laboratory 3 hours) Letter grade only (A-F).

491. Embedded Processors and Systems (2)
Prerequisites: ET 489, 489L; Corequisite: ET 491L.
Embedded microprocessors, embedded systems, development
concepts, principles, and applications. Hardware/software tradeoffs,
interfacing issues, memory sizing, timing, code and power
optimization issues. Application requirements, platform selection,
RISC vs. CISC issues, co-processors vs. ASICs.
(Lecture-discussion 2 hours) Letter grade only (A-F).

491L. Embedded Processors and Systems Laboratory (1)
Prerequisites: ET 489, 489L; Corequisite: ET 491.
Laboratory exercises on embedded system development.
Emphasis will be on application requirements, platform selection,
interfacing, memory sizing, timing, code and power optimization.
Use of development environments and evaluation boards.
(Laboratory 3 hours) Letter grade only (A-F).

492. Computer Controlled Industrial Systems (2)
Prerequisites: ET 280, 280L; corequisite: ET 492L.
Concepts of computer-based control of industrial systems and data
acquisition. Signals and measurements, noise, resolution, signal
conditioning. Software and hardware for data acquisition and
control.
(Lecture-discussion 2 hours) Letter grade only (A-F).

492L. Computer Controlled Industrial Systems
Laboratory (1)
Prerequisites: ET 286, 286L; corequisite: ET 492.
Laboratory exercises on computer-based control of industrial
systems and data acquisition. Software and hardware for data
acquisition and control. Emphasis placed on object oriented
language and creation of graphical user interfaces for data
acquisition, display and control.
(Laboratory 1 hour) Letter grade only (A-F).

494. Applied Systems Development Project (2)
Prerequisites: ET 386, 386L, 487, 487L; Corequisite: ET 494L.
Systems development concepts, principles, and practices to a
comprehensive systems development project. Hands-on approach
is used to analyze, design and document a realistic system.
Actual use of project management, interviewing, forms analysis,
structured methods, behavioral dynamics, walk-throughs, report
writing, and presentations.
(Lecture-Discussion 2 hours) Letter grade only (A-F).

494L. Applied Systems Development Project Laboratory (1)
Prerequisites: ET 386, 386L, 487, 487L; Corequisite: ET 494.
Laboratory exercises on applied systems development. Emphasis
will be on systems development concepts, principles, and practices
to a comprehensive systems development project.
(Laboratory 3 hours) Letter grade only (A-F).

497. Computer Network Technology (2)
Prerequisites: ET 487, 487L Corequisite: ET 497L.
Hardware and software technology as it relates to computer
networking, LAN, WAN environments and access methods,
Ethernet, ATM, Bridges, routers, gateways, and intelligent hubs.
Networking protocols. Security, Load balancing, and the use of
simulation tools in designing networks.
(Lecture-discussion 2 hours) Letter grade only (A-F).

497L. Computer Network Technology Laboratory (1)
Prerequisites: ET 487, 487L Corequisite: ET 497.
Laboratory exercises using hardware and software technology
related to computer networking. Internetworking laboratory,
Ethernet, ATM, Bridges, routers, gateways, and intelligent hubs.
Security, Load balancing, and the use of simulation tools.
(Laboratory 3 hours) Letter grade only (A-F).

498. Manufacturing Engineering Technology Capstone
Project (3)
Prerequisite: Senior standing.
Group project involving analysis, design, testing and production
processes for product manufacture. Economic, market and
capital requirements, manpower analysis. Written reports and oral
presentations required.
(Lecture 2 hours, Activity 2 hours) Letter grade only (A-F).
Career Possibilities

Advertising • Entertainment • Journalism • Law • Management • Marketing • Mass Media (film, radio, television) • Politics • Professional Writing and Editing (creative or technical) • Public Relations • Teaching • Publishing (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction

In the discipline of English, the department's teaching-learning emphasis is on developing and sustaining each student's own critical reasoning, imagination, and expressive skills. Just as literature broadens and deepens one's experience of life, the study and practice of language and writing sharpen and clarify one's thinking. Learning to see and to seek out expressive possibilities of language is important. But, the mass media also adds dimension and meaning to the experiences of life. The course of study for the undergraduate English major enlarges the literary background of students and prepares them for graduate study or careers in a variety of professions.

Students should establish a file folder in the department when they first appear for major advising. Unofficial transcripts from other institutions are needed to establish continuity, waive requirements, or substitute equivalent courses.

In all options for the major, study of a foreign language is recommended. Ideally, acquaintance with a foreign language should begin before university study, but a student can also gain a great deal by beginning language study at the university level and continuing it through upper-division courses. Because most advanced degrees require knowledge of at least one foreign language, students aiming at such degrees should definitely include language study in their undergraduate programs.

Bachelor of Arts in English

While planning a program of courses for the major in English, a student should consider the opportunities and limitations of the different options detailed below. For each option, the official Program Planners are available in the department office. They require faculty consultation and approval for a graduation audit, but students should consult department faculty for advising when choosing a program in English and regularly after making that choice.

For all options, the major in English consists of at least 41 units. Because ENGL 100 satisfies a University general education requirement, it is not part of any English major. Some options permit or require courses from other departments; if approved by a faculty advisor, options may also include other courses outside English. Because some courses meet requirements in several options, many students can change options with no great loss of credit toward the required total.

In rare instances, a student may accelerate completion of the major in English by taking advantage of the department's credit by examination policy. Certain courses may also be waived or substituted for under certain circumstances. Consult a department advisor for the option concerned.

In addition to the degree requirements for the Bachelor of Arts in English, English majors must meet the following requirements for University graduation:

1. Each lower division course counted towards the English major must be completed with a grade of "C" or better. A course in which a grade lower than a "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite.

2. English 380, required of all English majors, must be completed with a grade of "C" or better. If the grade is lower than "C" received, English 380 must be retaken and successfully completed with a grade of "C" or better prior to enrolling in any course for which it is a prerequisite.
Option in Creative Writing
(code ENGLBA02) (120 units)

The Creative Writing option is designed for students who wish to write, as well as study, fiction, poetry, plays, or media scripts. Exposure to traditional and recent literature is also of significant value for anyone seeking to master the forms and conventions of writing creatively for the literary marketplace. (Students seeking a Secondary Credential should complete the Creative Writing emphasis of the English Education Option.)

This option consists of 45 units, 31 of which must be taken in the upper division, including the following:

Lower Division: ENGL 150; 204 or 205, or 206, 250 A, B.

Upper Division: ENGL 300; nine units in creative writing chosen from ENGL 404, 405, 406, 407, 490; three classes chosen from the following classes in recent literature, literary genres, and literary criticism: ENGL 395, 396, 450, 468, 467AB, 469, 473, 475, 476AB, 477AB, 478, 479; electives to make up a total of 45 units chosen from the classes listed above and/or any upper-division English courses.

Option in English Education
(code ENGLBA06) (120 units)

English Education emphases should not be confused with B.A. options or majors in English or other departments, which have significantly different requirements. The English Education option is designed for prospective secondary English teachers and satisfies the state mandated requirement in subject matter competence for the Single Subject Teaching credential. This 92-unit option combines a 40-unit core with a specified emphasis in one of nine areas. All nine areas of emphasis require an additional 12 units of breadth and perspective beyond the core as indicated below.

Students must complete the following core courses for all emphases: ENGL 310, 320, 363, 375, 390, 410, 459, LING 338; ENGL 250A or 250B; ENGL 270A or 270B; one course from the following in Comparative World Literature: CWL 100, 124, 132, 320U, 346, 404, 452/552 or CLSCL101.

General Education courses that will meet California Commission on Teacher Credentialing Recommendations are: (select three units from) THEA 113, 122, or 3241, and (select three units from) COMM 130 or 335.

In addition to meeting the subject matter competence requirement for the Preliminary Single Subject Credential in English, prospective English teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.coe.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the department’s English Education Advisor early to plan their program.

Africana Studies Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): AFRS 140, 415; select three units from AFRS 343A, 343B; select three units from AFRS 180, 206, 240, 346.

Communication Studies Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): COMM 355; select nine units from COMM 309, 331, 335, 352, 355, 411.

Creative Writing Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.


Journalism Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): JOUR 120, 305, 311; select three units from 430, 431.

Language and Linguistics Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): select three units from LING 420, 421, 433; select three units from LING 485 (also listed as EDF 485), LING 486; select three units from LING 425 (also listed as ANTH 421), LING 472; select three units from ENGL 435, LING 460.

Literacy and Composition Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.


Literature Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): select three units from ENGL 450 series; select three units from ENGL 470 series; select three units from ENGL 318I, 385, 386, 390; select three units from any course in 440 series; any course in 450 series different from above; any course in 460 series; any course in 470 series different from above; any course in 480 series other than ENGL 482 or 498.

Theatre Arts Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.


World Literature Emphasis
Students are required to complete the core of forty (40) units and twelve (12) units to provide breadth and perspective.

Breadth and Perspective (12 units): select three units from CWL 101, 132, 452, CLSCL 101; select three units from CWL
330A, 330B; select three units from CWL 103, 104, 334, 402, 403, 406, 440; select three units from CWL 414I, 422I, 431, 432, 437, 438; CLSC 311, 312I, 420.

**Option in Literature (code ENGLBA01) (120 units)**

The Literature option is designed for students who desire a thorough grounding in English and American literature and is planned for those planning on graduate study in English. (Students seeking a Secondary Credential should complete the Literature emphasis of the English Education option.)

This option consists of 46 units, 27 of which must be taken as the upper division, including the following:

Lower Division: ENGL 180, 250A, 250B, 270A, 270B;

Upper Division: ENGL 380; select two courses from the 450 series or one course from the 450 series and one course from the 460 series (excluding 469)—one of these two courses must be in English literature before 1900; one course from the 470 series (excluding 479); one senior seminar (469, 479, 489); electives to make up a total of 46 units.

**Option in Rhetoric and Composition (code ENGLBA04) (120 units)**

The Rhetoric and Composition option is designed for students who desire to write for multiple readers and to analyze and interpret texts. This option prepares students for teaching on virtually all levels, for graduate study in English, and for professions that require intensive writing and communication skills. (Students seeking a Secondary Credential should complete the Literacy and Composition emphasis of the English Education option.)

This option consists of 45 units, 32 of which must be upper division, including the following:

Lower Division: ENGL 180 or equivalent; select two courses from ENGL 250A, 250B, 270A, and 270B;

Upper Division: ENGL 380; select two courses from ENGL 300, 317, 410, and 435; select seven courses from ENGL 310, 320, 327, 363, 404, 411, 416, 417, 418, 419, 423, 426, 436, 437, 488, and 497; select upper-division English course electives to reach a total of 45 units.

Note: students are strongly encouraged to take ENGL 102 or an English department equivalent at a transfer school for this option.

**Option with Special Emphasis (code ENGLBA05) (120 units)**

Some students wishing to major in English have special interests or career objectives so different from those for which the other options are designed that another pattern of courses would better serve their personal educational needs. For those students, the Special Emphasis option offers an opportunity to pursue individually designed 41-unit programs of study. Student programs may center on technical writing, for example, or other writing goals; they may focus on American or English literature or literature in a particular genre, a particular historical period, or a particular theme.

A Special Emphasis program may include courses outside the Department of English closely related to a student's focus in English studies. At least 21 units must be earned in the Department of English at CSULB and at least 21 units of the program must be upper division. For degrees with more than four courses in any single other department, students should consider a Special Major in the Interdisciplinary Studies Program.

Students wishing to take the Special Emphasis option should prepare a detailed program proposal early in their college careers. Such programs will be recognized only if planned in consultation with a faculty advisor in the Department of English, approved in writing by the advisor, given signed approval by the Department Chair, and carried out under the advisor's continuing supervision. Students must complete at least 15 upper-division units applicable to their Special Emphasis program after it has been officially approved.

The only specific course requirements and limitations are the following: ENGL 180, Composition and Literature (3 units); ENGL 380, Approaches to English Studies (4 units). Electives in English and related fields are needed to make up a total of 41 units. These electives may not include ENGL 100 or 101.

**Minor in English**

**Creative Writing (code ENGLUM01)**

The minor in English (Creative Writing) requires a minimum of 20 units which must include the following: ENGL 180 or equivalent; three units from ENGL 204, 205 or 206; three units from ENGL 404, 405 or 406; three units from ENGL 385 or 386; and eight units of electives from ENGL 359, 404, 405, 406, 407, 432, 459, 466, 467/A81, 474, 475, 476, 477/A/B, 499. (Note: ENGL 404, 405, 406 and 407 may be repeated for credit to a maximum of six units by consent of instructor.)

**Literature (code ENGLUM03)**

The Literature minor in English requires a minimum of 20 units and must include: ENGL 180 or equivalent; eight units from ENGL 250A, 250B, 270A, 270B; and nine elective units from upper-division literature classes in the English department (including at least one class at the 400 level).

**Rhetoric and Composition (code ENGLUM02)**

The Rhetoric and Composition minor in English requires a minimum of 20 units and must include: ENGL 310, 497, LING 420, and 421. Also recommended are three units from ENGL (or LING) 423 or 426.

**Special Emphasis (code ENGLUM04)**

The Special Emphasis minor in English requires a minimum of 21 units in a program developed, approved, and supervised in the same manner as the Special Emphasis Option. ENGL 180 or equivalent is required of all students, with the rest of the program constructed in consultation with a faculty advisor. At least nine upper-division units must be taken after program approval, and at least 11 units must be earned in the Department of English at CSULB.

**Certificate in Teaching English as a Second Language (code ENGLCT02)**

The Certificate Program in Teaching English as a Second Language is conducted by the Linguistics Department faculty. Please refer to the Linguistics sections of this Catalog.
Certificate in Technical and Professional Communication (code ENGLCT01)

The Department of English offers a Certificate in Technical and Professional Communication to students interested in careers in writing and editing. Application forms and advising materials may be obtained from the Department office.

Prerequisites
1. Formal consultation with a faculty advisor in the Technical and Professional Communication (TPC) Certificate program;
2. Submission of an application to enter the program, supported by transcripts;
3. Upper division or post-baccalaureate standing at CSULB with a grade point average of at least 2.75 overall;
4. Admission to a degree program in this university or possession of a degree from an accredited university;
5. Successful completion of ENGL 317, Technical Communication, with a letter grade of "C" or higher.

General Requirements
1. A baccalaureate degree, which may be taken concurrently with the Certificate in Technical and Professional Communication;
2. A minimum of 24 units in courses approved for the Certificate Program at this University, preferably completed within 10 years of the first credit granted toward the Certificate (consult an advisor concerning any transfer or extension credit that may be allowable);
3. A letter grade of "C" or higher in every course in the Certificate program (a grade of "CR" is acceptable in no more than one course);
4. Completion of a program of courses in Areas I through IV, developed in consultation with an advisor in the Technical and Professional Communication Certificate program, and approved by the Program Director and the Dean of the College of Liberal Arts (or the Dean’s designee);
5. Demonstrations (in or outside the program of courses) of competence in the use of computers and graphic media;
6. Development of a portfolio of reports, written and edited by the student during enrollment in the Certificate program, for review and approval by faculty in the Technical and Professional Communication Certificate program (required for a grade in ENGL 492AV, Area IV).

Course Requirements
For each of the following courses, TPC Certificate students have been granted enrollment rights equal to those of students majoring in the Department offering the course. Substitutions are possible, especially in more advanced courses, with approval by the Program Director.
Area I: Technical and Professional Writing (9 units): ENGL 417, 418, and one from the following courses: ART 307; ENGL 419; GEOL 420; IS 301; JOUR 316; 319B.
Area II: Language Studies (4 units): ENGL 416, 320.
Area III: Electives chosen from the following (minimum 8 units):
Analytical Reading: COMM 301; ENGL 380, 423, 488; GEOG 380; HIST 400; NSCI 375; PHIL 381; Business/Professional Skills: ACCT 201; BLAW 220; COMM 334, 335, 344; JOUR 370; MKTG 300, 330.

Computer Applications: CECS 174; JOUR 331; MGMT 426; NSCI 200; IS 300; SOC 260;
Creative Writing: ENGL 404, 405, 406, 407; FEA 304, 404; THEA 380;
Intercultural Communication: ANTH 412, 413; COMM 330; MKTG 480;
Visual Communication: ET 170; GEOG 200; JOUR 305; MAE 172;
Area IV: Practical Writing (3 units): ENGL 491 (1 or more units), 492A or B (2 or more units). No grade in ENGL 491 will be assigned without an approved portfolio, as indicated in Paragraph 6, General Requirements.

Graduate Programs

The Department of English offers two graduate degrees, an M.A. in English and an MFA in Creative Writing. Teaching assistantships are available in both. In addition, the Department’s tutoring program, the Writer’s Resource Lab, employs a number of graduate and undergraduate students each semester. Application information may be obtained from the Department office, (562) 985-4223.

Master of Arts in English (code ENGLMA01)
The Department of English offers graduate study leading to the Master of Arts degree. The candidate must satisfy the general requirements stated in this Catalog as well as the specific departmental requirements stated here and, more fully, in the Master of Arts brochure issued by the department (copies of which are available upon request). Applicants must submit to the University’s Office of Admissions and Records a graduate application (available at that office or on-line). Applicants must also submit two sets of transcripts from all colleges and universities attended. One set must be submitted to the Office of Enrollment Services and another set must be sent directly to the Department of English. The deadline for submitting an application for Fall semester is May 1; the deadline to apply for Spring is October 15.

Prerequisites
An applicant may be admitted to the M.A. program in English only after satisfying University requirements for admission and the following prerequisites to this degree:
1. A Bachelor of Arts degree in English from an accredited institution or a bachelor’s degree from an accredited institution with 24 units of upper-division English courses that offer a broad coverage of English and American literature.
Any deficiencies will be determined by the Department Graduate Advisor in consultation with the Graduate Studies Committee. Courses used to remove course or unit deficiencies may not be included in the M.A. program.
2. A 3.2 GPA in upper-division English courses.
3. All applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must receive a minimum score of 600 on the Test of English as a Foreign Language (TOEFL) (applicants taking the
Computer-Based Test of English as a Foreign Language must present a score of 250 or above; applicants taking the Internet-Based Test of English as a Foreign Language must present a score of 100 or above).

**After Admission to Program**

Students must be formally admitted to the program before they can enroll in ENGL 696, which is corequisite or corequisite to all other 600-level courses.

**Advancement to Candidacy**

1. The student must satisfy the general requirements of the University, including fulfilling the Graduation Writing Assessment Requirement (GWAR).
2. The student’s M.A. program must be approved by a faculty committee, the Department Graduate Advisor, and the Department Chair before submission to the Associate Dean of Liberal Arts.
3. Advancement is possible after completion of six units toward the MA degree. Students must be advanced to candidacy at least one semester before they intend to graduate, before the deadline to file for graduation that semester. If a student is writing a thesis, he or she must be advanced before any thesis units are taken.

**Requirements**

1. A minimum of 30 units of graduate and approved upper-division courses (see MA Handbook and websites for list of approved undergraduate courses) including 24 units in English;
2. A minimum of 20 units in the 600 series in English at this University, including ENGL 696, which is to be completed before or concurrently with other 600-series courses. A graduate student will not be granted credit for 600-series courses unless admitted to the M.A. program;
3. A minimum of one seminar in the 600 series in English literature before 1800;
4. A foreign language requirement, which may be fulfilled in one of the following ways:
   A. completing college course work in a foreign language equivalent to sophomore proficiency (normally 201B at this University) with a “C” or better;
   B. completing college course work in a foreign language equivalent to freshman proficiency (normally 101B at this University) with a “C” or better and completing either ENGL 550 or ENGL 551 with a “B” or better;
   C. passing a special examination or demonstrating native proficiency in any foreign language accepted by the Graduate Studies Committee;
5. Successful completion of a final comprehensive examination in a specified specialty area. (Students who fail the examination may retake it once only.) A thesis may be written in lieu of the examination;
6. Appropriate filing for Graduation Check for Diploma.

**Master of Fine Arts in Creative Writing (code ENGLMF01)**

The Master of Fine Arts degree in Creative Writing is the recognized terminal degree which offers the minimum professional training deemed necessary by the major schools in the United States for university and college teaching and for positions in the publishing industry. It is also the degree most frequently held by professional writers.

The Department of English at California State University, Long Beach is a fully accredited program that meets the standards of the State of California.

**Criteria for Admission to the Program**

1. Students applying for admission to the MFA degree program generally have completed a bachelor’s or master’s degree in English from an accredited institution with a 3.0 GPA in upper-division English courses, most university admission requirements, and submit evidence of creative ability in fiction or poetry (10 pages poetry, 20-30 pages fiction). For each annual cycle, applications are due by February 15, when review will begin.
2. When an undergraduate degree has been completed in a program having different requirements from those of CSULB or in some field other than English, additional preparation may be required before the student can be considered for classified status in the degree program.
3. At the time of the student’s conditional classification into the program, an examining diagnostic committee consisting of at least two instructors in the student’s field of specialization and at least one other faculty member must approve and evaluate the student’s work no later than the end of his/her first full year in residence and judge whether the student should continue in the program.
4. In order to obtain a full classified status, the student must obtain satisfactory evaluation from his/her committee at the end of the first full year in residence. Both the student’s coursework and the student’s portfolio will be evaluated.

The appeals procedure for unfavorable portfolio evaluation is as follows:

If a student feels that his/her work has been unfairly evaluated, that student has recourse any time to discuss the matter informally with the MFA Coordinator in order to resolve the issue. If the issue cannot be resolved on that basis, the following procedure shall be followed:

A. The student shall present a written appeal to the MFA Coordinator.
B. Within ten (10) working days of receipt of a written appeal by a student, the MFA Coordinator shall refer the appeal to an ad hoc committee consisting of three tenured creative writing faculty not involved with the issue.
C. The committee shall meet in formal sessions holding hearings at separate times for the student and for the faculty involved to gather information and evidence relevant to the issue.
D. After deliberation, the committee shall present its findings to the MFA Coordinator within thirty (30) working days from the origination of the committee. (Working days do not include periods of time between semesters.)
E. The MFA Coordinator shall inform the concerned student in writing of the committee’s decision.
5. Advancement to candidacy
   A. Attain fully classified status.
   B. Remove all undergraduate deficiencies as determined by the graduate advisor, the department chair, and the dean of graduate studies.
   C. Fulfill the OWAR.
   D. Submit a program of courses for approval by the student's faculty advisor.

6. Up to 24 units of credit from a Master of Arts program in Creative Writing may be acceptable after review and approval by the faculty evaluation committee.

7. Requirements for the Master of Fine Arts in Creative Writing
   A. The MFA degree is a sixty-unit degree normally requiring full-time residency. Course requirements are arranged according to the following structure:
   - Core Courses: (39 units chosen on the basis of consultation with a faculty advisor, to include): ENGL 505A,B or 506A,B; 509A,B; 604A,B; 500; 550; 560; 690; 698.

B. Both fiction and poetry specializations share a common core of courses which offer study in literary history, theory, and research. The remainder of the course offers students the opportunity to develop additional skills in their particular area of related interest. The program culminates in a major creative project (novel, short story collection, or poetry collection) of publishable quality.

Courses (ENGL)

To encourage clarity and uniformity in the reporting of scholarship, students in all English courses are expected to learn and use standard methods of citation and documentation. For literary and critical study, the standard format is the documentation system prescribed by the Modern Language Association, detailed in the MLA Handbook and simplified in many beginning textbooks in literary study. At the instructor's discretion, other methods may be used in courses in composition, technical communication, literary studies, and other classes required for the English Education option.

LOWER DIVISION

Please check the section on "Application Procedures and Admissions Requirements" of this Catalog for CSULB system-wide writing proficiency requirements.

1. Writing Skills (3)
   Prerequisite: Students who score 147 or below on the English Placement Test and who have not taken equivalent courses in another department are eligible for enrollment in this course.
   Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence, and paragraph. Methods for developing and organizing ideas in coherent essays. Conventional mechanics, spelling, and grammar.

Does not count toward graduation, but does count toward course load.
Credit/No Credit grading only.

1. E. Writing Skills (3)
   Students who score 147 or below on the English Placement Test and who have not taken equivalent courses in another department, are eligible for enrollment in this course.
   Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence and paragraph. Methods for developing and organizing ideas in coherent essays. Conventional mechanics, spelling, and the grammar of standard written English.

Does not count toward graduation, but does count toward course load. Credit/No Credit grading only.

100. Composition (3)
   Prerequisites: A recorded total score of 151 or above on the English Placement Test, or credit in ENGL 1 (or its equivalent) or consent of the instructor.
   Writing, revising, and editing non-fiction prose, with emphasis on exposition and argument. Critical reading strategies for research. Satisfies the baccalaureate degree requirement for one course in written composition in English.
   Not open for credit to students with credit in ENGL 100W, ASAM 100, AFRS 100, CHLS 104.

101. Composition (3)
   Prerequisite: ENGL 100.
   Writing expository prose, with emphasis on research paper.

102. Critical Reading and Writing (3)
   Prerequisite: ENGL 100 with a minimum grade of "C-".
   Analytical reading and persuasive writing with emphasis on logic and argumentation.
   Not open for credit to students with credit in ENGL 200.

180. Appreciation of Literature (3)
   Prerequisite/Co-requisite: One Foundation course.
   Study of works representing the scope and variety of themes and types of imaginative literature. Introduction to the major literary genres and to methods of critical expository writing.
   Not open for credit to students with credit in ENGL 184.

204. Introduction to Creative Writing: Creative Nonfiction (3)
   Prerequisites: ENGL 100; completion of GE Foundation requirements.
   Practice in the basic elements of creative nonfiction, including description, dialog, and framing.

205. Introduction to Creative Writing: Fiction (3)
   Prerequisites: ENGL 100; completion of GE Foundation requirements.
   Practice in the basic elements of fiction writing: character sketch, plot development, description, dialog.

206. Introduction to Creative Writing: Poetry (3)
   Prerequisites: ENGL 100; completion of GE Foundation requirements.
   Theory and techniques of poetry. Practice in creative work, with group discussions and individual conferences.

250A,B. Survey of English Literature (4,4)
   Prerequisites: ENGL 100; completion of GE Foundation requirements.
   Representative selections from English writers to and since the late eighteenth century.

270A,B. Survey of American Literature (4,4)
   Prerequisites: ENGL 100; completion of GE Foundation requirements.
   Representative selections from American writers to and since about 1865.

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283. Science Fiction (3)
The literature of science fiction, from Frankenstein and H.G. Wells to the present, emphasizing the relevance of science and technology to literary fantasy.

UPPER DIVISION

ENGL 100 or its equivalent is a prerequisite for all upper division courses.

An "F" grade for a course number means the course is acceptable for Interdisciplinary Credit in General Education.

300. Advanced Composition (3)
Prerequisites: Completion of GE Foundation requirements and upper-division standing.
Study and apply rhetorical strategies of invention, arrangement, and style to write expository, analytic, and argumentative prose; examine how evidence is produced and presented in genres from different academic disciplines, from civic and workplace literacy, and from popular media.

301A. English Proficiency (3)
Prerequisites: ENGL 100 or equivalent.
Intermediate course in English usage with emphasis on building proficiency in oral and written language.
Enrollment limited to students needing language development beyond skills acquired in ENGL 100, as assessed by scores on the Writing Proficiency Exam. May be repeated to a maximum of 6 units. Not applicable to credit in any degree program of the Department of English.

301B. English Proficiency (3)
Prerequisites: ENGL 100 or equivalent.
Advanced course in English usage with emphasis on building proficiency in written language.
Enrollment limited to students needing language development beyond skills acquired in ENGL 100, as assessed by scores on the Writing Proficiency Exam. May be repeated to a maximum of 6 units. Not applicable to credit in any degree program of the Department of English.

303. Applied Composition: Explorations in Children's Writing (4) F,S
Advanced composition course incorporating the study of the evolution of written discourse and emergence of rhetorical structures in the writing of preadolescents.
Includes a 40-hour tutorial/research component. Discussion/Laboratory.

310. Applied Composition (4)
Prerequisite: ENGL 101 or 317 or a baccalaureate degree.
Intensive practice in writing, correcting, and evaluating compositions, with specific reference to contemporary classroom situations and problems.
Includes a 30-hour tutorial component in which students work as composition tutors. Required for all English Education majors.

317. Technical Communication (3)
Prerequisites: Completion of GE Foundation requirements, upper-division standing, and a previous composition course, i.e., ENGL 100, 101, 102, 300, or equivalents.
Expository writing on technical subjects dealt with in industry, science, government, and the academy. Introduction to long and short forms including reports, proposals, manuals, and journal articles, emphasizing the analyst's formal paper or technical report.

318I. Theory of Fiction and Film (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examination of narrative methods and conventions of American and British fiction and film; consideration of relationships between artistic structure of fiction and film; study of theoretical and practical approaches to fiction and film.
Same course as FEA 318I. Not open for credit to students with credit in FEA 318.

320. English Grammar (4)
Advanced study in the principles of English grammar.

327. Essentials of the English Language (3)
Prerequisite: ENGL 100 or its equivalent.
Introduction to the essentials of English language study for credential candidates, including the history of the English language, key models of English grammar, and applied topics ranging from semantics and dialect study to current research in the teaching of English.
Not open for credit to students with credit in LING 327.

337. Technology in the English Classroom (3)
Focuses on issues in the use of computer-based technologies in society, basic components and operations of computer-based technology, computer applications/programs, and video tape/film for teaching problem-solving, critical thinking, writing, and literature.
Meets Title 5 computer-education requirements for the Single Subject, Clear Teaching Credential in English and the Multiple Subject, Clear Teaching Credential with English Concentration.

340. American Indian Literature (3)
Prerequisite: Completion of GE Foundation requirements.
Analysis of the written and oral literary traditions developed by American Indians. Range of works studied: oral history, tales, myths, song, prayer, poetry, short story, and novel.
Same course as AIS 340. Not open for credit to students with credit in AIS 340.

359. Postcolonial Literature (3)
Prerequisite: Upper-division status.
Survey of English language writers from former colonies of Great Britain who have made major contributions in all literary genres.

363. Shakespeare I (4)
Prerequisites: ENGL 100; completion of GE Foundation requirements.
Principal plays of Shakespeare.

372I. Comedy in the United States (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Study of the history of American comedy from its beginnings to the present. Focuses on literature, but also on American traditions of humor on stage, in film, in song, and in signs. Explores theories of comedy.

375. American Ethnic Writers (3)
Prerequisites: ENGL 100; completion of GE Foundation requirements.
Survey of American writers of various non-European ethnic backgrounds who have made major contributions in all literary genres.

385. Approaches to English Studies (4)
Prerequisite: ENGL 100 or equivalent.
Advanced course in English Studies covering research methods: approaches to literary, rhetorical, and pedagogical topics; critical and literary terminology, genre, and advanced skills in writing and analysis.
Note: English majors must consult with their advisors because this course should be taken by the first semester of the junior year.

382. Women and Literature (3)
Prerequisite: Completion of Foundation requirements.
Survey of literature by women authors writing in English, across a range of historical periods; examination of works in various genres.
that present the complexity of women’s lives and the challenges of female authorship; exploration of feminist critical approaches.

Same course as WGSS 382. Not open for credit to students with credit in WST 382 or WGSS 382.

384. Principles of Literary Study (3)
Prerequisite: ENGL 180.
Fundamental issues of literary study such as literary history, literary forms; themes and conventions; major critical approaches. Intensive written practice in literary analysis.

385. The Short Story (3)
Prerequisites: ENGL 100; completion of GE Foundation requirements.
Short story as a literary genre, with emphasis on analysis of individual stories.

386. Poetry (3)
Prerequisites: ENGL 100; completion of GE Foundation requirements.
Poetry as a literary genre, with emphasis on analysis of individual poems.

399. Modern Drama (3)
Continental, English, and American drama from ibsen to the present.

404. Creative Writing: Creative Nonfiction (3)
Prerequisite: ENGL 204 or consent of instructor.
Writing creative nonfiction, with a detailed study of published models and with an emphasis on the creative process. May be repeated to a maximum of 6 units.

405. Creative Writing: Short Story (3)
Prerequisite: ENGL 205 or consent of instructor.
Writing short stories, with a detailed study of published models and with emphasis on the creative process. May be repeated to a maximum of 6 units.

406. Creative Writing: Poetry (3)
Prerequisite: ENGL 206 or consent of instructor.
Writing poetry; with a detailed study of published models with emphasis on the creative process. May be repeated to a maximum of 6 units.

407. Creative Writing: Novel (3)
Prerequisite: Consent of instructor.
Writing fiction, with a detailed study of published models and with emphasis on the creative process. May be repeated to a maximum of 6 units.

410. Theory of Writing and Literacy (3)
Prerequisites: ENGL 309 or 310 or consent of instructor.
Focuses on several cross-disciplinary theories of producing written discourse. Studies how writing is learned, taught, viewed by the public, and used in social and academic interchange.

411. Research Methods in Rhetoric and Composition (4)
Introduction to interdisciplinary research methods in Rhetoric and Composition. Focuses on methods that have been motivating research since 1985, including archival, case study, ethnographic, historiographic, and teacher research. Intensive practice in conducting and writing research for interdisciplinary and/or public audiences.

416. Technical Writing (4)
Prerequisite: Completion of GE Foundation requirements.
Introduction to writing of technical and business communication formats such as manuals, brochures, booklets, and newsletters. Topics include principles of sentence-level clarity and style, factual accuracy, and of document design and production in professional settings.

417. Proposal Writing (3)
Prerequisite: Completion of GE Foundation requirements.
Writing of proposals in their various forms as letters, memos, grant applications.

418. Manual Writing (3)
Prerequisite: Completion of GE Foundation requirements.
Writing of original manuals of various types in technical and professional fields. Company publications will be studied as models.

419. Writing in Science, Social Science, and Technology (3)
Prerequisite: Completion of GE Foundation requirements.
Introductory practice in writing on topics in science and literature. Contemporary examples will be studied as models.

421/521. Semantics (3)
Study of meaning in language.
Same course as LING 421. Not open for credit to students with credit in LING 423.

426/526. History of the English Language (3)
Development of the English language from its beginnings to the present day.
Same course as LING 426. Not open for credit to students with credit in 426.

432. Arthurian Literature: Medieval to Modern (3)
Examination of the genesis, development, and popularity of stories about Sir Lancelot and his knights from the earliest medieval texts to modern treatments of the legend.

435. Teaching Composition (3)
Prerequisite: Consent of instructor.
Intensive examination and study of composition teaching practices, research and evaluation in public schools, including community colleges.

436. Theories and Practices of Reading (3)
Intensive investigation of theories and practices of reading with attention to how experienced and inexperienced readers construct texts.

437. Technology and Teaching Language Arts (3)
Prerequisites: ENGL 100 and 337 or consent of instructor.
Intended for practicing teachers. Methods of integrating computer-based technology in instruction of writing, reading, and literature. Assessment and implementation of technological resources in place at students’ school sites or other settings. Hybrid course with face-to-face and electronic class interaction.

441. Women Writers of the Harlem Renaissance (3)
Prerequisites: ENGL 100 and upper-division status or consent of instructor.
Explores literature and lives of women authors of American Harlem Renaissance Period of 1920s. Examines critical reception, relative obscurity, and current re-discovery of these writers. Utilizes theoretical essays, biographical narratives, historical documents, and media images.
Same course as WGSS 441. Not open for credit to students with credit in WST 441 or WGSS 441.

442. Sexing Chicana Literature (3)
Prerequisites: ENGL 100 and upper-division status or consent of instructor.
Analyzes how Chicana authors explore race, class, and gender. Focuses on use of sexuality, particularly with regard to cultural and literary stereotypes vs. experience and aesthetic practice. Themes will include desire, identity, empowerment through “traditional” roles, and violence and the body.
Same course as WGSS 442. Not open for credit to students with credit in WST 442 or WGSS 442.

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444. Literature and Environment (3)
Prerequisites: Completion of GE Foundation, one or more Explorations courses, and upper-division status.
Literature that focuses on the relationship between humans and the environment. Emphasis on how environmental themes represent nature, raise awareness of ecological issues, and encourage social change. Service-learning requirement connects environmental literature with activism and community involvement.

451/554. Medieval Literature of the British Isles (3)
Representative selections of Old and Middle English prose and poetry read for the most part in modern English, including Beowulf, the romance, medieval drama, Chaucer, and the ballad.

452/552. Literature of the Renaissance (1500-1603) (3)
Prose and poetry of Marlowe, Sidney, Raleigh, Spenser, and other predecessors and contemporaries of Shakespeare, noting the influence of Humanism and the emergence of literary identity.

453/553. Literature of the Late Renaissance (1603-1660) (3)
Prose and poetry of Marlowe, Jonson, and their contemporaries. 

455/555. English Literature of the Enlightenment (1660-1798) (3)
Prose and poetry of Swift, Dryden, Pope, Johnson, Boswell, and their contemporaries, with emphasis on major satires such as Gulliver’s Travels and The Rape of the Lock.

456/556. English Literature of the Romantic Period (1798-1832) (3)
Prose and poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, their contemporaries, emphasizing the Romantic spirit, theories of literary art, and the concept of the self.

458/558. English Poetry and Prose of the Victorian Age (1832-1900) (3)
Prose and poetry of Tennyson, Browning, Arnold, Carlyle, Mill, and others, emphasizing literary, social, and political issues, and religious controversies.

459/559. English Literature of the Twentieth Century (1900-Present) (3)
Prose and poetry of Shaw, Conrad, Yeats, Lawrence, Joyce, Woolf, and others, emphasizing artistic experimentation and the development of modern value systems.

462/562. Chaucer (3)
Works of Geoffrey Chaucer in Middle English.

463. Shakespeare II (3)
Prerequisite: ENGL 363.
Advanced study of some of the plays of Shakespeare.

465/566. Irish Literature in English (3)
Major Irish authors from the Celtic Revival to the present. The literature will be placed in its historical and political contexts, paying particular attention to the relationship between politics and literature, the status of women, and questions of national identity.

467A/B.567A.B. The English Novel (3.3)
History and development of long prose fiction in the British Isles to and since 1832.

468/568. English Drama (3)
Readings from the history of English drama, excluding Shakespeare, including Marlowe, Jonson, and Restoration comedy.

469. Critical Studies in Major English Writers (4)
Prerequisites: At least junior standing and 12 units of upper-division English (excluding ENGL 360).
Intensive study of one to three major authors.

May be repeated to a maximum of 8 units with different authors, but no more than 4 units may be used to satisfy requirements for English major. Topics to be announced in the Schedule of Classes.

470. American Ethnic Literatures (3)
Prerequisite: ENGL 375 or consent of instructor
Advanced course in the examination of issues in the field of American ethnic writing.

472/572. American Literature: 1820-1865 (3)
Major authors and works, along with newly recovered texts, from the period that is often called the "American Renaissance." 

473/573. American Literature: 1865-1918 (3)
Developments in poetry, the novel, the short story, and non-fiction prose in the United States between the Civil War and World War I.

474/574. Twentieth-Century American Literature (3)
American literature from about 1914 to the present.

475/575. The American Short Story (3)
History and development of the short story and its criticism in the United States.

476A.B.576A.B. American Poetry (3.3)
History and development of poetry and its criticism in the United States to and since 1945.

477A/B.577A.B. The American Novel (3.3)
History and development of the novel and its criticism in the United States to and since the 1950s.

478/578. American Drama (3)
History and development of drama and its criticism in the United States.

479. Critical Studies in Major American Writers (4)
Prerequisites: At least senior standing and 12 units of upper-division English (including ENGL 360).
Intensive study of one to three major American authors.
May be repeated to a maximum of 8 units with different authors, but no more than 4 units may be used to satisfy the requirements for the English major. Topics to be announced in the Schedule of Classes.

481. Children’s Literature (3)
Survey of literature suitable for children.

482. Literature for Adolescents (4)
Prerequisite: One college course in literature.
Survey of literature suitable for adolescents. Includes a 20 hour field experience in which students work with local secondary school students as reading mentors.
Required of all English Education majors.

484/584. Contemporary Literary Theory (3)
Study of the principal theories of literature including structuralism, hermeneutics, theory of genre, and theory of criticism.

488. Topics in Rhetoric and Writing Studies (3)
Prerequisite: ENGL 100
Intensive study of a special topic in the field of rhetoric, composition, and writing studies.
May be repeated to a maximum of 12 units with different topics in the same semester, but no more than 8 units may be applied to the English major. Topics to be announced in the Schedule of Classes.

489. Critical Studies in Major Topics in Literatures Written in English (4)
Intensive study of a major topic in literatures written in English.
May be repeated to a maximum of 8 units with different topics in different semesters, but no more than 4 units may be used to satisfy the requirements for the English major. Topics to be announced in the Schedule of Classes.

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491. Applied Technical Writing (1-3)
Prerequisite: Admission to Certificate Program in Technical and Professional Communication.
Writing and editing technical reports and papers. Independent production of a report in a technical or scientific area under faculty supervision.
May be repeated to a maximum of 4 units.

492A-B. Internship Technical - Professional Writing and Editing (1-3)
Prerequisite: Admission to Certificate Program in Technical and Professional Communication.
At least 90 hours writing and editing with cooperating agencies and companies on- and off-campus under direction and with evaluation of faculty in consultation with supervisors of the participating agency or company.
May be repeated to a maximum of 4 units.

496. California Writing Project (1-4)
Specifically designed for teachers, prospective teachers, school administrators and writers. Successful practices in teaching writing; writing and responding to others' writing; theory and research behind successful literacy training.
CSULB-South Basin Writing Project is an affiliate of both the California and National Writing Projects.

497. Directed Studies in Composition (3)
Prerequisite: One upper-division writing course in English or consent of instructor.
Theory and practice of writing and language instruction. Recommended for prospective K-12 and college-level teachers. On-site participation in an educational setting required as a basis for research project.

498. Topics in English (3)
Intensive exploration of topics in language and literature. May be repeated to a maximum of 12 units with different topics in the same semester, but no more than 8 units may be applied to the English major. Topics to be announced in the Schedule of Classes. Course fee may be required.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study under direction of a faculty member. May be repeated to a maximum of 4 units. Not applicable toward the Master of Arts in English.

GRADUATE LEVEL
See Comparative World Literature and Classics Department for other course offerings applicable to the M.A. in English.

505A. Seminar in Fiction Writing (4)
Prerequisite: Admission to the MFA in Creative Writing.
Discussion, criticism, and detailed evaluation of works in progress. Letter grade only (A-F).

505B. Seminar in Fiction Writing (4)
Prerequisite: Admission to the MFA in Creative Writing and ENGL 505A.
Discussion, criticism, and detailed evaluation of works in progress. Letter grade only (A-F).

506A. Seminar in Poetry Writing (4)
Prerequisite: Admission to the MFA in Creative Writing.
Discussion, criticism, and detailed evaluation of works in progress. Letter grade only (A-F).

506B. Seminar in Poetry Writing (4)
Prerequisites: Admission to the MFA in Creative Writing and ENGL 506A.
Discussion, criticism, and detailed evaluation of works in progress. Letter grade only (A-F).

510.410. Theories of Writing and Literacy (3)
Prerequisites: ENGL 309 or 310 or consent of instructor.
Focuses on several cross-disciplinary theories of producing written discourse. Studies how writing is learned, taught, viewed by publics, and used in social and academic interchange. Letter grade only (A-F).

511.411. Research Methods in Rhetoric and Composition (4)
Introduction to (inter)disciplinary research methods in Rhetoric and Composition. Focuses on methods that have been motivating research since 1965, including archival, case study, ethnographic, and teacher research. Intensive practicum in conducting and writing research for (inter)disciplinary and/or public audiences.
Letter grade only (A-F).

523.423. Semantics (3)
Study of meaning in language. Letter grade only (A-F).

526.426. History of the English Language (3)
Development of the English language from its beginnings to present day.
Letter grade only (A-F).

535. Theories and Practicas in Composition (3)
Prerequisite: ENGL 415 or consent of instructor.
Focuses on formation of composition studies in the last half of the 20th century. Studies relationships among theories, practices, and research concerns with the teaching of writing, particularly at the college level.
Letter grade only (A-F).

537. Special Topics (3)
Offered for in-service teachers. Emphasis on teaching and research in special, timely topics related to the teaching of English.
May be repeated to a maximum of 6 units with different topics in the same semester. Topics to be announced in the Schedule of Classes. Letter grade only (A-F).

550. Old English Language and Literature (4)
Prerequisite: Consent of instructor.
Introductory and other representative selections from Anglo-Saxon literature in the original language.
Letter grade only (A-F).

551. Middle English Language and Literature (4)
Prerequisite: Consent of instructor.
Choas and other representative selections from Middle English literature in the original language.
Letter grade only (A-F).

552.452. Literature of the Renaissance (1500-1603) (3)
Prose and poetry of Marlowe, Sidney, Raleigh, Spenser and other predecessors and contemporaries of Shakespeare, noting the influence of Humanism and the emergence of literary identity. Letter grade only (A-F).

553.453. Literature of the Late Renaissance (1603-1660) (3)
Poetry and prose (chiefly non-dramatic) of Milton, Bacon, Jonson, Donne and the "Metafysicals" and their contemporaries. Letter grade only (A-F).

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554/451. Medieval Literature of the British Isles (3)
Representative selections of Old and Middle English prose and poetry read for the most part in modern English, including Beowulf, the romance, medieval drama, Chaucer, and the ballad.
Letter grade only (A-F).

555/455. English Literature of the Enlightenment (1660-1798) (3)
Prose and poetry (chiefly non-dramatic) of Swift, Dryden, Pope, Johnson, Boswell, and their contemporaries, with emphasis on major satirists such as Gulliver's Travels and The Rape of the Lock.
Letter grade only (A-F).

556/456. English Literature of the Romantic Period (1798-1832) (3)
Poetry and prose (chiefly non-dramatic) of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries, emphasizing the modern Romantic spirit, theories of literary art, and the concept of the self.
Letter grade only (A-F).

558/458. English Poetry and Prose of the Victorian Age (1832-1900) (3)
Poetry and prose of Tennyson, Browning, Arnold, Carlyle, Mill, and others, emphasizing literary, social and political issues, and religious controversies.
Letter grade only (A-F).

559/459. English Literature of the Twentieth Century (1900-Present) (3)
Prose and poetry of Shaw, Conrad, Yeats, Lawrence, Joyce, Woolf, and others, emphasizing artistic experimentation and the development of modernist systems.
Letter grade only (A-F).

562/462. Chaucer (3)
Works of Geoffrey Chaucer in Middle English.
Letter grade only (A-F).

566/466. Irish Literature in English (3)
Major Irish authors from the Celtic Revival to the present. The literature will be placed in its historical and political contexts, paying particular attention to the relationship between politics and literature, the status of women, and questions of national identity.
Letter grade only (A-F).

567A.B.467A.B. The English Novel (3,3)
History and development of the English novel in the British Isles to and since 1832.
Letter grade only (A-F).

568/468. English Drama (3)
Readings from the history of English drama, excluding Shakespearean works, including Marlowe, Jonson, and Restoration comedy.
Letter grade only (A-F).

572/472. American Literature: 1820-1865 (3)
Major authors and works, along with newly recovered texts, from the period that is often called the "American Renaissance."
Letter grade only (A-F).

573/473. American Literature: 1865-1918 (3)
Developments in poetry, the novel, the short story, and non-fictional prose in the United States between the Civil War and World War I.
Letter grade only (A-F).

574/474. Twentieth-Century American Literature (3)
American literature from about 1914 to the present.
Letter grade only (A-F).

575/475. The American Short Story (3)
History and development of the short story and its criticism in the United States.
Letter grade only (A-F).

576A.B.476A.B. American Poetry (3,3)
History and development of poetry and its criticism in the United States to and since 1945.
Letter grade only (A-F).

577A.B.477A.B. The American Novel (3,3)
History and development of the novel and its criticism in the United States to and since 1920s.
Letter grade only (A-F).

578/478. American Drama (3)
History and development of drama and its criticism in the United States.
Letter grade only (A-F).

584/484. Contemporary Literary Theory (3)
Study of the principal theories of literature including structuralism, deconstruction, theory of genre, and theory of criticism.
Letter grade only (A-F).

590. Directed Reading (3)
Students are assigned a reading list developed with the assistance of faculty. Works are discussed with the instructor during a series of conferences. Comprehend paper due at end of semester.
Letter grade only (A-F).

598. Directed Studies (1-3)
Prerequisites: Baccalaureate degree, consent of instructor. Independent creative writing activity under the supervision of a creative writing faculty member.
Letter grade only (A-F).

605A. Advanced Seminar in Fiction Writing (4)
Prerequisites: Admission to the MFA in Creative Writing, ENGL 505A, and 505B.
Discussion, criticism, and detailed evaluation of works in progress.
Letter grade only (A-F).

605B. Advanced Seminar in Fiction Writing (4)
Prerequisites: Admission to the MFA in Creative Writing, ENGL 505A, 505B, and 605A.
Discussion, criticism, and detailed evaluation of works in progress.
Letter grade only (A-F).

606A. Advanced Seminar in Poetry Writing (4)
Prerequisites: Admission to the MFA in Creative Writing, ENGL 506A, and 506B.
Discussion, criticism, and detailed evaluation of works in progress.
Letter grade only (A-F).

606B. Advanced Seminar in Poetry Writing (4)
Prerequisites: Admission to the MFA in Creative Writing, ENGL 506A, 506B, and 606A.
Discussion, criticism, and detailed evaluation of works in progress.
Letter grade only (A-F).

652. Seminar in the English Renaissance (4)
Prerequisite/Co-requisite: ENGL 665.
Intensive studies in the literature of the period, chiefly Elizabethan.
Letter grade only (A-F).

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653. Seminar In the Age of Milton (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in English literature of the Stuart and Commonwealth periods, including Milton.  
Letter grade only (A-F).

655. Seminar in Restoration and Eighteenth-Century Literature (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in English literature of the Restoration and eighteenth century.  
Letter grade only (A-F).

656. Seminar in Romantic Literature (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in English literature of the Romantic period.  
Letter grade only (A-F).

657. Seminar in Victorian Literature (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in English literature of the Victorian period.  
Letter grade only (A-F).

659. Seminar in Twentieth-Century English Literature (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in English literature from about 1900 to the present.  
Letter grade only (A-F).

671. Digital Rhetoric (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies of consumption and production of digital media.  
Analyzes relationships among rhetoric, writing, cultural studies, and technology; examines means of production transforming literate practice in humanities; and engages students in writing with digital media.  
Letter grade only (A-F).

672. Seminar in the Nineteenth-Century American Renaissance (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in American literature from about 1820 to about 1865.  
Letter grade only (A-F).

673. Seminar in American Realism (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies in the development of realism in American literature.  
Letter grade only (A-F).

674. Seminar in Twentieth-Century American Literature (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive studies of twentieth-century American authors.  
Letter grade only (A-F).

681. Seminar in Major Authors (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive study of the works of one to three specific major authors.  
Not open for credit to students with credit in ENGL 496 or 497 covering the same author. May be repeated to a maximum of 12 units with different authors in the same semester. Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 12 units in the same semester. Letter grade only (A-F).

683. Seminar in Special Topics in English Studies (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive explorations of topics in English studies.  
May be repeated to a maximum of 8 units with different topics in the same semester. Topics to be announced in the Schedule of Classes. Letter grade only (A-F).

684. Seminar in Advanced Literary Theory (4)  
Prerequisite: Completion of ENGL 696.  
Intensive study in one or more of the principal theories of literature.  
Letter grade only (A-F).

685. Seminar in Rhetorical History and Theory (4)  
Prerequisite/Corequisite: ENGL 696.  
Intensive study of rhetorical history and theory from ancient to contemporary times.  
Letter grade only (A-F).

696. Seminar in Literary Criticism and Research (4)  
Study of major critical approaches to literature and basic literary research methods. Introduction to the discipline of literary criticism, various critical methodologies, techniques of bibliography and research, and important literary reference works. Writing of critical research papers.  
Students not allowed to take ENGL 696 unless admitted to M.A. program. (English M.A. candidate may not be enrolled in any other 600 course without completion of or concurrent enrollment in ENGL 696.) Letter grade only (A-F).

697. Directed Research (1-3)  
Prerequisites: ENGL 696 and consent of instructor.  
Individual research or intensive study under the guidance of a faculty member.  
Letter grade only (A-F).

698. Thesis (1-6)  
Prerequisites: ENGL 696 and consent of instructor.  
Planning, preparation, and completion of a thesis under supervision of a faculty committee.  
Must be advanced to candidacy. Must be taken for a total of 6 units.

American Language Program  
American Language Program (ALP) courses are for non-native speakers of English. All courses are recommended for international students (students on F-1 visas). ALP courses are recommended for all other non-native speakers of English.

Courses (ALP)

145. American Language Advanced I (3)  
Prerequisite: Non-native speakers who score 137 or below on the English Placement Test, or 500 or below on the Exam in English as a Second Language, and who have not taken equivalent writing courses in another department, are eligible for enrollment.  
Counts toward elective credit for undergraduates. Does not count toward graduation for graduate students, but does count toward course load credit.  
Basic course in writing, offering intensive practice in every stage of the writing process. Writing strategies at the level of word, sentence, and paragraph. Conventional mechanics, spelling, and the grammar of standard edited written English.

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150. American Language Advanced I (3)
Prerequisite: Non-native speakers who score 135-150 on the English Placement Test, or 501 through 559 on the Exam in English as a Second Language, or successful completion of ALI/ALP 146 with a grade of "C" or better.
Counts toward elective credit for undergraduates. Does not count toward graduation for Graduate students, but does count toward course load credit.
Includes critical/analytical reading and expository writing with emphasis on longer essays. Analysis and practice of standard rhetorical modes of essay development.

American Language Institute
For students who need English language training prior to enrolling at CSULB, the American Language Institute provides professional instruction in all four language skills: reading, writing, listening and speaking. Conditional admission to CSULB is available for qualified students.
PLEASE NOTE: International students are subject to the same Graduation Writing Assessment Requirement (GWAR) and EPT/ELM requirements as are all CSULB students.
American Language Institute (ALI) courses are for non-native speakers of English. ALI courses are recommended for international students (students on F1 visas). ALP courses are recommended for all other non-native speakers of English.

Courses (ALP)

150. American Language Advanced I (3)
Prerequisite: Non-native speakers who score 135-150 on the English Placement Test, or 501 through 559 on the Exam in English as a Second Language, or successful completion of ALI/ALP 146 with a grade of "C" or better.
Counts toward elective credit for undergraduates. Does not count toward graduation for Graduate students, but does count toward course load credit.
Includes critical/analytical reading and expository writing with emphasis on longer essays. Analysis and practice of standard rhetorical modes of essay development.
ENVIRONMENTAL SCIENCE AND POLICY
College of Liberal Arts
College of Natural Sciences and Mathematics

Directors: Stanley C. Finney, Darwyn C. Hall
Department Office: SS/PA 340
Telephone: 562-985-9007; Fax: 562-985-5352
Website: http://www.csulb.edu/programs/evp-
Email: prop-enp@csulb.edu

Faculty: Richard J. Behl (Geological Sciences) Stuart R. Berg
(Chemistry and Biochemistry), Epifanis Fernandez-Juricic
(Biological Sciences), Stanley C. Finney (Geological Sciences),
Darwin C. Hall (Economics), Gregory J. Hark (Geological Sciences),
Daniel O. Luton (Anthropology), Wade E. Martin (Economics),
Andrew Z. Mason (Biological Sciences), Xuemui Li (Economics),
Christine M. Rodrigue (Geography), Suzanee P. Wochner
(Geography)

Career Possibilities
Environmental Analyst • Teacher • Ecologist • Geochemist
- Environmental Impact Report Writer • Community
Development Specialist • Urban Planner • Mass
Media (Journalism, Radio, Television) • Environmental
Advocate • Consultant • Public Relations • Public
Policy Administrator • Environmental Law •
Environmental Health • Environmental Economics
- Environmental Toxicology • Eco-friendly Business
(Some of these, and other careers, require additional
education or experience. For more information, see
www.careers.csulb.edu.)

Introduction
The Environmental Science and Policy degree
program is jointly housed in the College of Liberal
Arts and the College of Natural Sciences and Mathematics,
reflecting its inherent interdisciplinary nature.

Today’s environmental problems call for people who
are educated in more than one discipline, highly trained in
technical skills, and aware of the political, economic, and
social dimensions of environmental decisions. The B.A.
and B.S. degrees in Environmental Science and Policy
provide solid training in basic physical, biological, and social
sciences, and also address the human involvement in
environmental issues. This curriculum prepares students for
professional careers in Environmental Science and Policy
and for subsequent graduate study in M.A., M.S., Ph.D.,
and law degree programs.

In the narrowest sense, environmental science is
the study of the impact of human systems on physical
and biological systems, and the dependence on natural
resources by human systems. In a broader sense,
environmental science is the study of the interaction
and co-evolution of human, physical, and biological
systems. Natural science is the study of physical and
biological systems. Social science is the study of human
systems — economic systems, political systems, human
perceptions, and human interactions. Environmental
science requires knowledge of both natural and social
science. Environmental policy is concerned with the most
effective means of intervening to alter the pathways among
which natural and human systems co-evolve. Effective
intervention considers benefits and costs, uncertainties and
risks, limits of knowledge, and presupposes the purposes
of intervention, and the values from which the purposes
are derived. The purpose of environmental science and policy
is to design, evaluate, and implement policies that alter
the impact of human systems on physical and biological
systems, and the pathways by which natural and human
systems co-evolve.

Both Bachelor of Science and Bachelor of Arts
degrees are offered, as well as a minor. Most required courses
are offered in related disciplines in the College of Natural
Sciences and Mathematics and the College of Liberal Arts.
The curriculum fosters cross-disciplinary communication
in the required courses common to both degree programs,
and particularly in the Environmental Science and Policy
courses (ENP 200, 3001, 400).

The mix of required courses includes natural and social
sciences in both degree programs, while emphasizing
natural sciences in the B.S. program and emphasizing
social sciences in the B.A. program. Elective courses in the
B.S. program enhance the students’ knowledge in natural
sciences and computer/quantitative skills in the social
sciences. Elective courses in the B.A. program emphasize
applications of social science to environmental issues and
policy, while permitting students to further develop their
knowledge of natural sciences. The curricula of the two
degrees are designed to encourage and facilitate students
pursuing double majors or minors with departments in
natural or social science.

Career Paths
The Directors together with the Faculty are responsible
for advising majors in the Environmental Science and
Policy program. Majors are assigned to appropriate
advisees during their first semester in the program and are
encouraged to consult with their advisor every semester.
Students will be advised to select elective courses to
develop areas of interest and to further their career
objectives.

B.S. Degree: We advise majors to jointly major or minor
in anthropology, biology, chemistry, earth science, ecology,
economics, geography, geology, microbiology, or political
science. The B.S. degree requires an advanced level of
understanding of environmental systems, living systems, and
the role of chemicals in natural systems. Graduates are
trained for entry positions in industry and government
that require a high degree of specialization in technical
analyses in natural sciences, or quantitative and computer
methods in social sciences. Graduates with the B.S. degree
with a track in natural sciences will be qualified for graduate
programs (M.S. and Ph.D.) in biological sciences, geology
or chemistry, at most universities in the country. Graduates
with the B.S. degree with a social science track are qualified
to apply for the M.S. program in Environmental Health.
Sciences at UCLA, and subsequently the interdepartmental doctoral program in Environmental Science and Engineering degree at UCLA; the Ph.D. program in economics and environmental science at UC Santa Barbara; the Ph.D. program in Social Ecology at UC Irvine; and the M.A. and Ph.D. program in Energy and Resources at UC Berkeley.

B.A. Degree: We advise majors to jointly major or minor in anthropology, economics, geography, or political science, pursue the minor in journalism or the option in public relations in journalism, the minor in public administration in political science, or the major or minor in international studies, depending on the student's career goals and interests. Graduates are especially well prepared for positions in state and local government, private consulting firms, energy companies, news organizations, environmental advocacy groups, consulting firms, and public relations firms. Graduates are prepared to directly enter Ph.D. programs in economics and geography, as well as M.B.A. programs in environmental science and management, M.A. programs in economics or geography, and law school.

Bachelor of Arts in Environmental Science and Policy (code ES_PB01) (120 units)

The B.A. degree program emphasizes the social sciences, with a basic introduction to physical and biological sciences applied to natural systems. Required courses emphasize social sciences and include breadth in natural sciences. Elective courses include social sciences applied to environmental analysis and policy, and permit some additional coursework in natural sciences.

Lower Division: BIOL 200 (or 111 and 111L), 260; 3 units from CHEM 111A or 140 or GEOL 101; ECON 100, 101; ES P 200; GEOL 102, 104, 280; MATH 115 or 119A or 122.

Upper Division: BIOL 350; ECON 310; one course selected from ECON 462, 463, and 464; ES P 300I, 400; GEOG 481 or 485; one course selected from GEOG 442, 455, and 460; GEOL 300; one course selected from PSYC 320, 321, 322, or 323.

Additional 21 units of course work selected from the following approved list of courses, 12 units of which must be Upper Division or approved by the advisor.

Approved Courses: ANTH 140, 301, 491; BIOL 303; COMM 330; ECON 365, 403, 404, 434, 462, 463, 464, 485, 486; ENGR 502; ES P 400, 491, 499; GEOG 555, 560, 440, 442, 444, 445, 452, 455, 456, 458, 460, 473, 474, 475, 482, 486, 487A, 488; GEOL 100, 250, 303, 339, 410; HSC 422; HIST 481, 482; MATH 123, MATH 380 or STAT 380; MIRC 200; PHYS 105A or 151; PSYC 320, 321, 322, 323; SOC 300, 410, STAT 381.

Bachelor of Science in Environmental Science and Policy (code ES_PB01) (120 units)

The B.S. degree program emphasizes the physical and biological sciences, with a basic introduction to social science methods applied to human systems. Required courses emphasize natural sciences and include breadth in social sciences. Elective courses include physical and biological sciences, and technical courses in social sciences.

Lower Division: BIOL 111, 111L, 212, 212L, 213, 213L, 260;

CHEM 111A, 111B; ES P 200; GEOL 102, 104, 280; MATH 119A or 122, MATH 119B or 123.

Upper Division: BIOL 350; CHEM 327 (or 320A or 322A); ECON 300 (or both 100 and 101), 310; one course selected from ECON 462, 463, and 464; ES P 300I, 400; GEOG 481 or 485; GEOL 300I.

Additional 18 units of course work selected from the following approved list of courses, 8 units of which must be Upper Division or approved by the advisor.

Natural Science Track: 12 units must be in Biology, Microbiology, Environmental Science and Policy, Geology, Chemistry, Chemical Engineering, Mathematics and Statistics. PHYS 100A,B (or 151, 152) are required.

Social Science Track: 12 units must be in Anthropology, Economics, Geography, and Mathematics and Statistics.


Minor in Environmental Science and Policy (code ES_PUM01)

This minor may be combined with any major at CSULB except the B.A. and B.S. in Environmental Science and Policy. The minor requires a minimum of 20 units (at least 9 of which must be upper division) of coursework in Anthropology, Biology, Microbiology, Economics, Environmental Science and Policy; Geography, or Geology.

Prerequisites

Students are required to take the following courses:

BIOL 200, ECON 300 (or 100 and 101), and GEO 102 and 104 as prerequisites for the following required courses, but these prerequisites do not count toward the minor.

Requirements

Students must take ES P 200, 300I, and a minimum of 14 additional units from the following: ANTH 140, 301, 481; BIOL 350, 353, 450, 451, 456, 457, 459, 464; MIRC 303; ECON 306, 462, 463, 464; ES P 400; GEOG 440, 442, 443, 444, 455, 450, 480, 487A; and GEO 190, 200, 300I, 303, 465, 466, 477.

Environmental Science and Policy Courses (ES P)

LOWER DIVISION

200. California Environmental Issues (3)

Prerequisites or Corequisites: GEOL 102, 104; BIOL 200, ECON 101 or 300.

Introduction to the history, nature, status, and future of a major environmental issue in California. Biological, physical, and societal aspects will be examined and integrated with the goal of developing a plan to meet the challenges of the 21st Century.

Lettar grade only (A-F). (Lecture 2 hrs., discussion 1 hr., and field trips.)
UPPER DIVISION

300L. Environmental Law and Policy (3)
Prerequisites: Completion GE Foundation Requirements; both ECON 100 and 101, or ECON 300; POSC 100, and upper division standing.
Property rights, federal and state roles in decision-making, rights and limits of both private parties and the broad public interest.
Emphasis on science in decision-making, choices between regulations and incentives, and role of bureaucracy.
Letter grade only (A-F). (2 hrs lecture, 1 hr discussion).

400L. Environmental Science and Policy Capstone Project (3)
Prerequisites: BIOL 369, ECON 462 (or 463 or 464); E S P 200, 300L; GEOG 481 or 485; GEOL 300.
An interdisciplinary evaluation of the physical, biological, social, economic, and legal dimensions of a local environmental issue.
Examples include policies to control surface water run-off, policies for marine protected areas, dredging harbors, and developing, preserving, restoring wetlands and estuaries.
Letter grade only (A-F). (2 hrs lecture, 3 hr laboratory and field work).

490. Special Topics in Environmental Science and Policy (3)
Prerequisite: Consent of instructor.
Topics of current interest in environmental science and policy selected for intensive development.
Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

491. Senior Thesis/Project in Environmental Science and Policy (1-6)
Prerequisites: Senior status and consent of instructor.
Final completion of a thesis or research project.
May be repeated to a maximum of 6 units in different semesters. Letter grade only (A-F).

495. Environmental Science and Policy Internship (3)
Prerequisite: Consent of instructor.
Practical experience in an appropriate business, government, or non-profit organization.
May be repeated to a maximum of 6 units in different semesters. Credit/No credit grading only.

499. Environmental Science and Policy Directed Study (1-6)
Prerequisite: Consent of instructor.
Independent study under the supervision of a faculty member.
May be repeated to a maximum of 6 units in different semesters.
FAMILY AND CONSUMER SCIENCES
College of Health and Human Services

Department Chair: Wendy Reiboldt
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone/Fax: (562) 985-4484/985-4414
Website: www.csulb.edu/colleges/cohba/departments/fcs/

Faculty: Judith Anglin, Lee Blecher, Maria Clauer, Gail C. Frank, Avey E. Goldstein, James E. Koval, Jacqueline Lee, Margaret Lichty, Suzanne Marshall, Natalie Medora, Wendy Reiboldt, Lydia Sonthi, M. Sue Stanley, Ramesh B. Yore (Emeritus), Richard V. Turverson, Jung-Moo (Ronnie) Yeh
Baccalaureate Program Coordinator: Richard V. Turverson
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichty
Administrative Support Coordinators: Muk Loh, Manosi Bokdenaya
Instructional Support Technician: Bonnie Rice

Introduction
The faculty of the Department of Family and Consumer Sciences seeks to prepare men and women to enter professions concerned with enhancing the quality of individual and family life in the context of the near environment. The following objectives have been articulated:

To prepare men and women to the highest standards for professions in Family and Consumer Sciences and related fields requiring a baccalaureate or master's degree.

To prepare students for successful careers within the diversity of human relationships while enhancing their own physical, psychological, and emotional development through their lifespan.

To provide continuing education and post-master's study in professional fields of Family and Consumer Sciences.

To provide information to a diverse student population and the community about current services and career opportunities as well as the potential for emerging professional careers in a changing society.

To employ the most effective methodology and useful resources on the university campus and in the surrounding communities. Provide the best quality program within the structure of the CSU system.

To continue creative and scholarly research for the future growth of the profession.

To apply knowledge gained from research and study to serve the needs identified in the university and surrounding community.

Accreditation
The Department of Family and Consumer Sciences is accredited by the American Association of Family and Consumer Sciences (AACFS) (American Association of Family and Consumer Sciences, Council for Accreditation, 1055 King Street, Alexandria, VA 22314, phone: 703-706-4600). The Didactic Program in Dietetics and the Dietetic Internship are accredited by the American Dietetic Association (ADA) (Commission on Accreditation for Dietetics Education, American Dietetic Association, 216 West Jackson Boulevard, Suite 800, Chicago, IL 60606-6906; phone: 312-896-4872). The Preschool and Toddler Study Laboratories are accredited by The National Association for the Education of Young Children. Family Studies Program is approved by the National Council on Family Relations to offer a program leading to Provisional Family Life Education Certification.

The Department of Family and Consumer Sciences offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science degrees.

Curricula are designed to provide a liberal arts education through study in the social and natural sciences, the humanities and the arts, and to offer specialized instruction based on these disciplines which will lead to professional careers in Family and Consumer Sciences and related fields.


Degrees and certificates available in the Family and Consumer Sciences Department include:

• Bachelor of Arts in Family and Consumer Sciences in the following option areas: Child Development and Family Studies; Consumer Affairs, Family and Consumer Sciences Education, Family Life Education, Fashion Merchandising and Textiles and Clothing

• Bachelor of Science in Dietetics and Food Administration in the following option areas: Nutrition and Dietetics and Food Science

• Bachelor of Science in Hospitality Foodservice and Hotel Management

• Master of Arts in Family and Consumer Sciences

• Master of Science in Nutritional Science

• Master of Science in Gerontology (specific requirements are listed under Gerontology)

• Dietetic Internship

• Foodservice Systems Administration Certificate

• Gerontology Certificate

(Specific requirements are listed under Gerontology)

• Home Economics Single Subject Teaching Credential (a 5th year of study is required)

Information about Family and Consumer Sciences sponsored degrees and certificates are organized by degrees and options.

Undergraduate Programs

Bachelor of Arts in Family and Consumer Sciences
The Department of Family and Consumer Sciences offers students a Bachelor of Arts degree in six option areas of study:
• Child Development and Family Studies
• Consumer Affairs
• Family and Consumer Sciences Education
• Family Life Education
• Fashion Merchandising
• Textiles and Clothing

Requirements for all majors include a minimum of 120 units for the Bachelor of Arts degree. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences must be completed, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this University and it is first accepted by the University.

Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Bachelor of Science in Dietetics and Food Administration

The Department of Family and Consumer Sciences offers a Bachelor of Science degree in Dietetics and Food Administration two option areas of study:
• Nutrition and Dietetics
• Food Science

Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Requirements for the major include a minimum of 131 units for Nutrition and Dietetics. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences is required, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this University and it is accepted by the University.

Graduate Programs

Master of Arts in Family and Consumer Sciences (code FCS_MA01)

The Master of Arts degree in Family and Consumer Sciences is designed for students seeking a master’s degree, or professional advancement, or for those wishing to pursue further graduate study. The mission of the program is to educate students to become competent researchers and practitioners who are responsive to the complex and changing needs of diverse families and communities.

The main goal of the graduate program is to provide an opportunity for students to increase competencies and knowledge within their disciplines. In addition, the program gives students opportunities to develop professional leadership and administrative skills. Students are able to work collaboratively with individuals in other disciplines as well as diverse communities to improve the quality of life.

The focus of the curriculum is to promote an understanding of theoretical approaches to the study of the disciplines within the department and the application of theories to enhance the quality of life of individuals, families, and communities. All students will get a strong background in research methods. The advanced candidate selects either a thesis track or directed project track to facilitate a selected career path.

Students can expect to:
• Gain professional knowledge development.
• Develop scholarship and research abilities.
• Enhance professional development.

There are four specializations in the Master of Arts degree in Family and Consumer Sciences:
• Consumer Affairs
• Family and Consumer Sciences Education
• Fashion Merchandising
• Hospitality Foodservice and Hotel Management

Interested students should contact the Department of Family and Consumer Sciences Graduate Coordinator at (562) 985-4494. Online information can be found at http://www.csulb.edu/colleges/cths/departments/fcs/programs/graduate/MADegree.htm.

Admission

Prospective applicants must comply with University requirements for admission to graduate studies as outlined in the CSULB Catalog. Students must concurrently submit application to the University Admissions and Records Office and the Department. A cohort of students will be admitted each Fall semester.

Admission Requirements to the Department

Admission to the Master of Arts in Family and Consumer Sciences is dependent upon approval by the Graduate Coordinator. The application requirements for prospective graduate students for the Master of Arts degree are:
1. At least a 2.5 grade point average in the most recently completed 60 units of course work.
2. A copy of the application submitted to the University Office of Admissions and Records.
3. Official transcripts of your baccalaureate degree. (These are in addition to these transcripts required for general admission to California State University, Long Beach).
4. Three letters of recommendation (preferably from previous instructors).
5. Submission of official copy of Graduate Record Examination (GRE). A minimum score of 4 on the Analytical Writing section of the GRE (taken in the last five years) is required and is an acceptable substitution for passing the Writing Proficiency Exam/Graduate Writing Assessment Requirement (WPE/GWAR) for the Consumer Affairs, Family and Consumer Sciences Education, and Fashion Merchandising areas of specialization. A minimum score of 3.5 on the Analytical Writing section of the GRE is required for the Hospitality Foodservice and Hotel Management area of specialization or the WPE/GWAR must be passed within the first year of the program.
6. Additional materials that provide evidence of academic performance may be requested (at a later date) after review of applicant’s file.
7. Approval by the Graduate Coordinator.
8. DEADLINES FOR RECEIPT OF APPLICATIONS TO THE DEPARTMENT GRADUATE COORDINATOR: MAY 1ST FOR FALL ADMISSIONS.

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Prerequisites
1. Students are responsible for meeting all prerequisite requirements prior to enrolling in 500/600 level courses.
   A. The Graduate Coordinator and/or faculty advisor will evaluate transcripts. The student who needs to complete prerequisite deficiencies must do so using a program of study developed with the specialization area faculty advisor and approved by the Graduate Coordinator.
   B. The student who needs to pass the Test of English as a Foreign Language (TOEFL) must do so within one year of admission.
2. Students from other disciplines will be required to complete prerequisite courses before enrolling in 500/600 level courses.
3. Prerequisites for all courses carrying graduate credit must have been completed within five years of taking the required courses. If the prerequisite is outdated, the prerequisite(s) must be repeated or credit obtained by examination.
4. Students deficient in undergraduate preparation must take courses to remove these deficiencies at the discretion of the faculty in the specified subject matter area and the Graduate Coordinator. Courses taken to remove deficiencies may not be included in the graduate program of study.

Retention
1. Maintain a 3.0 or better grade point average in all graduate work completed at CSULB and all graduate work transferred to meet graduate requirements.
2. Maintain satisfactory progress toward the degree objective.

Advancement to Candidacy
1. Satisfactory completion of the Writing Proficiency Examination
2. Minimum of 3.0 overall GPA and a 3.0 average in all units undertaken for the program of study.
3. Completion of ED 519; FCS 561, 563, 605, 655A, and 696.
4. Approval of the Graduate Coordinator, and Associate Dean of the College of Health and Human Services.
5. Enrolled in the semester in which the Advancement to Candidacy takes place.

Requirements for Graduation
1. Completion of a minimum of 34 units of approved upper division and graduate courses with a minimum of 21 units in FCS.
2. Completion of EDP 419 and FCS 561, 563, 605, 655A, 696, 697, 692 or 698 and 9 units of Advisor approved courses in the area of specialization (Consumer Affairs, Family and Consumer Sciences Education, Fashion Merchandising or Hospitality Foodservice and Hotel Management).
3. Completion of an oral presentation of the Thesis or Directed Project report.

Master of Science in Nutritional Science
(code FCS_M501)
The Master of Science Degree in Nutritional Science offers 3 emphases: Clinical/Community Nutrition, Food Science, and Foodservice Systems Management. These provide an opportunity for students to:
1. Specialize in nutrition therapy/community nutrition, food science or hospitality foodservice and hotel management;
2. Complete a master’s degree and the academic requirements to qualify for membership in the American Dietetic Association concurrently and become eligible to apply to the Approved Dietetic Internship;
3. Increase competence in food and nutrition subject matter in preparation for college teaching, research, graduate study beyond the master’s degree and administrative positions in public and private agencies.

Admission Criteria
Prospective applicants must comply with University requirements for admission to graduate studies as outlined in the CSULB catalog. Students must concurrently submit applications to the University Admissions and Records Office and the Department of Family and Consumer Sciences.
Admission to the Master of Science in Nutritional Science is dependent upon approval by the Graduate Coordinator. The applicant must submit the following materials to the Graduate Coordinator in the Department of Family and Consumer Sciences.
1. A copy of the completed application submitted to the CSULB Office of Enrollment Services.
2. Official transcripts of all undergraduate course work.
3. Three letters of recommendation with at least two from instructors who have direct knowledge of the applicant’s scholastic ability and professional qualifications.
4. A bachelor’s degree with an undergraduate overall GPA of 3.0 and a GPA of 3.0 on the last 60 undergraduate units attempted.
5. An official copy of the Graduate Record Examination (GRE) taken within the last 5 years. A minimum score of 900 on the Verbal and Quantitative sections and a minimum score of 4 on the Analytical Writing section of the general GRE (taken after October 2002).
6. THE DEADLINES FOR RECEIPT OF APPLICATIONS TO THE DEPARTMENT GRADUATE COORDINATOR ARE MAY 1ST FOR FALL ADMISSIONS AND NOVEMBER 1ST FOR SPRING ADMISSIONS.

NOTE: Dietetic internship applicants have been assigned specialized deadlines to apply for the MS Nutritional Science degree. Please refer to the information under the American Dietetic Association (ADA) Accredited Dietetic Internship immediately following the M.S. requirements section.

Prerequisites
1. Students may be admitted to the program under conditional status for several reasons. Students are responsible for meeting all conditional requirements to be removed from conditional status prior to enrolling in 500/600 level courses.
   A. Students who need to bring their GPA up to 3.0 must achieve a GPA of 3.0 within one year of admission. The Graduate Coordinator, in consultation with the student and faculty advisor, will identify courses after evaluation of transcripts. Courses taken to raise the GPA may not be included in the graduate program of study.
   B. The student who needs to fulfill the Graduation Writing Assessment Requirement (GWAR) must do so within one year of admission and must attempt to satisfy the GWAR the first semester of enrollment. A minimum of
on the Analytical Writing section of the general GRE fulfills this requirement.

C. The student who needs to pass the Test of English as a Foreign Language (TOEFL) must do so within one year of admission.

D. The student who needs to complete prerequisite deficiencies must do so using a program of study developed with the specialization area faculty advisor and approved by the Graduate Coordinator.

2. Students from other disciplines will be required to complete prerequisite courses before enrolling in 500/600 level courses.

3. Prerequisites for all courses carrying graduate credit must have been completed within seven years of taking the graduate courses. If any prerequisite is outdated, it may be repeated or credit obtained by written examination. Specifically, basic biological science courses and foundation nutrition and food science courses are evaluated for currency. The department administers a proficiency examination covering the content of NUTR 331A and FSCI 332 courses for students in all emphases who have not taken these courses or their equivalents within the past five years. In addition, NUTR 331B course content will be included in the proficiency examination for students in the Nutrition Therapy/Community Nutrition emphasis. Any student failing to pass the proficiency examination with a grade of "B" or better must take the appropriate course for credit.

4. Entering graduate students will meet with the Graduate Coordinator to prepare a tentative degree program. In order to enroll in any graduate course, the student must complete all prerequisites and deficiencies and must obtain approval from the Graduate Coordinator.

Advancement to Candidacy

1. Satisfy the general University requirements for Advancement to Candidacy.

2. Complete 9 units of graduate courses, including FCS 696.

3. Fulfill the Graduation Writing Assessment Requirement (GWAR).

4. Maintain a 3.0 GPA for all course work attempted as a graduate student.

5. Complete a Program of Study in consultation with a faculty advisor.

6. Approval by the Graduate Coordinator of Family and Consumer Sciences and the Associate Dean of the College of Health and Human Services.

Requirements

1. Completion of a minimum of 34-36 units depending on concurrent completion of a dietetic internship;

2. An advanced statistics course: EDP 519 or HSCI 563 or KIN 590 or a course approved by the faculty advisor;

3. At least 15 units of 500/600 level courses in Family and Consumer Sciences:
   - A. Nutritional Science without Dietetic Internship (34 units): FCS 530A, 530B, 531 or 533, 636, 696, 697, 692 or 696, and 9 units of advisor approved area of specialization courses.
   - B. Nutritional Science with Dietetic Internship (36 units): FCS 530A, 530B, 531 or 533, 591A (0 units), 591B (2 units), 636, 696, 697, 692 or 696 and 3 units of advisor approved area of specialization courses.

4. An overall GPA of 3.0 or better;

5. A Written Thesis or a Directed Project; and

6. Oral presentation of the Thesis or Directed Project.

American Dietetic Association (ADA) Accredited Dietetic Internship (DI)

The Department of Family and Consumer Sciences offers a combined Master of Science in Nutritional Science and Dietetic Internship program. This experience fulfills the registration eligibility requirements of the ADA to become a Registered Dietitian. Upon successful completion of the DI, the student will be eligible to write the Registration Examination for Dietitians.

The DI requires 1,093 hours total, with 928 hours of practice divided into four emphases: nutrition therapy, foodservice systems management, community and business/entrepreneurial nutrition. The Seminar in Dietetic Practice constitutes the remaining 165 hours of the DI. The supervised practice is conducted off campus at a variety of excellent facilities. Opportunities exist in acute and long-term health care sites, as well as in teaching, research, community and governmental agencies. Students will receive training in general dietetics with experiences that expose them to various specialty areas.

Admission Requirements

1. Completion of the Didactic Program in Dietetics as stipulated by ADA with an original verification statement from a Didactic Director;

2. Earned baccalaureate degree;

3. GPA 3.0/4.0 scale required on the last 60 units of courses completed;

4. Related volunteer or work experience in the United States;

5. Graduate standing in the CSULB Master of Science, Nutritional Science program;

NOTE: Dietetic Internship applicants must apply on or before February 1st to the MS Nutritional Science degree program to coincide with the Fall admission to the DI program.

6. Application materials to Dietetic Internship Director by February 1st including three letters of recommendation, formal ADA application, a $45 application fee and copies of all college transcripts; and

7. Personal interview with Program Director and review committee.

Program Requirements

Upon satisfactory completion of the Supervised Practice in Dietetics: FCS 591A, the Seminar in Dietetic Practice: FCS 591B, and the completion of two of the four core graduate courses, FCS 530A, 531, 533, 530B or equivalent with a grade of "A" or "B", the student will be eligible to take the Registered Dietitian (R.D.) exam sponsored by the American Dietetic Association.
524. Independent Living for Disabled and Elderly Persons (3)
Prerequisites: CAFF 3211 or 322 or GERN 4001 or consent of instructor.
Independent living concepts related to physically and or functionally disabled adults. Personal, environmental and programmatic responses to disability and aging.
Letter grade only (A-F). Same course as GERN 524. Not open for credit to students with credit in GERN 524.

525. Personal Financial Planning Analyses (3)
Prerequisites: CAFF 223 or consent of instructor.
Analysis and protection of personal and family resources: planning and forecasting goals; development of financial strategies utilizing insurance, investments, tax management, pensions, wills and trusts.
Letter grade only (A-F).

526. Family Financial Problems (3)
Prerequisites: CAFF 223 or consent of instructor.
Theory and practice in the diagnosis of family financial crises; evaluating alternative solutions; constructing practical methods for the prevention of family financial problems.
Letter grade only (A-F). (2 hours discussion, 3 hours laboratory).

529. Consumer Protection (3)
Prerequisites: Upper Division course in consumer affairs or consent of instructor.
Concepts of consumer protection with analysis of a myriad of resources available for individuals and families with consumer problems.
Letter grade only (A-F). (Seminar 3 hours.)

530A. Carbohydrates, Lipids and Proteins (3)
Prerequisites: NUTR 430, 430L, BIOL 260.
Nutritional, metabolic and clinical aspects of carbohydrates, lipids and proteins. Current knowledge of interactions between macronutrients and assessment of needs.
Letter grade only (A-F). (Seminar 3 hours.)

530B. Vitamins and Minerals (3)
Prerequisites: NUTR 436, 438L, BIOL 260.
Letter grade only (A-F). (Seminar 3 hours.)

531. Advanced Community Nutrition (3)
Prerequisites: NUTR 436 and 438L or FCS 562, NUTR 461.
Program planning and evaluation with emphasis on major nutrition-related public health problems among target populations. Protocol development, collection and analysis of data. Verbal and written communications.
Letter grade only (A-F). (Lecture-discussion 3 hours.)

532. Food Analysis (3)
Prerequisites: CHEM 327, FSCI 332 or equivalent.
Application of scientific methods of food analysis. Consideration of manner in which such variables as ingredients, proportions, and techniques in food preparation affect the quality of products. Experimental laboratory problems.
Letter grade only (A-F). Course fee may be required. (Seminar 2 hours, Laboratory 3 hours.)

533. Recent Advances in Food Science (3)
Prerequisites: FSCI 432 or consent of instructor.
New developments in food processing, techniques of food preservation and, chemical additives, food and water sanitation. Methods of standardization, preservation, and evaluation of quality. Nutrition of nutritive value, flavor, appearance, and safety of foods.
Letter grade only (A-F). (Seminar 3 hours.)
535. Food Processing, Preservation and Packaging (3)
Prerequisites: FSCI 332 or consent of instructor.
Methods and technological aspects in food processing, preservation and packaging. Application of principles and assessment of nutrition. Evaluation of chemical additives. Microbiological aspects of food safety.
(Lecture-discussion 2 hours, Laboratory 3 hours.)

536. Advanced Nutrition (3)
Prerequisites: NUTR 331B; CHEM 448, CHEM 449 (may be taken concurrently).
Metabolism of proteins, fats, carbohydrates, minerals and vitamins; interrelationships of nutrients; principles of determining nutritional requirements of individuals.
Letter grade only (A-F).

538. Medical Nutrition Therapy (3)
Prerequisites: NUTR 436; NUTR 438L (may be taken concurrently).
The nutrition care process is applied to specific pathophysiological conditions. The application of this process includes nutrition assessment, nutrition diagnosis, nutrition intervention, and nutrition monitoring and evaluation.
Letter grade only (A-F).

555. Global Perspectives in Fashion Merchandising (3)
Prerequisites: FMO 351 and 355, MKTG 300, and Graduate standing, or consent of instructor.
Application of merchandising concepts for the budgeting, buying, promoting, and selling of fashion apparel and accessories in global retail organizations.
Letter grade only (A-F).

558. Fashion Product Development (3)
Prerequisites: FMO 353, Graduate standing, or consent of the instructor.
The process of designing and engineering fashion products to be serviceable, producible, saleable, and profitable for various consumer market segments.
Letter grade only (A-F).

561. Curriculum Development in Family and Consumer Sciences (3)
Prerequisite: Field experience in Home Economics, Family and Consumer Sciences or a related area.
Current philosophies and basic principles in the analysis and organization of curricular programs and materials.
Letter grade only (A-F). (Seminar 3 hours.)

562. Contemporary Issues in Nutrition (3)
Prerequisite: NUTR 436 or consent of instructor.
Analysis of recent developments and current research in human nutrition. Topics include: nutrition through the life cycle, diet and dental health, athletic performance, human behavior, obesity, cancer; vegetarianism; practical application of scientific knowledge to diet management.
Letter grade only (A-F). (Seminar 3 hours.)

563. Evaluation in Family and Consumer Sciences and Gerontology (3)
Prerequisites: Upper division or graduate course in statistics; FCS 690 (may be taken concurrently) or equivalent.
Principles, design, and methods of program evaluation for use by Family and Consumer Sciences and Gerontology professionals.
Selection and development of instrumentation for data collection and interpretation and methods of reporting.
Letter grade only (A-F). Same course as GERN 563. Not open for credit to students with credit in GERN 563. (Seminar 3 hours.)

574. Cost Control in Hospitality Foodservice and Hotel Management (3)
Prerequisites: HFHM 275 or 276 or consent of Instructor.
Financial management of food, labor, supplies, and other operational costs; procedures for controlling purchasing, receiving, storing, and issuing of food, beverage, and supplies; inventory and security management; computer applications; and analysis of financial reports in hospitality foodservice and hotel industry.
Letter grade only (A-F). (Lecture/Discussion 3 hours).

577. Foodservice Administration (3)
Prerequisites: HFHM 276 or 375 or consent of instructor.
Principles of organization and administration in commercial and non-commercial foodservice operations are explored. Includes food purchasing, receiving, storage, inventory control, marketing, organizational management, human resource management, productivity, financial management, and quality management as applied to the foodservice industry. Field trips required.
Letter grade only (A-F). (Discussion 3 units)

591A. Professional Practicum in Dietetics (11)
Prerequisite: Admission to the American Dietetic Association Dietetic Internship.
Supervised practicum of contracted facilities to meet performance standards and qualify for the national registration examination.
Credit/No Credit grading only. 11 units for each of 2 consecutive semesters.

591B. Seminar in Dietetic Practice (1)
Concurrent enrollment in FCS 591A.
Oral and written presentations of annotated bibliographies and a clinical case study, reports of professional meetings, examinations and field trips.
Letter grade only (A-F). 1 unit for each of 2 consecutive semesters. (Seminar 1 hour)

592. Internship in Family and Consumer Sciences/ Gerontology (3)
Prerequisites: Graduate standing and consent of instructor.
Field experience in which student assumes a self-directed, responsible role in an agency, business or other community setting.
Letter grade only (A-F). May be repeated to a maximum of 6 units. (Seminar 3 hours.)

597. Independent Study (1-3)
Prerequisites: A 600 level course in any of the Family and Consumer Sciences disciplines.
Varied learning activities utilized to achieve programs of study not offered in regular course.
Written report required.
(Projects)

605. Seminar in Administration of Family and Consumer Sciences/Gerontology Programs (3)
Prerequisite: Graduate standing.
Application of administration, management and leadership theories to family and consumer sciences/gerontology programs. Decision-making, organizational structures and evaluation concepts included.
Letter grade only (A-F). Same course as GERN 600. Not open for credit to students with credit in GERN 600.

636. Nutrition and the Media (3)
Prerequisites: Graduate standing, NUTR 331A or equivalent.
Basic skills for analyzing and communicating reliable nutrition messages for print and visual media; translating evidence-based research into consumer messages.
Letter grade only (A-F). (Lecture-activity 3 hours.)

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655A. Literature Review and Research in Family and Consumer Sciences (3)
Prerequisites: ED P 419.
Critical analyses of the current professional literature, theory, practice and research. The research process including conceptualization of the problem, literature search and review. The legal and ethical aspects of research are stressed.
Letter grade only (A-F). (Seminar 3 hours)

692. Directed Project (1-4)
Prerequisites: FCS 597.
Will acquire experiential skills under the guidance of a faculty advisor and supervision by a preceptor at an approved project site. Will identify problems, design and conduct research. Results will be presented in a thesis-style report.
Letter grade only (A-F)

696. Research Methods (3)
Prerequisite: Upper-division course in statistics.
Methodological approaches to contemporary research issues in Family and Consumer Sciences. Focuses on the design, development, and implementation of a formal research-designed project.
Letter grade only (A-F). Same course as GLRN 696. Not open for credit to students with credit in GLRN 696. (Seminar 3 hours)

697. Directed Research (3)
Prerequisite: Advancement to candidacy.
Student works under supervision of the thesis/directed project chair and with other committee members to complete a proposal for the thesis or directed project. Concurrently, student participates in a five-week series of meetings on proposal development at the beginning of the semester. Students present their thesis/directed project proposals to classmates and committee chairs.
Letter grade only (A-F).

698. Thesis (1-4)
Prerequisites: FCS 597.
Planning, preparation and completion of a thesis related to the family and consumer sciences field.
Letter grade only (A-F)
FAMILY AND CONSUMER SCIENCES
EDUCATION
College of Health and Human Services
Department of Family and Consumer Sciences

Department Chair: Wendy Reiboldt
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone / Fax: (562) 985-4484 / 985-4414
Website: www.csulb.edu/colleges/chihs/departments/fcs
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Baccalaureate Program Coordinator: Richard V. Tuveson
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichy
Administrative Support Coordinators:
Mikal Lok, Marina Bendersky
Instructional Support Technician: Bonnie Rice

Career Possibilities
Home Economics/Family and Consumer Sciences Teachers in Secondary Schools, Educational Program Specialist in Business, Industry, Government, and Cooperative Extension Services. (For more information, see www.careers.csulb.edu.) Positions as instructors in adult education or community colleges provide excellent careers for graduates with a Family and Consumer Sciences Education option who obtain the appropriate credentials and education above the B.A. degree.

Undergraduate Programs

Bachelor of Arts in Family and Consumer Sciences
The Department of Family and Consumer Sciences offers students a Bachelor of Arts degree in six option areas of study:
• Child Development and Family Studies
• Consumer Affairs
• Family and Consumer Sciences Education
• Family Life Education
• Fashion Merchandising
• Textiles and Clothing
Requirements for all majors include a minimum of 120 units for the Bachelor of Arts degree. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences must be completed, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit for required courses if the course is equivalent to the course at this University and it is first accepted by the University.

Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Family and Consumer Sciences Education
A Bachelor of Arts degree in Family and Consumer Sciences, Option in Family and Consumer Sciences Education prepares students for careers in teaching youth and adults in various educational settings, as well as positions in business, industry and government. Courses in the program focus on enhancing the quality of life for diverse individuals and families through assignments and activities that promote solutions to problems encountered in daily living. The Option in Family and Consumer Sciences Education meets the subject matter requirement for the Preliminary Single Subject Credential in Home Economics.

Students who earn a Home Economics Single Subject Teaching Credential (code 140) will be prepared to teach in middle, junior, and senior high schools, and in adult and career and technical education programs and community colleges. Career opportunities also include positions in cooperative extension, government, and community service agencies; and education program specialist positions in business, industry, and government.

In addition to meeting the subject matter competence requirement for the Preliminary Single Subject Credential in Home Economics, prospective Family and Consumer Sciences teachers are also required to complete 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the department's Family and Consumer Sciences Credential Advisor early to plan their program.

The Option in Family and Consumer Sciences Education is being revised to meet new state standards for subject matter competence for the Home Economics credential. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

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Family and Consumer Sciences Education Courses (FCSCE)

287. Family and Consumer Sciences Computer Applications (1)
Development or improvement of computer skills for application in Family and Consumer Sciences discipline classes. Course consists of six modules that will be used to determine basic competency in spreadsheets, presentation software, word processing software, data base software, and communication tools.
Classes offered in online format. Credit/No Credit grading only. (Lecture Activity 1 hour).

290. Computer Applications for Family and Consumer Sciences Professions (3)
Prerequisites: Family and Consumer Sciences Education majors (FCS_BA02); ETEC 444, Fashion Merchandising majors (FCS_BA04); FMD 154 or 252, 155, 252, 253, FMD 154 or 252, 155, 252, 253.
Students will use computer paint-style, illustration and processing software and scanners to develop proficiency in drawing and designing for the workplace. They also will work with clip art, make technical drawings, storyboards, and color and fabric cards.
Letter grade only (A-F). (1 hour lecture discussion and 4 hours activity)

382. Family and Consumer Sciences Education (code FCS_BA02) (120 units)
CHEM 100; COMM 130; ECON 300; EDP 301; EDSS 300H; ETEC 444, HSC 411B; PSY 100, SOC 100 or ANTH 120; CAFS 223, 226, 321i, 322; CDFS 211, 312; FCSCE 286, 259, 482D, 489, 493; FMD 154, 251, 253; HFMH 173, 235, 276; NUTR 132; plus 12 units of one of the following concentrations:
Child Development and Education Occupations:
CDFS 214, 414, 416A, 416B;
Fashion Design, Manufacturing and Merchandising:
FMD 185, 381, 385, 487;
Food Service and Hospitality: HFMH 270, 375, 474, 477.
The candidates for the Home Economics Single Subject Credential must take professional education requirements.
The following courses have prerequisites in addition to classes listed in this FCSCE program of study:
1. HSC 411B - Current CPR (Cardio Pulmonary Resuscitation) Certification as a co-requisite.
2. FMD 355 - ELM (Entry Level Mathematics) test passage.
The following substitutions or waivers have been approved for students in the FCSCE program of study:
1. FMD 258 is waived in FMD 351 and FMD 355.
2. ACCT 201 is waived in FMD 355.
3. EDP 301 is substituted for CDFS 111 in all of the courses for which CDFS 111 is a pre-requisite. CDFS 211, 214, 414, 416A, 416B.
4. ETEC 444 is substituted for IS 233 in FMD 355.
5. FMD 253 is substituted for FMD 355.

299. Introduction to Family and Consumer Sciences (1)
Must be taken during first semester as Family and Consumer Sciences or Dietetics and Food Administration major. Provides a general overview of Family and Consumer Sciences as a discipline of study and a profession. Examines historical and philosophical perspectives and considers issues, trends, and career opportunities within each option in the department.
Letter grade only (A-F). (Lecture-Discussion 1 hour).

387. Electronic Portfolio Development for Family and Consumer Sciences Professionals (2)
Prerequisites: FCSCE 287 and upper division standing.
In-depth instruction in software applications such as graphics, spreadsheets, data bases, web pages, presentation and desktop publishing are applied to FCS professional portfolio development. Ethics, security, and trends are covered; troubleshooting techniques are applied.
Letter grade only (A-F). (Discussion 1 hour, Laboratory 3 hours).

486. Instructional Strategies for Family and Consumer Sciences Professionals (3)
Prerequisite: Senior Standing.
Must be taken in one of the last two semesters prior to graduation. Utilizes the principles and concepts of each area of Family and Consumer Sciences in developing and implementing a variety of learning experiences appropriate for providing instruction to individuals or groups in informal education, business, government agencies, or other community settings.
Letter grade only (A-F). (Lecture-Discussion 2 hours, Laboratory 3 hours).

490. Special Topics (1-3)
Group investigation of selected topics. Topics will be announced in The Schedule of Classes. May be repeated to a maximum of 9 units. (Seminar 1-3 hours.)

492D. Internship in Family and Consumer Sciences (3)
Prerequisites: Student must be a Family and Consumer Sciences Education major, have senior standing, have a 3.0 overall GPA or a 3.5 major GPA; approval of a Family and Consumer Sciences Education faculty advisor. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student under supervision must be approved by major advisor and form the basis for evaluation. May be repeated for 6 units maximum. (Seminar 3 hours.)

497. Directed Studies (1-3)
Prerequisites: Upper division standing, consent of instructor. Independent study under the supervision of a faculty member. Exploration and experience in areas which are not a part of any regular course.
May be repeated to a maximum of 6 units.

499. Professionalism and Leadership in Family and Consumer Sciences (2)
Prerequisites: FCSCE 299, CAFS 3211, 12 units of upper division coursework in Family and Consumer Sciences. Must be taken in one of the last two semesters prior to graduation. Analysis of contemporary issues, public policies and future directions of Family and Consumer Sciences as a discipline of study and as a profession with integrated specializations. Letter grade only (A-F). (Lecture-Discussion 2 hours)
FASHION MERCHANDISING AND DESIGN
College of Health and Human Services
Department of Family and Consumer Sciences

Department Chair: Wendy Reiboldt
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone / Fax: (562) 985-4484 / 985-4414
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Career Possibilities
Promotions Specialists • Product Developers • National Promotions Directors • Costume Designers • Designers • Sales Representatives • Buyers • Visual Promotion Directors • Textile Textors (For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Arts in Family and Consumer Sciences
The Department of Family and Consumer Sciences offers students a Bachelor of Arts degree in six option areas of study:
• Child Development and Family Studies
• Consumer Affairs
• Family and Consumer Sciences Education
• Family Life Education
• Fashion Merchandising
• Textiles and Clothing

Requirements for all majors include a minimum of 120 units for the Bachelor of Arts degree. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences must be completed, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this University and is first accepted by the University.

Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Fashion Merchandising and Design
A B.A. in Family and Consumer Sciences; Fashion Merchandising or Textiles and Clothing enables students to pursue careers in the design, production and merchandising of textile and apparel products, and to meet individual and family textile and apparel needs.

Course requirements for a B.A. in Family and Consumer Sciences: Fashion Merchandising or Textiles and Clothing are:

Option in Fashion Merchandising
(code FCS_BA04) (120 units)
ACCT 201; CHEM 100 or 111A; CAFF 321; ECON 100 and 101 or 300; HIST 131 or AH 111A; IS 223; MKTG 300; PSY 100; SOC 100 or 142 or ANTH 120; FCS 206 or ART 140; FCS 299, 486 and 499; FM 154 or 252; 155, 251, 253, 258, 351, 353, 355, 492E; 12 units selected from FM 450, 455, 456, 457; or either FM 356 or 451; plus 9 units of advisor approved electives.

Each course on the student's program planner must be completed with a grade of “C” or better. In addition, a course which a grade lower than “C” is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a “C” may proceed with other courses with approval of the Area Coordinator.

Minor in Fashion Merchandising
(code FCS_UM02)
Eighteen units including FM 155, 252, 455 or 457; and 9 units, including at least 6 upper-division units, selected from FM 261, 263, 351, 395, 492E as approved by a Fashion Merchandising and Design faculty advisor. It is the student's responsibility to adhere to all prerequisites listed below. Several prerequisites fulfill general education requirements.
1. Prerequisites for FM 351: FMD 256 and FCS 296
2. Prerequisites for FM 355: ELM passage, ACCT 201; FMD 155, 256; and IS 223, or consent of instructor
3. Prerequisites for FM 455: FMD 351, 356; MKTG 300, senior standing or, consent of instructor
4. Prerequisites for FM 457: ECON 100 and 101 or 300 (fulfills G.E. Category D2b) and FMDS 353, senior standing, or consent of instructor
5. Prerequisites for FM 452E: FMD 451, 455 or 457

The Minor in Fashion Merchandising is available to any non-Fashion Merchandising and Design major.

Option in Textiles and Clothing
(code FCS_BA05) (120 units)
CHEM 100 or 111A; ECON 100 and 101 or 300; HIST 131 or AH 111A; SOC 100 or 142 or ANTH 120; CAFF 321; IS 223; FCS 206 or ART 140; FCS 299, 499; FM 152, 154, 155, 251, 253, 256, 257, 258, FMD 352, 353, 354, 357, 356, 450, 452, 454, 456, 457, 458, 492M.

Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
Minor in Textiles (code FCS UM03)

Eighteen units including FMD 155, 253, 353, 458, and 457; 3 additional units selected from FMD 450 or 492E. It is the student's responsibility to adhere to all prerequisites listed below. It should be noted that several prerequisites fulfill general education requirements.

1. Prerequisites for FMD 353: FMD 253, FCSE 296 and CHEM 100 or 111A (fulfills G.E. Category B1b).
2. Prerequisites for FMD 450 (fulfills G.E. Category D2 and Global): Completion of GE Foundation courses; ANTH 120 or SOC 100 or 142 (fulfills G.E. Category D2) and upper division standing or consent of instructor.
3. Prerequisites for FMD 452: ECON 100 and 101 or ECON 300 (fulfills G.E. Category D2) and FMD 353, senior standing or consent of instructor.
4. Prerequisite for FMD 458: FMD 353, senior standing, or consent of instructor.
5. Prerequisite for FMD 492E: FMD 451, 455, or 457.

The Minor in Textiles is available to any non-Fashion Merchandising or Textiles and Clothing major.

Fashion Merchandising and Design Courses (FMD)

LOWER DIVISION

152. Quick Sketch for Fashion (3)

Technical drawings of garments and their design features. Letter grade only (A-F). (3 hours activity)

154. Fundamentals of Apparel Production (3)

Analysis of the interrelationships of apparel design and apparel construction. Application of theories and methods of apparel design to garment construction. Letter grade only (A-F). Only open to these majors: Textiles and Clothing (FCS_BA65); Fashion Merchandising (FCS_BA94); Family and Consumer Sciences Education (FCS_BA92). (Lecture-discussion 2 hours, Laboratory 3 hours)

155. Introduction to the Fashion Industry (3)

Organization, structure and interrelationship of industries and services that comprise the business of fashion: terminology, designers, trade organizations and publications. Professional opportunities explored. Letter grade only (A-F). (Lecture-discussion 3 hours)

251. Professional and Personal Apparel Selection (3)

Prerequisites: Completion of G.E. Foundation courses. Apparel selection for professional and personal needs based on design, culture and fashion. Wardrobe analysis and coordination; consumer clothing guidelines. (Lecture-discussion 3 hours)

252. Analysis, Evaluation and Comparison of Ready-to-Wear (3)

Analysis of the quality of materials, design and construction in ready-to-wear garments and accessories; comparison of processes involved in manufacturing; concepts of sizing, principles of fit, aids in buying and selling. (Lecture-discussion 3 hours)

253. Introductory Textiles (3)

A consumer-oriented approach to textile selection, use, and care. Provides a basis for a logical, consistent rationale in choosing apparel and interior textiles. Explores careers within the international textile industry. Letter grade only (A-F). (Lecture-discussion 3 hours)

256. Intermediate Apparel Production (3)

Prerequisites: FMD 154, 155 or 251. Continuation of construction techniques used in apparel production with concentration on current fabrics and techniques used in contemporary ready-to-wear. (1 hour discussion, 6 hours laboratory)

257. Introduction to Apparel Flat Pattern (3)

Prerequisites: FMD 152, 154, 155 or 251. Introduction to the design concept as it applies to flat pattern manipulation. Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

258. Fashion Merchandising and Design Practicum (3)

Prerequisite: FMD 154 or 252, 155, 251. Structured fashion retail work/learning experience designed to develop competencies in retail management or related fields. Students must obtain fashion retail salesperson position by first class period. Letter grade only (A-F). (Lecture-activity 3 hours)

UPPER DIVISION

351. Fashion Promotion and Sales (3)

Prerequisites: FMD 258, FCSE 296. Concepts, practices and procedures related to fashion promotion. Includes planning, directing and evaluating promotion activities such as visual merchandising, special events, publicity, and personal and non-personal selling. (Discussion 3 hours)

352. Computerized Apparel Flat Pattern (3)

Prerequisites: FMD 357, 359. Use of computer aided design software for apparel pattern development. Letter grade only (A-F). (Laboratory 6 hours)

353. Intermediate Textiles (3)

Prerequisites: CHEM 100 or 111A; FMD 253, FCSE 296. Interrelationship of fiber, yarn, structure, fabric geometry and finishing treatments to the textile's appearance, comfort, durability and maintenance. Letter grade only (A-F). (Lecture-discussion 2 hours, Laboratory 3 hours)

354. Analysis of Apparel Design and Tailoring (3)

Prerequisites: FMD 258 and 257. Analysis of traditional and contemporary processes in the design and production of tailored apparel. Application of apparel design and production process for couture, ready-to-wear, and individually produced garments. Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

355. Fashion Buying I: Planning and Buying Fundamentals (3)

Prerequisites: ELM Passase, NGCT 201, FMD 155, IS 233, FMD 258. Concepts, practices and procedures as well as calculations and computer applications as they relate to apparel retail profit. Includes inventory methods, operating statements and purchase planning procedures. Letter grade only (A-F). (3 hours lecture activity)
356. Fashion Buying 2: Planning and Buying Applications (3)
Prerequisites: FMD 355
Emphasis on developing a strategy for buying using concepts and skills developed in Fashion Buying 1. Buying tasks covered include: identifying and understanding potential customers, developing assortment plans, creating a six-month plan, and developing sales forecasts.
Letter grade only (A-F). (3 hours seminar)

357. Advanced Apparel Flat Pattern (3)
Prerequisites: ELM passage, FMD 253, 354.
Exploration of the total design concept as it applies to pattern manipulation.
Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

359. Advanced Computer Applications for Fashion (2)
Prerequisites: ICSL 256
Students refine their proficiency in drawing and designing apparel garments and fashion illustrations using computer paint style and illustration software.
Letter grade only (A-F). (6 hours activity)

450. Cultural Perspectives of Dress (3)
Prerequisites: Completion of G.E. Foundation courses; ANTH 120 or SOC 100 or 142 and upper division standing or consent of instructor.
Factors influencing design of textiles and apparel, techniques of textile and apparel production, and human behavior in the selection of dress in societies and cultural groups. Emphasis on symbolism of textiles and clothing designs as a communicative device for expressing social and cultural values. Impact of other cultures on western dress and impact of western dress on other apparel systems.
(Seminar 3 hours)

451. The Fashion Customer (3)
Prerequisites: FMD 351
Overview of theories on behavior of fashion customers and impact on fashion marketing strategies. Practical application on how to identify specific needs of fashion customers. Examination of impact of marketplace on fashion customers and of laws which protect them.
Letter grade only (A-F). (3 hours lecture discussion)

452. Apparel Draping (3)
Prerequisites: FMD 353, 357, 359 or consent of instructor.
Exploration of the total design concept as it applies to fabric manipulation.
Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

454. Experimental Apparel Design (3)
Prerequisites: FMD 452.
Exploration of clothing design and production through the experimental process. Individual investigation of the creative design process; evaluation of equipment, experiences with a variety of fabrics and techniques.
Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

455. Global Perspectives in Fashion Merchandising (3)
Prerequisites: FMD 351, 355, and MKTG 300, senior standing or consent of instructor.
Application of merchandising concepts for the budgeting, buying, promoting, and selling of fashion goods and apparel in global retail organizations.
Letter grade only (A-F). (Discussion 3 hours)

456. Historic Perspectives of Fashion (3)
Prerequisites: FMD 251, 253, HIST 131 or AH 111A.
Social, political, economic, geographic and religious forces that affect styles of fashion from antiquity to the present day. Emphasis is on the relationship of historic styles to current fashion. Primary focus is on the fashion influences of the western world.
Letter grade only (A-F). (Seminar 3 hours)

457. International Textiles and Apparel (3)
Prerequisites: ECON 100 and 101 or 300, FMD 353, senior standing, or consent of instructor.
Provides a framework whereby students critically examine the global textiles and apparel industry with emphasis on acquiring basic concepts of global trade. Historical, current, and future processes of globalization are analyzed including the importance of ethics and social responsibility.
Letter grade only (A-F). (3 hours lecture activity)

458. Fashion Product Development (3)
Prerequisites: FMD 353, senior standing, or consent of instructor.
The process of designing and engineering fashion products to be serviceable, producible, salable and profitable for various consumer market segments.
(Discussion 3 hours) Letter grade only (A-F).

492E. Internship in Fashion Merchandising (3)
Prerequisites: Student must be a major in Family and Consumer Sciences in the option of Fashion Merchandising; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; have approval of a faculty advisor in Fashion Merchandising and Design, consent of the instructor; and FMD 451 or 455 or 457.
Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student and supervisor must be approved by major advisor and form the basis for evaluation.
May be repeated for 6 units maximum. (Seminar 3 hours)

492M. Internship in Apparel Design (3)
Prerequisites: Student must be a major in Family and Consumer Sciences in the option of Textiles and Clothing; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; have approval of a faculty advisor in Fashion Merchandising and Design, have consent of the instructor; and FMD 452 or 454. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student and supervisor must be approved by major advisor and form the basis for evaluation.
May be repeated for 6 units maximum. Letter grade only (A-F). (Seminar 3 hours)
FILM AND ELECTRONIC ARTS
College of the Arts

Department Chair: Craig R. Smith
Department Office: University Telecommunications Center (UTC), Room 104
Telephone: (562) 985-5404
Faculty: Jack Anderson, Michael Berlin, Tom Blomquist, Sharyn Blumenfeld, Brian Alan Lane, Jerry Mosher, Michele C. Pounds, Jose Sanchez-H., Craig R. Smith, Diana Wagman
Administrative Coordinator: Donna Thomas
Instructional Support Technician: Steve Hubbert
Information Technology Consultant: Robert Pihy

Career Possibilities
Technical Director • Sound Effects Technician • Film Editor • Producer • Director • Screenwriter • Script Reader • Studio Operations Engineer • Sales Representative for Video Equipment • Teacher • Media Specialist • Public Relations Specialist • Sound Technician • Filmmaker • Cinematographer • Costume Designer • Production Coordinator
(Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
Film and Electronic Arts is an innovative program that emphasizes both theory and practice. Focusing upon the integration of media and the arts, as well as upon the impact of technology on our culture, the curriculum is designed to provide technical skills while developing a foundation in the arts and the humanities.

The faculty provides a variety of expertise and interests which cross traditional media lines while integrating the traditional film, audio, and video production modes.

Career Possibilities

Admission Under Impaction
To be eligible for admission to the major in Film and Electronic Arts, applicants must demonstrate the following prior to the semester for which the application is submitted.

Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have a minimum grade point average of 3.0. The number of applicants who can be admitted is limited by space availability. A minimum of 42 semester units applicable to a CSULB degree must have been completed prior to the term for which admission to the major is sought. Eligible applicants will be selected for admission based on cumulative grade point average.

Transfer students must apply to the University during the initial filing periods for fall or spring semesters.

Currently enrolled students who meet the requirements listed above must submit an Application to the Upper-Division Major form to the Film and Electronic Arts Department by February 1 for the fall semester or October 1 for the spring semester.

Supplemental Screening Criteria
1. During or before the first semester as a declared major, students must complete FEA 299 with a grade of "B" or higher.
2. Students must attempt to fulfill the Graduation Writing Assessment Requirement (GWAR) by the end of the semester in which FEA 299 is completed.
3. Completion of ART 110 or AH 111B.

Students who fail to meet the supplemental screening criteria may not continue in the major and may re-apply only once in accordance with University policy regarding impacted majors.

Bachelor of Arts Film and Electronic Arts

Two B.A. degree options are offered by the department: one in Film and Electronic Media (code FEA_BA01) and one in Film and Video Production (code FEA_BA02).

Students in both options must complete all requirements, prerequisites, and electives in residence at the upper division level.

Option in Film and Electronic Media (code: FEA_BA01) (120 units)

51 units required for the major.

Students are admitted to this option by virtue of meeting the Admission Requirements and Supplemental Screening Criteria listed above.

Requirements
1. Major screening course: FEA 299 with a "B" or better.
3. Media Practice Core (choose two courses from one of the following tracks for a total of 6 units)
   A. Post-Production: FEA 307, 320, 322, 415, 416
   B. Management: FEA 322, 327, 376
   C. Writing: FEA 303, 304, 322, 404, 408
   D. Animation: FEA 337, 437
4. Culture, Media, and Politics (choose three): FEA 310, 317, 318, 380, 394, 412, 466
5. International Media (choose three): FEA 392A, 392B, 392C, 392D; only one of the following may be used to meet this requirement: FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 450, FEA 458/RUSS 428, SPAN 428
6. Electives (12 units): This requirement can be met with a sequence of elective courses in FEA. With prior advisor approval, certain non-FEA courses may be counted toward this requirement.
7. Senior Thesis Course: FEA 401.

Option in Film and Video Production (code: FEA_BA02) (120 units)

51 units required for the major.

Students meeting the requirements for admission to the major may apply for admission into the production option by presenting a portfolio to the department in January of their
Minor in Film and Electronic Arts  
(code FEA_UM01)

Total Units Required: 21 units.

Students are admitted to the minor after having completed a minimum of 30 units of college-level course work including all 12 units of General Education Foundation courses with a cumulative GPA of 3.0 or higher.

Requirements
1. Complete FEA 299 with a "B" or better.
2. Complete FEA 206, 303, 310.

Students should consult a departmental advisor regarding ways by which elective units can be grouped into specialized tracks. For example, a basic management skills set might include 327, 376; a basic sound mixing skills set would include 307 and 320; a documentary track would include 380, 382, and 383. Program planners are available from departmental advisor.

Courses (FEA)

LOWER DIVISION

205. Film History (3)
Prerequisites: Major status, FEA 299.
Historical development of cinema.
Letter grade only (A-F).

206. History of Broadcasting (3)
Prerequisites: Pre-major or Major status.
Historical development of broadcasting media and technology with examination of interrelationships between forms, industry, social trends, and culture.
Not open for credit to students with credit in FEA 300. Letter grade only (A-F).

299. Media Aesthetics (3)
Prerequisites: Pre-major or Major status.
Study of aesthetic principle governing media productions. Emphasis on relationships between various art forms and development of critical vocabulary.
Letter grade only (A-F). Not open for credit to students with credit in FEA 599.

UPPER DIVISION

302. Classical Film Theory (3)
Prerequisites: Major status, FEA 299 with "B" or better, or consent of instructor.
Introduction to classical and critical theories of film analysis including Formalism, Realism, Classical Hollywood Cinema, the Auteur Theory, Art Cinema, Genre Studies, and Structuralism.
Letter grade only (A-F).

303. Film and Electronic Media Writing (3)
Prerequisites: Major status, FEA 299 with "B" or better and or consent of instructor.
Study of scripting and other writing skills unique to audio, video, and film.
Letter grade only (A-F).
304. Writing the Short Script (3)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Scriptwriting with emphasis on adaptation and dramatic fiction.
Letter grade only (A-F).

307. Audio Production (3)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Basic principles and techniques of audio production.
Letter grade only (A-F). Course fee may be required. (3 hours lab)

309. Production I: Cinematography (3)
Prerequisite: Admission to Option in Film/Video Production. Basic principles of cinematography and lighting.
Letter grade only (A-F). Course fee may be required. (3 hours laboratory)

310. Media, Ideology and Culture (3)
Prerequisites: Completion of General Education Foundation requirement.
Exploration of the ways media create, pattern, shape, reinforce and/or change culture. Variety of viewpoints, derived from contemporary critical and cultural studies, highlights relationship between culture and images.

312. Television Programming Symposium (3)
Discussion and analysis of creative problems in television industry, current local and network programs. Interviews with visiting executives, producers, directors, writers, performers and technicians.
May be repeated to a maximum of 6 units, only 3 units may be used as credit toward major.

313. New Technologies in Film and Electronic Media (3)
Prerequisites: FEA 206.
Study of developing technologies in film and electronic media, production, distribution, and exhibition. Focus on economic, social, and policy issues raised by technological innovation and the impact of new technology on the industry.
Letter grade only (A-F).

314. Theatrical Film Symposium (3)
Lectures and discussions of creative problems in motion picture industry, current films; interviews with visiting producers, directors, writers, performers and technicians.

316. Mass Media and Popular Culture (3)
Prerequisite: Completion of General Education Foundation requirement.

317. Women in the History of U.S. Film (3)
History of women as they are represented, presented as images, or constructed in the development of U.S. film. Theory and analysis of film from a feminist perspective.
Same course as WSSS 316. Not open for credit to students with credit in WIST 316 or WSSS 316.

318. Theory of Fiction and Film (3)
Prerequisites: Completion of the G.E. Foundation, one or more G.E. Explorations courses, and upper-division standing.
Examination of narrative methods and conventions of American and British fiction and methods and conventions of film; consideration of relationships between artistic structure of fiction and film; study of theoretical and practical approaches to fiction and film.
Same course as ENGL 318. Not open for credit to students with credit in ENGL 318.

320. Sound Design (3)
Prerequisites: Major status, FEA 307
Examination of the basic aesthetic and technical principles of sound design for film and video production.
Letter grade only (A-F). (9 hours lab)

322. Diverse Media: Writing and Production (3)
Diverse Media: Writing/Production
Prerequisite: Major status or consent of instructor.
Workshop in professional writing and production of film, television, theatre, and diverse media. Working as a group, students develop, and exhibit creative works. Provides a professional production experience covering various genres and formats. Not open for credit to students with credit in FEA 403. Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters.

325. Audio Activity (2)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Group and individual experience in audio production. Specific assignments determined in consultation with instructor.
Credit/No Credit grading only. May be repeated to a maximum of 4 units in different semesters. (4 hours lab)

327. Production Management (3)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Examination of the step-by-step process of budgeting and scheduling feature length motion pictures. Students will learn methods and procedures of breaking down a script, analyzing production elements, preparing a production board, scheduling principal photography, and preparing a comprehensive budget.
Letter grade only (A-F).

328. Film and Video Lighting (3)
Prerequisites: FEA 309. Priority enrollment given to students in Film/Video Production Option.
Examination of the basic aesthetic and technical principles of film and video lighting. Students will explore various creative lighting styles and techniques through lectures and practical exercises.
Letter grade only (A-F).

335. University Television Activity (2)
Prerequisites: Consent of instructor.
Experience in administration and production of video projects at the University Television facility.
Credit/No Credit grading only. May be repeated to a maximum of 4 units. (4 hours lab)

336. Production II: Film Production (3)
Prerequisite: Admission to Option in Film/Video Production; Corequisites: FEA 328.
Preparation for the advanced level of film and video production through research and exercises designed to develop essential filmmaking and video graphic skills.
Letter grade only (A-F). Course fee may be required. (Production laboratory 9 hours)

337. Digital Arts Production (3)
Prerequisite: Major status or consent of instructor.
Techniques and concepts involved in production of visual effects, computer animation, and interactive media. Through screenings, fieldtrips and hands-on production, students explore art and science of digital graphics, 3D-compositing, and 3D-animation. Culminates in development of digital elements for student production.
Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters.
338. Television Studio Production (3)
Prerequisites: Major status, FEA 299 or equivalent or consent of instructor.
Course will provide an introduction to principles, techniques and technologies of television studio production, with emphasis on multiple camera approaches to interview, sitcom, music performance and public affairs programs.
Letter grade only (A-F). (Laboratory 9 hours)

339. Commercials for Electronic Media (3)
Prerequisites: Junior/Senior standing or consent of instructor.
Experience of creating, writing and producing commercials that entertain, demonstrate and motivate the target audience.
Letter grade only (A-F).

340. Production III: Advanced Production A (3)
Prerequisites: FEA 336 and approved enrollment in Advanced Narrative Production Track. Experience in group production of original films and videos.
Emphasis is on narrative short projects. Students are required to collaborate with advanced cinematography students in FEA 341.
Letter grade only (A-F). Course fee may be required.

341. Advanced Cinematography I (3)
Prerequisites: FEA 328 and 336 and approved enrollment in Advanced Cinematography Track.
Designed to further student's understanding of art and craft of cinematography, especially lighting, exposure, composition, lenses, film stocks, video formats, filters, telecine, and lab procedures. Students are required to shoot and edit on advanced narrative projects produced in FEA 330.
Letter grade only (A-F). (9 hours laboratory) Course fee may be required.

342. Production IV: Advanced Production B (3)
Prerequisites: FEA 340 and approved enrollment in Advanced Narrative Production Track.
Experience in post production and completion of original films and videos resulting in public exhibition. Emphasis is on film editing.
Letter grade only (A-F). (Laboratory 9 hours)

343. Advanced Cinematography II (3)
Prerequisites: FEA 341 and approved enrollment in Advanced Cinematography Track.
Designed to further student's understanding of art and craft of cinematography. Emphasis is on individual research into specific issues of film and video image making and production of short film and video projects in support of research.
Letter grade only (A-F). (9 hours laboratory) Course fee may be required.

344. Directing (3)
Prerequisites: Admission to the Option in Film/Video Production.
Theory and practical experience in directing of narrative film. Emphasis on directing actors in fictional work.
Letter grade only (A-F).

346l. The European Cinema of Communism, Fascism and Resistance (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses and upper division standing.
Focuses on European cinema of the twentieth century as a manifestation of totalitarian and ideological movements preceding, in-between and following the two world wars. The ensuing and ongoing resistance movements will also be examined.
Same course as HIST 346, RGR 346. Not open for credit to students with credit in HIST 346L, RGR 346L.

350. Hollywood Does Rome (3)
Prerequisites: CLSC 100 or 101 or 202 or consent of instructor.
An investigation of the filmmaker's motives and the methods they have used to portray the ancient Romans from the beginnings of cinema to the present. Topics include "imagining" the past, the "power" of the image, community and society, cultural imperialism, film theory, "language" of myth, and reception theory.
Same course as CLSC 350. Not open for credit to students with credit in CLSC 350.

355. Audio-Video-Film Activity (1)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Group and individual experience in areas of audio-video-film production, and broadcast education. Specific assignments determined in consultation with instructor.
Credit/No Credit grading only. May be repeated to a maximum of 2 units. (2 hours lab)

360. Independent Television Field Production (3)
Prerequisite: FEA 338 or consent of instructor.
Introduction to the creative and managerial requirements of independent television program production. Direct experience with field production for an independent television production company that supplies ongoing cable programming.
Letter grade only (A-F).

378. Film and Electronic Media Sales and Promotion (3)
Prerequisites: Major status, FEA 299 with "B" or better or consent of instructor.
Study of marketing, promotion, and sales among film distributors, production companies, program suppliers, broadcast networks, cable systems, local radio, television, and cable operators. Theory and application of media research principles, promotion strategies, Development of selling skills.
Letter grade only (A-F).

380. Documentary History and Theory (3)
Prerequisites: FEA 206 and 302 or consent of instructor.
Critical study of history, methods, and aesthetics of documentary production. Focus on problems of representation, objectivity, and personal style.
Letter grade only (A-F).

381. Directing the Documentary (3)
Prerequisite: FEA 336. Conquisite: FEA 380.
Exploration of theory and practice of documentary filmmaking. Emphasis on relationship between documentary and fiction film. Production requirement will include shooting and editing a 5-10 minute documentary film/video.
Letter grade only (A-F). Course fee may be required. (Laboratory 9 hours)

382. Digital Documentary Production I (3)
Prerequisites: FEA 336 or consent of instructor.
Theory and practice: researching, structuring, writing, directing and producing a comprehensive digital video documentary (to be completed in FEA 383) with equal emphasis on the interview and visual storytelling.
Letter grade only (A-F). Course fee may be required. (9 laboratory hours)

383. Digital Documentary Production II (3)
Prerequisites: FEA 302 or consent of instructor.
Theory and practice: producing and editing a comprehensive digital video documentary with special emphasis on narration, sound effects, and music. This will entail the completion through post-production of videos begun in FEA 382.
Letter grade only. (Laboratory 9 hours)
392. International Cinema (3)
Prerequisites: FEA 206 and 302, or consent of Instructor.
Variable topics explore domain of international cinema.
Topics announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.
A. European Cinema 1930-1980
B. European Cinema 1960-1990
C. Latin American Cinema
d. Japanese Cinema
E. Spanish Cinema
(Same course as SPAN 428. Not open for credit to students with credit in SPAN 429)

394. American Film Genres (3)
Prerequisites: FEA 206 and 302 or consent of instructor.
Historical and critical examination of Hollywood film genres.
Genres include Western, film noir, science fiction/horror, detective/ gangster, musical, war films, Seventies and family melodrama.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters.

401/501. Contemporary Film Theory (3)
Prerequisites: FEA 206 and 302 or consent of instructor.
Study of contemporary theoretical models of film analysis and
evaluation. Topics include: spectators, Post-Structuralism, Feminism, Psychoanalytic theory, Narratology, Cultural Studies, Postcolonialism, queer theory, Postmodernism, and Reception Studies.
Letter grade only (A-F).

404. Advanced Scriptwriting for Film and Electronic Media (3)
Prerequisites: FEA 303 or 304 with a "D" or better, or ENGL 405 or 407 with a "B" or better, or consent of instructor.
Writing dramatic and comedic screenplays and teleplays. Includes study of produced models with emphasis on the creative process.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

405/505. Comedy Writing (3)
Prerequisites: FEA 303 or 304 with a "D" or better, or ENGL 405 or 407 with a "B" or better, or consent of instructor.
Study of a variety of historical and contemporary models. Practice in the creation of pilot pieces: stand-up routines; scripts for television, film, and other media. Heavy focus on comedy as social, political, and technological criticism.
Letter grade only (A-F).

408/508. Writing the Screen Adaptation (3)
Prerequisites: FEA 303 or 304 with a "D" or better, or ENGL 405 or 407 with a "D" or better, or 508, approval of the MFA (Screenwriting) Coordinators or consent of instructor.
Writing script adaptations, with a study of adaptation theory and successful adaptional models.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

412. American Television and African Americans (3)
Prerequisites: FEA 206 and 310 or consent of instructor.
Comparative examination of the depiction of African Americans in American network and syndicated television in a variety of types of programs.
Letter grade only (A-F).

415. Media Editing (3)
Prerequisites: Admission to the Option in Film/Video Production or consent of instructor.
Principles of non-linear editing in post-production.
Letter grade only (A-F).

416. Advanced Media Editing (3)
Prerequisites: FEA 415, Admission to Option in Film/Video Production or consent of Instructor.
Advanced course in which students edit a project from dailies to final master, using new AVID Media Composer HD, Final Cut Pro, and principles of Hi-Def.
Letter grade only (A-F).

437. 3D Computer Animation (3)
Prerequisites: FEA Majors only, FEA 337 or permission of instructor.
Techniques and concepts in the production of 3D computer animation for short and feature length productions, visual effects and games.
Letter grade only (A-F).

438. Television Studio Directing (3)
Prerequisites: FEA 338 or consent of instructor.
Advanced seminar expanding on the principles, techniques, and technologies of television studio production. Emphasis on multiple camera directing of interview, sitcom, music performance, and public affairs programs.
Letter grade only (A-F). (3 hours laboratory)

454. Italian Cinema (3)
Historical and critical examination of Italian cinema.
Letter grade only (A-F). Same course as ITAL 454. Not open for credit to students with credit in ITAL 454.

456. French Cinema (3)
Historical and critical examination of French cinema.
Letter grade only (A-F). Same course as FREN 456. Not open for credit to students with credit in FREN 456.

457. Between Berlin and Hollywood: German Cinema (3)
Acquaint students with art of the medium, and history of German film, particularly as it is realized through work of the artist most responsible for its success or failure, in this case, the director.
Letter grade only (A-F). Same course as GERH 456. Not open for credit to students with credit in GERH 456.

458. Russian Cinema (3)
Prerequisites: Upper division standing.
Focuses on socio-political and aesthetic aspects of Russian Cinema, delineating following periods: Soviet Silent Cinema, Socialist Realism, Cinema under Thaw, Cinema under Brezhnev and contemporary cinema.
Letter grade only (A-F). Same course as RUSS 428. Not open for credit to students with credit in RUSS 428.

461. Alternative Media (3)
Prerequisites: Completion of the G.E. Foundation, one or more Explorations courses, and Upper-Division standing.
Critical study of censorship and suppression of information in mainstream media by governmental and corporate entities. Focus on importance of freedom of information and access to diverse viewpoints. Students research environmental, multicultural, peace, and other issues utilizing alternative media.

490/590. Special Topics in Film and Electronic Arts (3)
Major topics. For 590: Conditional Classified Status in the MFA (Screenwriting) Degree Program or Conditional classified or Full Status in the MFA (Creative Writing Degree Program, or consent of instructor.
Topics of current interest in radio-television-film studied for intensive development.
Topics will be announced in the Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 9 units with different topics; only 6 units may be applied toward the U.A.
492. Internship (3)
Prerequisites: Senior standing in major or consent of instructor.
Students intern with cooperating media facilities.
Credit/No Credit grading only. May be repeated to a maximum of 6 units. (6 hours lab)

498./598. Advanced Seminar (3)
Prerequisites: FEA 299 with a "B" or better and senior standing in the FEA major. For 598: Conditional Classified Status in the MFA (Screenwriting) Degree Program or consent of instructor.
Intensive study of significant issues in film and electronic media.
Letter grade only (A-F).

499./599. Special Projects in Film and Electronic Arts (1-3)
Prerequisites: Major status. FEA 299 with a "B" or better. For 599: Conditional Classified Status in the MFA (Screenwriting) Degree Program or consent of instructor.
Research into an area of special interest to the student, culminating in a research paper or production. Productions will be limited by equipment and facilities available during any term.

GRADUATE LEVEL

501./401. Contemporary Film Theory (3)
Prerequisites: FEA 302 and 406/506 and an additional 6 units in film studies or consent of instructor.
Study of contemporary theoretical models of film analysis and evaluation. Topics include: Spectatorship, Post-Structuralism, Feminism, Psychoanalytic Theory, Narratology, Cultural Studies, Postcolonialism, Queer Theory, Postmodernism, and Reception Studies.
Letter grade only (A-F).

505./405. Comedy Writing (3)
Prerequisites: FEA 303 or 304 with a "B" or better, or ENGL 405 or 457 with a "B" or better, or consent of instructor.
Study of a variety of historical and contemporary modes. Practice in the creation of print pieces; stand-up routines; scripts for television, film, and other media. Heavy focus on comedy as social, political, and technological criticism.
Letter grade only (A-F).

508./408. Writing the Screen Adaptation (3)
Prerequisites: FEA 303 or 304 with a "B" or better, or ENGL 405 or 457 with a "B" or better. For 508: approval of the MFA (Screenwriting) Coordinators or consent of instructor.
Writing script adaptation, with study of adaptation theory and successful adaptation models.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

590./490 Special Topics in Film and Electronic Arts (3)
Prerequisites: Major status. For 590: Conditional Classified Status in the MFA (Screenwriting) Degree Program or Conditional Classified or consent of instructor.
Topics of current interest in film and electronic arts selected for intensive development.
Topics will be announced in the Schedule of Classes. Letter grade only (A-F). May be repeated for a maximum of 9 units with different topics, only 6 units may be applied toward the B.A.

598./498 Advanced Seminar (3)
Prerequisites: FEA 299 with a "B" or better and senior standing in the FEA major. For 598: Conditional Classified Status in the MFA (Screenwriting) Degree Program or consent of instructor.
Intensive study of significant issues in film and electronic arts.
Letter grade only (A-F).

599./499. Special Projects in Film and Electronic Arts (3)
Prerequisites: Major status, FEA 299 with a "B" or better. For 599: Conditional Classified Status in the MFA (Screenwriting) Degree Program or Conditional Classified or consent of instructor.
Research into an area of special interest to the student, culminating in a research paper or production. Productions will be limited by equipment and facilities available during any term.

604A. Graduate Seminar in Dramatic Writing (3)
Prerequisites: FEA 604A and consent of instructor.
Advanced workshop in intensive thematic and collaborative writing, reading, criticism, media history, aesthetics, and instructional paradigms, as students write, workshop, revise, and complete a long-form screenplay.
Letter grade only (A-F).

604B. Graduate Seminar in Dramatic Writing (3)
Prerequisites: FEA 604A and consent of instructor.
Advanced workshop in intensive thematic and collaborative writing, reading, criticism, media history, aesthetics, and instructional paradigms, as students write, workshop, revise, and complete a long-form screenplay.
Letter grade only (A-F).

604C. Graduate Seminar in Dramatic Writing (3)
Prerequisites: FEA 604A and 604B, or consent of instructor.
Advanced workshop in intensive and collaborative writing for media, including long-form screenplay development and drafted to completion by class as a group, then submitted to industry professionals, and finally revised pursuant to creative commentary and business necessity.
Letter grade only (A-F).

604D. Graduate Seminar in Dramatic Writing (3)
Prerequisites: FEA 604A and 604B, or consent of instructor.
Advanced seminar and intensive workshop in creative writing, reading, criticism, media history, aesthetics, and the teaching of a creative writing curriculum. Course leads students to completion of their Thesis Project Proposal.
Letter grade only (A-F).
Option in Finance (code FIN__BS01) (120 units)

The objective of the finance curriculum is to prepare students for a successful career in business with an understanding of the financial decision making process and its impact within the overall framework of the business enterprise. The finance curriculum offers education in the management techniques and regulations applicable to financial management and investments. The curriculum draws on fundamental knowledge of statistics, computer logic and economics to develop advanced financial concepts. It explores the historical and current roles of various financial institutions and regulatory authorities; details the basic principles and techniques for valuing financial instruments on the basis of fundamentals and/or historical pricing trends; explores the methods of managing risk; and examines financial principles that govern international trade. The finance major may direct the concentration toward financial management or investments.

The financial management concentration provides an opportunity for the student to gain an understanding of the role of finance in the corporate environment. An understanding of investments at both the corporate and personal level is the objective of the investments concentration. Within these concentrations students are provided with an opportunity to gain an understanding of the role of the various aspects of law in a business context, including the development of a comprehensive understanding of business ethics.

Financial Management Concentration
1. FIN 350, 400, 470, 490.
2. Three units selected from: FIN 360, 370.

Investments Concentration
1. FIN 390, 450, 485.
2. Six units selected from: FIN 400, 410, 480, 490, or 499A and 499B.

Financial Institutions Concentration
1. FIN 350, 360, 400.
2. Six units selected from FIN 330 or 340, 460, 490.

Financial Engineering Concentration
1. FIN 350, 480, 485, 487.
2. Three units selected from: FIN 410, 450, 490, and a course in computer programming that is subject to approval of Department Chair.

Due to limited number of available openings, applicants will be chosen according to GPA, interest level, and personal interviews. Contact Finance department for further qualification requirements.

Undergraduate Programs

Bachelor of Science in Business Administration

Requirements
In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.
1. ACCT 201, ECON 100, 101; BLAW 220, MATH 108 or 114, 115, and PHIL 160 or 170.
2. All business and pre-business majors shall demonstrate computer literacy and competency prior to taking junior and senior level courses. Requires one of the following:
   A. Passing score (70%) on the Computer Proficiency Examination (CPE).
   B. Completion of IS 233 with Credit (C) or "C" or better grade in a transfer equivalent course.
3. Upper Division:
   A. CBA 300; ACCT 310; ECON 333; FIN 300; BLAW 320; IS 300, 301, 310, HRM 360, MGMT 300, MKTG 300.
   B. MGMT 425 (Capstone) must be taken at CSULB as a senior and after the upper division prerequisite core courses have been completed (ACCT 310, FIN 300, MGMT 300, MKTG 300, IS 301).
4. Completion of Finance, Real Estate and Law Option requirements.
5. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.
Courses (FIN)

UPPER DIVISION

300. Business Finance (3)
Prerequisites: ACCT 201 or equivalent, MATH 108 or MATH 115 or equivalent, ECON 100 or ECON 101 or equivalent.
Introductory course for all business majors. Integration of computer applications and management information systems in: (1) Time Value of Money, Risk, Valuation, Cost of Capital; (2) Capital Budgeting; (3) Long-Term Financing Decisions; (4) Working Capital Policy and Management; (5) Financial Analysis and Planning; (6) International Finance; (7) Special topics including Mergers, Acquisition and Bankruptcy.
Letter grade only (A-F).

309i. The Consumer in the Legal and Economic Environment (3)
Prerequisites: Completion of the G.E. Foundation, one or more Explorations courses; upper-division standing.
Economic and ethical components of consumer issues integrated with consumer law. Economic, legal and regulatory environment of consumers for disputing regarding fraudulent transactions, financial matters, personal and real property contracts, torts, credit and investment issues, and family relationships.
(Lecture Discussion 3 hours.) Same course as CA/F 309i. Not open for credit to students with credit in CA/F 309i.

310. Personal Finance (3)
Financial analysis planning and management for the individual.
Topics include owning and financing a home, minimizing taxes, goals and strategies for investing, budgeting, savings plans, controlling expenses and credit usage, determining insurance needs, and planning retirement.
Letter grade only (A-F).

330. Insurance Principles (3)
Principles of risk-bearing and insurance. Life and property-liability insurance needs of the individual. Types of carriers and insurance markets; organization and functions of carriers; industry regulation.
Letter grade only (A-F).

340. Real Estate Principles (3)
Real estate markets, institutions and activities from the perspective of the decision makers involved in real estate. Fundamental physical, legal, regulatory, economic, mathematical and taxation considerations influencing real estate decision and values.
Letter grade only (A-F).

350. Investment Principles (3)
Prerequisite: FIN 300.
Investment markets and transactions; sources of investment information; return vs. risk; margin trading and short selling; investment planning; investing in equities and fixed income securities; speculative tax-sheltered investments; gold and other tangibles; portfolio management. Demonstrations and use of microcomputer technology.
Letter grade only (A-F). Course fee may be required.

360. Capital Markets (3)
Capital formation, rates, markets and institutions. Flow of fund analysis, intermediation, interest rate structures, risks and liquidity.
Letter grade only (A-F).

370. Working Capital Management and Cash Budgeting (3)
Prerequisite: FIN 300.
An introduction to working capital management and policy issues in general and how to manage short term assets and liabilities in particular. Cash forecasting and budgeting and short term investing and financing will be the focus of the course.
Letter grade only (A-F).

400. Intermediate Financial Management (3)
Prerequisites: FIN 300 and ACCT 310 or 320, IS 301.
An intermediate-level, lecture-discussion course in corporate finance. Topics include: cash budgeting, capital budgeting, business acquisition and mergers, cost of capital, and international finance.
Letter grade only (A-F).

410. Microstructure on Institution Services (3)
Prerequisites: FIN 300, IS 301.
Capital markets ranging from securities trading to corporate financing through private placement under public offerings.
In class trading simulations. Various market trading structures; various financing techniques as permitted under the SEC regulations. Use of simulation software.
Letter grade only (A-F).

450. Portfolio Analysis (3)
Prerequisite: FIN 300, IS 301.
Microcomputer technology to perform security analysis including bonds and the bond market, stocks and the stock market, security valuation, fundamental and technical analysis, portfolio management and risk-reward relationships. Microcomputer software programs that perform security analysis and portfolio management, numerous databases.
Letter grade only (A-F). Course fee may be required.

460. Management in Financial Institutions (3)
Prerequisites: FIN 300, IS 301.
Students will be introduced to management of banks and other depository financial institutions.
Banking trends and introductory topics. Asset and Liability Management. Capital adequacy and Management of investment portfolios will be the main focus of the course.
Letter grade only (A-F).

470. Seminar in Financial Management (3)
Prerequisites: FIN 300, IS 301.
This course is designed to enhance students' comprehension of finance theories through case studies. The subject of each designed case is related to specific finance subjects including estimation of cost of capital, resource allocation and capital budgeting, IPOs, stock repurchase, dividend policy, agency cost, and mergers and acquisitions.
Letter grade only (A-F).

480. Derivatives (3)
Prerequisites: FIN 300 and 350, IS 301.
Exchanges, operation of firms, trading mechanics, and construction of a personal-risk profile analysis. Traditional decision variables, including construction of a 2-term portfolio. Basis in futures prices, theory of storage prices, hedger and speculator behavior, and stochastic nature of futures prices.
Letter grade only (A-F). Course fee may be required.

485. Fixed Income Securities (3)
Prerequisites: FIN 300, IS 301.
The course analyzes fixed income securities option embedded fixed income securities and interest rate derivatives. Usual duration and convexity analysis, and the interest rate stochastic processes and other forecasting techniques will be studied. New trends of fixed income securities, various collateralized bond obligations and other asset backed securities, and interest rate arbitrage techniques will be introduced.
Letter grade only (A-F).

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487. Mathematical Modeling in Finance (3)
Prerequisite: FIN 300, IS 301.
Various mathematical and statistical tools will be used in building financial models. Basic mathematical and statistical tools and how these quantitative tools can be utilized in real world valuation models will be demonstrated. The course also applies the languages to the implementation of various quantitative financial models.
Letter grade only (A-F).

490. International Finance (3)
Prerequisite: FIN 300, suggested, CBA 300, IS 301.
International trade theories, international payments, currency value fluctuations and exchange rates, international capital markets, roles of developing countries, international institutions and multinational enterprises. Individual research required.

495. Selected Topics (1-3)
Prerequisite: Consent of instructor, IS 301.
Intensive study of current topics of interest in finance. May be repeated to a maximum of 6 units. Topics will be announced in the Schedule of Classes.

497. Directed Studies (1-3)
Prerequisites: Consent of instructor and Department Chair; on Dean's List and 3.0 GPA or higher in finance. Individual projects, study and research of advanced nature in finance.

499A-B. Applied Portfolio Management (3-3)
Prerequisites: FIN 499A: FIN 350, 400, 450 (either or both FIN 400 and 450 may be taken concurrently), and consent of instructor and Department Chair; IS 301; FIN 499B: FIN 459A and consent of instructor and Department Chair; FIN 499A to be offered in Fall and accepted students must enroll in FIN 499B in Spring.
Participation in management of actual investment portfolio. Research, monitor, and analyze securities and make, buy and sell recommendations for a student-managed investment fund. Contribute to publication of semi-annual fund report. Market, sector and firm analysis with presentations and outside research. Letter grade only (A-F).
FOOD SCIENCE
College of Health and Human Services
Department of Family and Consumer Sciences

Department Chair: Wendy Reiboldt
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone / Fax: (562) 985-4484 / 985-4414
Website: www.csulb.edu/colleges/chh/department/fcs

Faculty: Judith Argin, Lee Blecher, Maria Claver, Gail C. Frank, Avery E. Goldstein, James E. Koval, Jacqueline Lee, Marjorie Lichty, Suzanne Marshall, Nilufar Medora, Wendy Reiboldt, Lydia Sondhi, M. Sue Stanley, Ramesses B. Torna (Emeritus), Richard V. Turvson, Jung-Moo (Ronnie) Yih
Baccalaureate Program Coordinator: Richard V. Turvson
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichty
Administrative Support Coordinator: Mikel Lok, Marina Bordenley
Instructional Support Technician: Bonnie Rice

Career Possibilities
Principal Food Scientist • Research Associate • Food and Packaging Engineer • Quality Assurance Manager • Research and Development Chemist • Quality Control Chemist • Laboratory Supervisor • Plant Manager • Food and Drug or USDA Inspector • Food Product Evaluator • Food and Ingredient Sales Representative (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Dietetics and Food Administration

The Department of Family and Consumer Sciences offers students a Bachelor of Science degree in Dietetics and Food Administration with two option areas of study:
• Nutrition and Dietetics
• Food Science

Specific degree and certificate information as well as option requirements are listed under each option alphabetically in this Catalog.

Requirements for the major include a minimum of 120 units for Food Science. The courses which provide these units are determined by the option the student chooses. In addition to general education requirements (48 units), a minimum of 40 units in Family and Consumer Sciences is required, 24 of which must be upper division. Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this University and it is accepted by the University.

Food Science

The Food Science curriculum has an interdisciplinary focus which includes food science, food processing, sensory evaluation, nutrition, chemistry, and microbiology, plus a variety of supporting course work in related disciplines. All courses are designed to develop an understanding of the physical and chemical nature of foods and how it relates to the food industry and consumer safety. The food industry careers awaiting graduates offer diverse opportunities as the world supply expands with technological developments. Career options for professionals in the field of food science include: research and product development, food formulation and processing, consumer safety, sensory evaluation, quality assurance, government organization, and food ingredient sales and marketing.

Option in Food Science (code FCS_BS02) (120 units)

Requirements
BIOC 207; ED P 419 or H SC 403; CHEM 101, 111A, 327, and 448; CAFF 321H; COMM 110, ENGL 101 or 317; FCS 202, 206, 481; FSCI 330, 332, 333, 334, 432, 435, 469, 492F; HPHM 235; MATH 113; MIRC 200, 203, 303, 494; NUTR 132, 224, 313A, 336, PSY 100 or SOC 100, and 10 units to be selected from: CHEM 111B; FCS 497; NUTR 331B; HPHM 275, 477; IS 233 or 300.

Minor in Food Science (code FCS UM04)

Significant preparation for employment in the Food Science Industry may be developed through completion of this program of study.

Eighteen units including FSCI 332, 333, 432, 435, 492F; 3 units selected from FSCI 330, 469, and FCS 497. It is the student's responsibility to adhere to all prerequisites listed below. Some of the prerequisites fulfill General Education requirements.
1. HPHM 235, CHEM 327, and MIRC 200 are prerequisites for FSCI 332.
2. FSCI 332 is a prerequisite for FSCI 338, 432, 435, and 492F.
3. NUTR 132 and FSCI 332 are prerequisites for FSCI 330.

The Minor in Food Science is available to any non-Food Science major.

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330. Dairy Science (2)
Prerequisites: NUTR 132, HFHM 235.
Study of dairy science from chemical microbiological, processing, nutritional, and economic standpoints. Integration of recent technology as implemented to feature marketed dairy products both traditional and contemporary.
(Lecture-discussion 2 hours.)

332. Food Science (3)
Prerequisites: CHEM 327, HFHM 235; MICR 200 or equivalent.
Composition and structure of foods; chemical changes in foods that affect their color, flavor, texture, aroma, and nutritive quality during processing and preparation; techniques for food preservation.
Course fee may be required. (Lecture-discussion 2 hours, laboratory 3 hours.)

338. Introduction to Food Processing (3)
Prerequisites: FSCI 332.
Study of industrial concepts of food processing. Raw agricultural commodities through the production phases to a final product acceptable to consumers. (The course may include limited visitations to food preparation sites.)
(Lecture-discussion 3 hours.)

432. Food Analysis (3)
Prerequisites: CHEM 327, FSCI 332 or equivalent.
Application of scientific methods of food analysis. Ingredients, proportions, and techniques in food preparation affect the quality of products. Experimental laboratory problems.
Letter grade only (A-F). Course fee may be required. (Seminar 2 hours, Laboratory 3 hours.)

435. Food Processing, Preservation and Packaging (3)
Prerequisites: FSCI 332 or consent of instructor.
Methods and technological aspects in food processing, preservation and packaging. Application of principles and assessment of nutrition. Evaluation of chemical additives. Microbiological aspects of food.
(Lecture-discussion 2 hours, laboratory 3 hours.)

469. Food Product Development (1)
Prerequisites: FSCI 332, or consent of instructor.
Industrial concepts and technology as they apply to food product development and formulation. Includes principles of new product development, ingredient replacements, and product improvements. Development of a prototype, ingredient interactions, and product cost analysis.
Letter grade only (A-F). (Seminar 1 hour)

492F. Internship in Food Science (3)
Prerequisites: Student must be a Family and Consumer Sciences major; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Food Science; and FSCI 332. Each prerequisite course must be completed with a grade of "C" or better.
Field experience in which student assumes a pre-professional role in professional setting. Objectives by student with supervisor must be approved by major advisor and form the basis for evaluation. May be repeated for a maximum of 6 units. (Seminar 3 hours.)
Undergraduate Programs

Bachelor of Arts in French
(code RGR_BA01) (120 units)

The major in French consists of 36 upper-division units in the 300-400 level courses indicated below. The number of lower-division units will depend on the amount of French studied previously in high school or college, since students with prior study of French may enter at advanced standing (usually second or third year). The major program satisfies the requirements for the Single-Subject teaching credential in French, but credential candidates must take FREN 414 (Phonetics). Major students should be mindful of the Department’s second language requirement: two college years or equivalent of a second foreign language, other than English. The Department also recommends inclusion of specified history courses in the program of study. These courses offer additional enrichment to the cultural component of the student’s course of study.

Requirements

Lower Division Prerequisite: FREN 214. Does not count toward the required 30 units.

Upper Division: A minimum of 36 units of upper-division courses which must include FREN 312A, 312B, 314, 335, 336, 337, 411, 440, 480 and three of the following courses: 414, 456, 460, 462, 470, 471, 472, 474, 475, 476, 477, 479, 490; one of the following courses may also be used in this category: RGR 346I, 450I. Candidates for the teaching credential must take FREN 414.

Department Requirement: Two years of a second foreign language at college level or equivalent is required of all majors.

Departmental Recommendation: Students specializing in French should include the following courses in their program of study: HIST 131, 132, and one or more of the following: HIST 335, 336, 337. A selection from the following courses would also be appropriate: HIST 332, 333, RGR 346I, 450I.

Bachelor of Arts in French Studies
(code RGR_BA08)

Directors - Clorinda Donato, Stephen Flock
Advisors - Clorinda Donato, Stephen Flock
Program Office - AS 309

The Bachelor of Arts in French Studies provides students with a thorough basis in the study of French Language, History, Literature and Culture within a global context. Students completing the B.A. in French Studies will acquire an interdisciplinary understanding of French history, culture, and society that will prepare them for a broad range of career options both at home and abroad. These include international law and business, teaching, government and foreign service. In addition, the solid background in French and Francophone
history and literature provides a strong foundation for further study at the graduate level in a variety of M.A. and Ph.D. programs.

The French Studies Program situates California State University, Long Beach at the vanguard of scholastic innovation in the burgeoning field of cultural studies. The French Studies major provides a unique opportunity for students to address the cultural, economical, social, and political dimensions of Francophonie. This major reinforces California State University, Long Beach’s established and recognized record as a leader in offering students a global pedagogical experience that can be transferred to the working world of the present and the future.

To meet new demands for professionals, French Studies combines courses from literature, history, and other disciplines. French Studies will enable students to draw from a multifaceted disciplinary basis to interpret cultural phenomena and trends in a variety of global contexts. Students will receive training in historical, linguistic, and literary methods in the complementary areas of French and Francophone history and literature in this major. As the only public institution of higher education in California to approach French Studies at the undergraduate level from both global and cross-disciplinary perspectives, California State University, Long Beach recognizes the cooperative and symbiotic relationship connecting the disciplines of history and literature with respect to a comprehensive understanding of the Francophone World.

French Studies Majors are required to develop a program of study in consultation with the program advisor. In addition to assisting students in the development of the program planner and providing advice on post-graduate options, the program advisor and director maintain close contact with each student in the major. Courses for the program have been selected to foster synergistic growth in French language, literature, culture, and history. Students begin the major at the third-year level, after they have completed two years of college French (or have acquired the equivalent competency) and after they have completed course work in world history. At the third year they will take advanced language and composition, survey courses in French literature, historical methods, and 300-level French History courses. During the senior year, students will take French Civilization, specialized courses in the literature and history of France and the Francophone world, and the French Capstone course. Furthermore, students majoring in French Studies will be encouraged to avail themselves of the opportunity to participate in a study abroad or internship program.

Requirements

Upper Division: A minimum of forty-eight (48) units of upper division course work. Fifteen (15) units must come from the following History courses: HIST 334, 336, 337, 339 and 301. Twenty-one (21) units must come from the following French courses: FREN 312A, 312B, 336, 336, 337, 411 and 440. However, with the Program Director’s consent, the requirement of FREN 312A and 312B may be waived. The remaining twelve (12) units can be selected from the following courses (subject to prior approval of the Program Director and based on course content): HIST 435, 496, FREN 450, 470, 471, 472, 474, 477, 479, 480, 490.

Minor in French (code RGR_UM01)

A minimum of 20 units which must include: FREN 312A, 312B, 314, 411 and at least one other upper-division course in French to make a minimum total of 15 upper-division units. The Minor in French is available to any non-French major.

GRADUATE PROGRAMS

Master of Arts in French (code RGR_MA01)

Prerequisites

1. A bachelor’s degree in French, or:
2. A bachelor’s degree with a minimum of 24 upper-division units in French, comparable to those required of a major in French at this University. Deficiencies will be determined by the advisor after consultation with the student and study of transcript records.

Advancement to Candidacy

1. Approval of the graduate program by the graduate advisor, the faculty advisor and/or departmental committee, and the College of Liberal Arts Associate Dean of Graduate Studies.
2. The candidate should file for advancement upon completion of 6 units and preferably no more than 9 units on the program. A 3.0 GPA is required.
3. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).

Requirements

1. Completion of a minimum of 30 units of approved upper division and graduate courses, with a minimum of 24 units in the 500 and 600 series in French;
2. Specifically required courses include: FREN 580* and 696* (*students with a BA in French from CSULB see advisor);
3. Two years of one of the following languages: Italian, Portuguese, Spanish, German, or Russian, or pass an examination at Intermediate level in one of these languages. Major or minor in a second foreign language may be used to fulfill this requirement, upon approval by the Department. For other languages, consult the Graduate Advisor;
4. Maintain a GPA of at least "B" (3.0) in the major;
5. Pass comprehensive examinations on the Graduate Reading List in three areas to be selected by student upon consultation with Graduate Advisor;
6. No more than six units of transfer graduate credits are allowed, subject to approval by the Graduate Advisor. No more than six units of International Programs course work may be credited toward the 24-unit French requirement for the MA at this university;
7. Teaching Associates must take RGR 601, Teaching Methodology. These units do not count toward the required 30 units for completion of the MA.

Single Subject Teaching Credential, French (code 152)

Completion of the French major meets the subject matter competence requirement for the Single Subject Preliminary Credential in French (code 152). Prospective students...
should consult the undergraduate French Advisor and the Languages Other Than English (LOTE) Program Advisor early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective teachers of French are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergrad. Courses may also be completed as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.registrar.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

The French Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements
Same as for the major in French but including French Phonetics, FREN 414, as one of the 400-level courses.

French Courses (FREN)

LOWER DIVISION

101A. Fundamentals of French (4)
Prerequisite or corequisite: Any Foundation course.
Fundamental skills of speaking, comprehending, reading and writing. For those who are beginning the study of French or who have had one year of high school French or equivalent. For non-native speakers only, and is not open to heritage speakers or native speakers of French. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (lecture 4 hrs.)

101B. Fundamentals of French (4)
Prerequisite or corequisite: FREN 101A or two years of high school French or equivalent. Corequisite: Any Foundation course.
Fundamental skills of speaking, comprehending, reading and writing. Continuation of FREN 101A. For non-native speakers only, and is not open to heritage speakers or native speakers of French. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (lecture 4 hrs.)

102. Fundamentals of French for Hispanophones (5)
Prerequisites: Two semesters of college Spanish or 3 years of high school Spanish.
Two semesters of elementary French are covered in one in this intensive hybrid course designed for students who are native or heritage speakers of Spanish or have at least intermediate-level proficiency in Spanish or another Romance language. Letter grade only (A-F).

201A. Intermediate French (4)
Prerequisite: FREN 101B or three years of high school French or equivalent, and completion of the 15-unit Foundation requirement (or entering competency equivalent to FREN 101B and completion of concurrent enrollment in at least one Foundation course).
Continued work in speaking, pronunciation, comprehension and writing. For non-native speakers only, and is not open to heritage speakers or native speakers of French. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (lecture 4 hrs.)

201B. Intermediate French (4)
Prerequisite: FREN 201A or four years of high school French or equivalent, and completion of the 15-unit Foundation requirement (or entering competency equivalent to FREN 201A and completion or concurrent enrollment in at least one Foundation course).
Continued work in speaking, pronunciation, comprehension and writing, with some reading of modern writers. For non-native speakers only, and is not open to heritage speakers or native speakers of French. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (lecture 4 hrs.)

214. Intermediate Conversation (3)
Prerequisite: FREN 101B.
Should be taken concurrently with FREN 201A or 201B. Designed to develop basic conversational skills and to prepare for more advanced work in FREN 314. Letter grade only (A-F).

UPPER DIVISION

312A. Advanced French I (3)
Prerequisite: Upper division standing in French or equivalent.
Review of grammatical principles with regular exercises and composition work for the development of increased mastery of the written language.

312B. Advanced French II (3)
Prerequisite: Upper division standing in French or equivalent.
Review of grammatical principles with regular exercises and composition work for the development of increased mastery of the written language.

314. Advanced Conversation (3)
Prerequisite: FREN 214 or consent of instructor.
Continuation of FREN 214.
Letter grade only (A-F).

335. Survey of French Literature I (3)
Prerequisite: Upper division standing in French.
From the Middle Ages through the Seventeenth Century.

336. Survey of French Literature II (3)
Prerequisite: Upper division standing in French.
Eighteenth to Twentieth Century.

337. Survey of French Literature III: Twentieth Century French and Francophone Literatures (3)
Prerequisites: Upper division standing in French.
Survey of Twentieth Century and Francophone literatures.

411. Advanced French Syntax and Composition (3)
Prerequisites: FREN 312A or equivalent.
Special emphasis on the writing of compositions and developing an awareness of French style, as well as advanced syntax.

414. French Phonetics (3)
Prerequisites: FREN 312 A,B, or consent of instructor.
General concepts of linguistic science. Linguistics applied to the study and teaching of the French language. Articulatory phonetics as a means to form native French pronunciation habits with emphasis upon the difficulties encountered by speakers of American English.

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423.523. Introduction to French Linguistics (3)
Prerequisites: Completion of FREN 312A/B and 411.
This course presents an overview of French linguistics: phonology, morphology and syntax. The course also focuses on the application of linguistic knowledge to the teaching of French at the high school level in the U.S.

440. French Civilization (3)
Prerequisites: FREN 312A/B (may be taken concurrently with FREN 335 or 336 or consent of instructor).
Significant aspects of French art, culture and social institutions.

456. French Cinema (3)
Prerequisite: Senior standing or consent of instructor.
Acquaint students with the art of the medium, particularly as it is realized through the work of the artist most responsible for its success or failure, in this case the director.
Letter grade only (A-F). Some course as FIA 456. Not open for credit to students with credit in FIA 456.

460.650. The Art of Translation (3)
Prerequisites: Upper division or graduate status. Consent of instructor for third-year students.
Cover translation of French texts into English and of English texts into French, as well as theories of translation and their implications.
Translations may be published in The Translators' French Quarter, a journal of the RGRFLL Department. May be repeated to a maximum of 6 units.

462.562. Reading French Women Writers (3)
Prerequisites: FREN 335, 336, and 337 (Surveys of French Literature, I, II, and III) or consent of instructor.
Cover the literary production of women who wrote and wrote literature in France. French feminism, the question of "écriture féminine" and gender will also be discussed. Does not cover Francophone women writers.
May be repeated to a maximum of 6 units.

470.570. French Literature of the Middle Ages (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative drama, poetry and prose of the period: Texts in modern French.

471.571. French Literature of the Renaissance (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative drama, poetry and prose of the 16th Century.

472.572. French Literature of the Seventeenth Century (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative drama, poetry and prose of the century.

474.574. The Age of Enlightenment (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative writers and thinkers of the century: Drama, poetry and prose.

475.575. Seminar in Francophone Literature (3)
Prerequisites: FREN 337 or consent of Instructor.
May be repeated to a maximum of 15 units with different topics in the same semester.
A. Afrika
B. Caribbean
C. Maghreb
D. Quebec
E. Switzerland

476.576. French Comic Traditions (3)
Prerequisites: FREN 335, 336, 337 or consent of instructor.
Historical overview of French comedic forms; close reading of selected works; elements of comic theory. Includes works such as medieval farce, Molinos's different comic genres, Boeckmann's, Feydeau and absurdist dramatists such as Jarry and Ionesco, as well as film comedies.
Letter grade only (A-F).

477.577. French Literature of the Nineteenth Century (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative writers of the century: Drama, poetry and prose.

478.578. French Literature of the Twentieth Century (3)
Prerequisites: FREN 335, 336 or consent of instructor.
Study of representative writers of the century: Drama, poetry and prose.

480.580. Senior Seminar: Self and Society (3)
Prerequisites: FREN 335, 336 or 337 and two 400-level French courses, or consent of instructor.
This course is an integrative seminar examining a wide variety of literary works, ranging from Medieval through Twentieth-Century Francophone classic texts, and some films with strong literary connections. Emphasis on historical, critical and philosophical writings concerning issues in French-speaking cultures.
Letter grade only (A-F).

490.590. Special Topics in French (1-3)
Study of a particular topic in French literature, language, or culture. Specific topics to be announced in the Schedule of Classes.
May be repeated to a maximum of 12 units with different topics.

494. Internship in French (1-3)
Prerequisites: Consent of instructor and department chair.
Field work in French, supplemented by readings and tutorials under direction of a faculty, internships, small group discussion, teaching, and other assignments directed by a supervising faculty member.
May be repeated to a maximum of 6 units. No more than 3 units may be applied to the major in French.

499. Directed Studies (1-3)
Prerequisites: Consent of instructor and department chair.
Independent study undertaken under the supervision of a faculty member.
May be repeated to 3 units provided the material is not the same.
May be repeated to a maximum of 6 units with prior consent of department.

GRADUATE LEVEL

523.423. Introduction to French Linguistics
Prerequisites: Completion of FREN 312A/B and 411.
Principles of phonology, morphology and syntax. Focuses on the application of linguistic knowledge of French to teaching French at high school level in the U.S.

560.460. The Art of Translation (3)
Prerequisites: Upper division or graduate status. Consent of instructor for third-year students.
Cover translation of French texts into English and of English texts into French, as well as theories of translation and their implications. Some translated texts may be published in The Translators' French Quarter, a journal of the RGRFLL Department.

400 • French • 2009/2010 CSULB Catalog
560.480. Self and Society (3)
Prerequisites: FREN 335, 336 or 337 and two 400-level French courses, or consent of instructor.
This course is an integrative seminar examining a wide variety of literary works, ranging from Medieval through twentieth-century Francophone classic texts, and some films with strong literary connections. Emphasis on historical, critical and philosophical writings concerning issues in French-speaking cultures. Letter grade only (A-F).

590.490. Special Topics in French (1-3)
Study of a particular topic in French literature, language, or culture. Specific topics to be announced in the Schedule of Classes. May be repeated to a maximum of 12 units with different topics.

599. Directed Studies (1-3)
Prerequisite: Graduate standing with baccalaureate degree or equivalent.
Graduate level in-depth study on selected topics under supervision of a graduate faculty. Topic and study outline of work undertaken to be on file in Department. Enrollment contingent upon approval of Department Chair and faculty member. May be repeated for a maximum of 6 units with different topics in the same semester. Letter grade only (A-F).

604. Seminar in a Century of French Literature (3)
Prerequisite: Corresponding 400/500 level century survey course or consent of instructor. Intensive studies in one of the following topics. May be repeated to a maximum of 18 units with different topics in the same semester. Letter grade only (A-F).
A.  Seminar in Medieval Literature
B.  Seminar in 16th Century Literature
C.  17th Century
D.  18th Century
G.  Seminar in 19th Century Literature (3)
H.  20th Century

685. Seminar in French Literature or Culture (3)
Prerequisite: Graduate standing in French. Intensive study of a specific aspect of French literature or culture. Subjects to be announced in the Schedule of Classes. Letter grade only (A-F).

696. Research Methodology and Critical Theory (3)
Prerequisite: Graduate standing required. Introduction to methods of research/critical theory. Course familiarizes students with techniques and terminology of critical theory in the French tradition. Focus on theoretical issues such as "production" of meaning in texts, its relation to power, politics, ethics, and pleasure. Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Consent of department chair. Individual study under the guidance of a faculty member. May be repeated to a maximum of 3 units. Letter grade only (A-F).

698. Thesis (2-6)
Planning, preparation, and completion of thesis in French for the master's degree. With consent of graduate advisor only.
GEOGRAPHY
College of Liberal Arts

Department Chair: Vincent Del Casino
Department Office: Liberal Arts 4 (LA), Room 106
Telephone: (661) 956-4077 / (661) 956-6492
Website: http://www.csulb.edu/geog

Faculty: Hyonon Ban, Bapasha Benash, James C. Carle, Molly
Debysingh (Emeritus), Suzanne Dallman, Vincent Del Casino,
Frank Gossert (Emeritus), Christine L. Jocoy, Edward Kasubergerk
(Emeritus), John Kimura (Emeritus), Paul Lars, Christopher T.
Lue, Jacqueline Mills, Richard O‘Byrne (Emeritus), Christine M.
Rodrigue, Jumpei Sardrew, Joel Spilkenk (Emeritus), Deborah
Thien, Judith Tyner (Emeritus), Suzanne P. Wechsler

Advisors:
Undergraduate: Deborah Thien
Graduate: Christine M. Rodrigue
Internship Program Director: Suzanne P. Wechsler
Administrative Support Coordinator: Julie Oriz

Students desiring information should contact the department office
for referral to one of the faculty advisors.

Career Possibilities
Geographer • Urban Planner • Cartographer • Computer
Mapping • Regional, Urban and Environmental Planner
• Natural Resources Manager • Environmental Monitor
• Transportation Planner • Aerial Photo Interpreter • Travel
Counselor/Agent • Real Estate Appraiser • Environmental
Analyst • Intelligence Analyst • Marketing Analyst
• Community Development Specialist • Map Librarian
• Demographer • Recreation Resource Planner • Industrial
Development Specialist • GIS Specialist • Climatologist •
Ecologist • Environmental Impact Report Writer • Teacher
(Some of these, and other careers, require additional
education or experience. For more information, see www.
careers.csulb.edu.)

Introduction
Geography focuses on the spatial organization of human
and physical landscapes, the interactions
between human society and the physical environment, as
well as on the meanings that people bring to their place in
the world. Geography sits at the nexus of the social and
physical sciences, drawing from a range of theoretical and
methodological approaches for understanding the world
around us. We organize the major into four distinct areas
of concentration – Human Geography, Environmental/
Physical Geography, Geospatial Techniques, and Global
and Regional Studies – as a way to structure the diverse
approaches that geographers use in thinking about
spatial relationships in geographic context. Students are
encouraged to focus within one of these concentrations at
the undergraduate level.

Because of the diversity of the subject matter that it
considers, geography offers a broad, liberal education,
which is applicable to many careers. The Geography
Department offers the Bachelor of Arts and Master of Arts
degrees, Geography Minor, and two certificates: Urban

Studies and Geographic Information Science. Certain
Geography courses are applicable to teaching credential
programs; to the degree in Liberal Studies; and to certificate
programs in Environmental, Urban, Asian, Latin American,
and Russian and East European studies, and GIS. Students
may obtain materials from the department describing the
geography programs and courses recommended for career
preparation or visit its home page at http://www.csulb.edu/
geography/

The Master of Arts degree in geography is designed
for those wishing to expand their geographic competence
beyond that expected of the bachelor's degree. The Master
of Arts degree is becoming a common requirement for
employment advancement and it provides the preparation
necessary for success in geography Ph.D. programs at
other universities. Candidates are responsible for observing
the general requirements stated in this Catalog as well as
the specific departmental requirements contained in the
Geography Master of Arts Handbook.

Undergraduate Programs

Bachelor of Arts in Geography
(code GEOGBA01) (120 units)

Requirements
A grade of "C" or better must be achieved in all upper
division Geography courses.

The Geography major requires at least 39 units of which
at least 9 must be at the 400 level.

Lower Division - 12 units required: GEOG 100 or 120 or
160; GEOG 140, 290, 290.

Upper Division - 27 units required, which must include
at a minimum: GEOG 340 or 355; GEOG 360 and 360,
one Regional course (see list below) and an additional 3
courses within one Concentration (Environmental/Physical
Geography, Human Geography, Geospatial Techniques, or
Global and Regional Studies).

Major Concentrations and Grouping of Geography
Courses

The CSULB Geography Department encourages
geography students to acquire knowledge of the breadth of
the discipline, to develop an understanding of the regional
and systematic approaches to studying and applying
the discipline, and to become proficient in the application of
methods of inquiry and analysis that are employed in the
discipline. To facilitate the development of a prepared and
well rounded geographer, Geography courses are grouped
into Human Geography, Environmental/Physical Geography,
Geospatial Techniques, and Global and Regional Studies.
Students are urged to complete courses in each cluster and
to seek the advice of the undergraduate advisor and other
faculty to identify courses that are best suited to meet their
educational and career objectives. In addition, programs
may be tailored to meet the needs of individual students especially those choosing to double-major.
Environmental/Physical Geography: GEOG 340, 355L, 440, 442, 443, 444, 445, 446, 447, 455, 458, 481
Human Geography: GEOG 319L, 352, 360, 366, 381, 452, 460, 465, 469, 470
Geospatial Techniques: GEOG 400, 402, 473, 474, 475, 482, 484, 485, 486, 487A, 487B, 488
Global and Regional Studies:
Global Studies Courses: 319L, 352, 355L, 452, 460, 468, 470,
Additional Courses
The following courses may be included in the above concentrations with approval of the Undergraduate Advisor:
GEOG 492, 494, 497.
Minor in Geography (code GEOGUM01)
The Minor in Geography is available to any non-Geography major.
The minor requires a minimum of 18 units consisting of GEOG 140, 100 or 120 or 160, and 200 or 380, and at least 9 units of upper division courses with at least one course selected from the 400 series.
Certificate in Geographic Information Science (code GEOGCT01)
Co-Directors: Christopher Lee, Suzanne Wechsler
Requirements
This program offers specialized training in applied and theoretical geospatial techniques including geographic information systems (GIS), remote sensing and cartography. The program is designed to provide experience in quantitative spatial analysis through the use of Geographic Information Systems, working with remotely sensed imagery and field-derived data, and effective communication through maps. The certificate serves as a supplement to standard degree programs. It provides essential training for those seeking careers in the geospatial technologies in both the public and private sector. A brochure describing the GSCiences Certificate Program in greater detail is available in the Geography Department Office, LA 4-106, or on-line at www.csulb.edu/geography.
Certificate Requirements
1. A bachelor’s degree, which may be earned concurrently.
2. Consultation with the Undergraduate Advisor in the Geography Department.
3. 24 units distributed as follows:
   Core requirements, 12 units: GEOG 401 (same as ASAM 319), GEOG 402, or POSC 327.
   Elective Courses, 12 units to be selected from the following: AIS 319 (same as ASAM 319), AFRS 319, CHLS 319, WCSS 319; ANTH 416; ASAM 345; AFRS 339, 452; DESI 367; CAPP 322, 422; GEOG 446; HIST 402, 465, 474; POSC 327; WCSS 432.

Graduate Programs
Master of Arts in Geography (code GEOGMA01)
Prerequisites
1. A bachelor’s degree in geography; or,
2. A bachelor’s degree with 24 units of upper division courses substantially equivalent to those required for a geography major at this University; or,
3. A bachelor’s degree in a related discipline with 24 units of upper division courses in a combination of geography and approved courses in related disciplines.

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Human Geography

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Geography of Human Diversity in the United States</td>
</tr>
<tr>
<td>129</td>
<td>Introduction to Human Geography</td>
</tr>
<tr>
<td>301</td>
<td>Urban Life and Problems</td>
</tr>
<tr>
<td>319</td>
<td>International Development</td>
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<tr>
<td>352</td>
<td>Geography of Travel and Tourism</td>
</tr>
<tr>
<td>369</td>
<td>Human Geography</td>
</tr>
<tr>
<td>369A</td>
<td>Introduction to Urban Geography</td>
</tr>
<tr>
<td>381</td>
<td>Maps and Civilization</td>
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<td>452</td>
<td>Geography of the Global Economy</td>
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<td>460</td>
<td>Population Geography</td>
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<td>465, 465S</td>
<td>Social Geography</td>
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<tr>
<td>467, 467S</td>
<td>Urban Geography: Metropolitan Problems</td>
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<tr>
<td>468</td>
<td>World Cities/Cities of the World</td>
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<tr>
<td>470</td>
<td>Political Geography</td>
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Environmental/Physical Geography

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>140</td>
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<td>349</td>
<td>Environmental Geography</td>
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<td>355</td>
<td>International Environmental Issues</td>
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<td>440, 450</td>
<td>Land and Water Environments</td>
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<td>442</td>
<td>Biogeography</td>
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<td>443</td>
<td>Watersheds: Processes and Management</td>
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<td>444</td>
<td>Climatology</td>
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<td>445</td>
<td>Palaeoclimatology</td>
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<td>446</td>
<td>Land Use Planning</td>
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<td>447</td>
<td>Landscape Restoration</td>
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<tr>
<td>455</td>
<td>People As Agents of Environmental Change</td>
</tr>
<tr>
<td>456, 457</td>
<td>Hazards and Risk Management</td>
</tr>
</tbody>
</table>

Methods and Techniques

- These courses develop skills in graphic and statistical communication and field analysis which are used within the various sub-fields of the discipline.
- 206: Introduction to Research Methods for Geographers
- 210: Introduction to Geospatial Techniques
- 300: Map Interpretation and Analysis
- 400: Geographical Analysis
- 402: Qualitative Geographic Analysis
- 412: Thematic Map Design for Presentation and GIS
- 473: Remote Sensing
- 474: Introduction to Digital Image Processing
- 475: Geographical Application Remote Sensing
- 484, 484S: Advanced Concepts in Presentation Cartography
- 486, 486S: Introduction to Geographic Information Systems
- 496: Field Methods in Landscape Analysis
- 457A, 457S: Applications of Geographic Information Science (GIS): Environment and Natural Resources
- 458, 458S: Geographic Information Systems

General

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>452</td>
<td>Internship in Applied Geography</td>
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<tr>
<td>454</td>
<td>Special Topics</td>
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<td>497</td>
<td>Directed Studies</td>
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</tbody>
</table>

Global and Regional

GLOBAL:
- 319: International Development
- 352: Geography of Travel and Tourism
- 355: International Environmental Issues
- 452: Geography of the Global Economy
- 469: World Cities/Cities of the World
- 470: Political Geography

REGIONAL:
- 100: World Regional Geography
- 304: California
- 306: United States and Canada
- 308: Africa South of the Sahara
- 309: The Middle East and North Africa
- 313: Southeast Asia
- 314: South Asia
- 315: East Asia
- 316: Europe
- 318: Russia and Its Neighbors
- 320: Pacific Island Area

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Geography Courses (GEOG)

LOWER DIVISION

100. World Regional Geography (3)
Prerequisite/Corequisite: One G.E. Foundation course.
Through a spatial approach, World Regional Geography introduces students to the world's geographic realms and examines their cultural, population and political dynamics, resources and economic development, patterns of settlement and environmental elements. Not open for credit to students with credit in GEOG 100W.

120. Geography of Human Diversity in the United States (3)
Prerequisite/Corequisite: One G.E. Foundation course.
Examines America's Human Diversity from a geographic perspective focusing on the spatial distribution and organization of race/ethnicity and gender/sexuality groups across the U.S.'s rural and urban cultural landscapes while emphasizing the spatial politics of inclusion and exclusion.

140. Introduction to Physical Geography (3)
Prerequisite/Corequisite: One G.E. Foundation course.
Systematic study of the physical environment including human-environmental interaction, environmental hazards, and natural resource. Satisfies the GE B.3 Physical Universe requirement. Not open for credit to students with credit in GEOG 150.

160. Introduction to Human Geography (3)
Prerequisite/Corequisite: One G.E. Foundation course.
Geographic aspects of culture, including the past and present social, political and economic factors that are related to human perception, organization and use of the environment.

200. Introduction to Research Methods for Geographers (3)
Introduction to the scientific method in geography with an emphasis on basic quantitative and qualitative techniques and their applications. Not open for credit to student with credit in first course in statistics.

250. Early World Historical Geography (4)
Prerequisites: Open only to International Student Education Program (ISTEP) students.
Emergence and changing nature of urban life, cultural and technological diffusions, and variations in the intensity of contact and exchange among cultures and civilizations over time. Geographic and historical factors, such as location and place, human/environment interactions, migrations, and diffusion. Same as HIST 250.

280. Introduction to Geospatial Techniques (3)
Introduction to geospatial techniques, which include geographic information science (GIS), cartography, global positioning systems (GPS), and remote sensing. Students will be introduced to the geographic concepts required for spatial analysis.

(3 hours lecture)

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course.

3011. The Urban Scene (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and Upper Division standing.
Analysis of urban life styles; land use and design; population trends; conflicts in the increasingly multicultural urban setting; housing and community development; suburban-central city relationships; human utilization of urban life spaces; opinions of landmark urbanists; and future trends. Not open for credit to students with credit in SOC 419.

304. California (3)
California's diverse natural and cultural environment with emphasis upon social and economic problems and the human response to environmental hazards.

306. United States and Canada (3)
Prerequisites: Completion of GE Foundation requirements.
Cultural, economic and political interests of the major human use regions of the United States and Canada. Describes and interprets the culture patterns of each region in relation to the natural settings in which they have developed.

308. Africa South of the Sahara (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper division standing.
Human and environmental settings of Africa South of Sahara and the ecological, cultural, demographic, economic settlement and political relationships that characterize them.

309. The Middle East and North Africa (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper division standing.
Human and physical settings of the Middle East and North Africa and the cultural, economic, settlement, and political relationships that characterize them stressing those factors which underlie the region's instability and global importance.

313. Southeast Asia (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses, and upper division standing.
Cross-cultural examination of the characteristics and problems found across Southeast Asia. Specifically, environmental and cultural patterns, historical development of the spatial organization of society, demographic and other dynamics of social change, and issues of socio-economic and political development.

Letter grade only (A-F).

314. South Asia (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses, and upper division standing.
Cross-cultural examination of the characteristics and problems found across South Asia. Specific focus on environmental and cultural patterns, the historical development of the spatial organization of society, demographic and other dynamics of social change related to issues of socio-economic and political development.

Letter grade only (A-F).

315. East Asia (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses, and upper division standing.
Cross-cultural examination of the characteristics and problems found across East Asia. Specifically, environmental and cultural patterns, historical development of the spatial organization of society, demographic and other dynamics of social change, and issues of socio-economic and political development.

Letter grade only (A-F).

316. Europe (3)
Prerequisites: Completion of GE Foundation requirements.
The human and physical patterns of Europe. Current cultural conditions and environmental problems.

318. Russia and Its Neighbors (3)
Prerequisite: Completion of GE Foundation requirements.
Systematic and regional study of the physical, economic and cultural geography of the countries of the former Soviet Union.

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319I. International Development (3)
Prerequisites: Completion of the G.E. Foundation, one Explorations course, upper division standing. Theoretical and practical analysis of social, political, and economic development and alternative developmental models. Contemporary and historical comparison of how "developed" and "developing" areas of the world have confronted various economic, social, and political challenges. Same course as I/ST 319I. Not open for credit to students with credit in I/ST 319I.

321. Geography of Mexico, Central America and the Caribbean (3)
Prerequisites: Completion of GE Foundation requirements. Examines Mexico, Central America and the Caribbean from a regional geographical perspective. Utilizing both historical and contemporary points of view, it identifies and interprets the distinguishing environmental, demographic, cultural, social, economic, and geopolitical characteristics of the area. Not open to students who have taken GEOG 320I. Letter grade only (A-F).

322. Geography of South America (3)
Prerequisites: Completion of GE Foundation requirements. Examines South America from a regional geographical perspective. Utilizing both historical and contemporary points of view, it identifies and interprets the distinguishing environmental, demographic, cultural, social, economic, and geopolitical characteristics of the region. Not open for credit to students who have credit in GEOG 320I. Letter grade only (A-F).

326. Pacific Island Area (3)
Regional synthesis of the physical and cultural geography of Australia, New Zealand and the island groups of Oceania. (3 hours seminar and 2 hours laboratory).

340. Environmental Geography (3)
Prerequisite: GEOG 140 or GEOG 280. Examines the role of environmental factors in American West, including both physical and human factors. Letter grade only (A-F).

352. Geography of Travel and Tourism (3)
Examines the role of travel and tourism in regional geography, including the environmental, economic and social impacts of tourism and the development of regional tourism planning. Letter grade only (A-F).

355I. International Environmental Issues (3)
Prerequisites: Completion of the GE Foundation, one Explorations course, and upper division standing. Examines the deterioration, destruction, maintenance and restoration of environmental systems and resources. Identifies and analyzes major environmental problems that have international dimensions. Investigates ongoing and potential efforts to resolve these. Same course as I/ST 355I. Not open for credit to students with credit in I/ST 355I.

360. Human Geography (3)
Prerequisites: GEOG 100, 120, or 160. Examines the role of human activity in regional geography, including the impacts of population, migration, urbanization, cultural landscapes, and political and economic factors. Letter grade only (A-F).

366. Introduction to Urban Geography (3)
Prerequisites: GEOG 100, 120, 160 or 360 or consent of instructor. Examines cities and urban phenomena from geographical perspective. Introduces core theories, concepts and techniques that geographers have developed to explain the origin, growth, functions, and character of urban places especially in North America. Letter grade only (A-F).

380. Map Interpretation and Analysis (3)
Interprets and analyzes maps as a tool of communication with emphasis on critical analysis, symbolization, scale, projection. (Lectures, problems 3 hours.)

381. Maps and Civilization (3)
Maps and Civilization examines the role maps play in different cultures. Drawing upon the disciplines of cartography, geography, history, and science, it explores maps in Western and non-Western cultures; conventional and alternative cartographies; and mapping activities of men and women. Letter grade only (A-F).

400. Geographical Analysis (4)
Prerequisite: GEOG 200 or any introductory statistics course or consent of instructor. Examines advanced quantitative techniques employed by geographers in analysis of spatial phenomena. Topics covered include multivariate statistical methods as models for geographical analysis. Emphasis on the application of these techniques in geographical research, using statistical software. Letter grade only (A-F).

402. Qualitative Geographic Analysis (4)
Prerequisite: GEOG 200, or consent of instructor. Examines qualitative geographic methodologies and methods through the theoretical frameworks that geographers employ in their research. Introduces survey, interview, and focus group techniques, textual analysis, participant observation, and ethnography. Includes a hands-on research experience. Letter grade only (A-F).

419/519. Geographies of Development and Inequality (3)
Prerequisites: GEOG 360, GEOG 319I, I/ST 310I or permission of the instructor. This course provides critical perspectives of issues facing the theory and practice of development geography. It also analyzes the emergence of non-governmental organizations, social movements and other forms of civic life that promote cultural and context-specific models of development. (Undergraduates register in GEOG 419; graduates in GEOG 519.) Letter grade only (A-F).

440/540. Land and Water Resources (3)
Prerequisites: GEOG 140 or GEOG 340 or 359, or consent of instructor. Examines the interactions between land and water as components of the environment. Focus is on management, use and human impacts, with an emphasis on water resources. (Lectures, discussion.)

442. Biogeography (3)
Prerequisite: GEOG 140. A course in biology, ecology or Geography 340 is strongly recommended. Theories and methods of mapping plant and animal distributions, spatial interaction of species with environmental limiting factors, and the human role in temporal and spatial variation of ecosystems. (Lectures, discussion.)
443. Watersheds: Processes and Management (4)
Prerequisites: GEOG 140 or consent of instructor.
Basic principles of watershed hydrology, including hydrologic processes, runoff behavior, precipitation patterns and watershed models. Evaluation of water quality elements such as nonpoint source pollution. Laboratory and field exercises will include hydrologic data collection, processing and evaluation.
(3 hours Lecture, 2 hours Laboratory)

444. Climatology (3)
Prerequisites: GEOG 140
Descriptive and analytical analysis of elements and controls of climate. Climates of world emphasis on California and North America.
(Lecture, problems 3 hours)

445. Paleoclimatology (4)
Prerequisites: GEOG 444 or consent of instructor.
Methods and theories used in reconstructing and dating climates of the past 2 million years, using such proxies as sediment sequences, packrat middens, ice cores, tree rings, corals, and documentary data. Causes of environmental change and human interactions are analyzed.
(Lecture 3 hours, lab activities 2 hours)

446. Land Use Planning (3)
Examine land use planning, issues and responses concerning land use; coastal zones; environmental resource management; urban growth; design and aesthetics; planning parameters for residential, parks, conservation areas, shopping centers, and industrial areas; urban and regional revitalization, and transportation.
Not open for credit to students with credit in USST 446

447. Landscape Restoration (3)
Prerequisites: GEOG 140 or GEOG 280. GEOG 340 or 355 highly recommended. A course in ecology or biogeography recommended.
Explores philosophical, political, and ecological issues associated with restoring degraded landscapes. Analysis of theoretical works, scientific research, planning documents and case studies. Examines potential for restoring natural landscapes.
(Lecture, problems 3 hrs)

448/454. Environmental Assessment (3)
Prerequisites: GEOG 140 or GEOG 102 or GEOG 269; recommended: LSIP 200 or GEOG 340 or GEOG 35b; or consent of instructor.
Introduction to the policy framework and techniques for assessing impacts on various aspects of the biological and physical environment. The course is a survey of multiple topics involving various types of environmental assessment, including data collection, processing and evaluation.
(Undergraduates register in GEOG 448; graduate registrar in 548.)
(3 hours lecture, activity)

452. Geography of the Global Economy (3)
Prerequisite: GEOG 380 highly recommended.
Examines globalization processes that create integration of world’s economic, political, and cultural systems, but operate unevenly across space and time. Focuses on impact on people and places around the world.
(Lecture, problems) Letter grade only (A-F)

455. People As Agents of Environmental Change (3)
Examines human impact on biophysical environment from long-term and global perspective. Explores regional and global implications of these changes on people and environments. Examines different theories for explaining major human forces that drive environmental change.
(Lecture 3 hours)

458./558. Hazards and Risk Management (3)
Prerequisites: One earth science course (GEOG 140 or GEOL 102 or 160 or consent of instructor) and one social science course (e.g., GEOG 100 or 160 or consent of instructor).
Broad overview of hazards and disasters, whether natural or technological, emphasizing the physical and social dynamics that interact to produce hazard, the spatial and temporal distributions of various hazards, and policy options for disaster prevention, loss reduction, and community resilience.

460. Population Geography (3)
Introduction to geographic study of population. Includes growth and distribution of world population; results of changing births, deaths, and migration; variations in population composition; related problems such as food supplies and environmental deterioration.

462. Feminist Geography (3)
Prerequisite: GEOG 360 or permission of instructor.
Introduction to feminist geography. Critically engage with international research on topics such as geographies of emotion, care and health; femininities and masculinities; feminist post-structural theories and philosophies; and feminist methodological approaches to geospatial research.
Letter grade only (A-F).

465./565. Social Geography (3)
Prerequisite: GEOG 160 or consent of instructor.
The geographies of society, including various methodological and theoretical approaches to social geography. Topics may include socio-spatial inequality, crime, housing, religious systems, medical and health geography, feminist geography, the geography of sexuality, the geography of race, and post-structuralist geography.

467./567. Urban Geography: Metropolitan Problems (3)
Prerequisite: Consent of instructor. (Undergraduates register in GEOG 467; graduates register in GEOG 567.)
Geographic components of metropolitan problems and their solutions. Problems related to transportation systems, housing, evolution of ghettos, urban perception and behavioral patterns will be discussed in terms of theoretical and practically applied urban planning solutions.
(Lecture, problems 3 hrs)

468. World Cities/Cities of the World (3)
Prerequisites: GEOG 100, 120 or 160. GEOG 360 and 386 highly recommended.
Comparative examination of major world cities within the context of their regional and national urban systems. Compares and contrasts cities of developed and developing worlds. Explores divergent urbanization patterns and world city development in major cultural realms.
Letter grade only (A-F).

470. Political Geography (3)
Prerequisite: GEOG 100 or consent of instructor.
Comparative study of the earth’s politically organized regions and related systems. Generating ideas are explored, such as power analysis, power analysis, and functional analysis of political units. Structures political geographic concepts used in analyzing the viability of states and nations.
(Lecture, problems)

471. Geographic Information Science (GIS) For Health (3)
GEOG 200 or SOC 250 or equivalent.
An Introduction to the fundamentals of Geographic Information Science and systems (GIS) including concepts and skills in spatial reasoning and spatial thinking. Explores GIS in spatial query, problem analysis and decision support using health-related applications. Lecturediscussion and Laboratory (2 hours seminar, 2 hours computer laboratory)
Letter grade only (A-F). Same course as HCA 471

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4.86. Field Methods in Landscape Analysis (4)
Prerequisites: GEOG 200 or equivalent and GEOG 380 or consent of instructor.
Introduces field techniques, including formulation of field plans, recording direct observation, field mapping, sampling techniques, interviewing, and organizing and evaluating data for presentation.
(Lecture-discussion 1 hour, supervised field work 6 hours)

4.87A. Applications of Geographic Information Science (GIS): Environment and Natural Resources (4)
Prerequisites: GEOG 140, 485 or 585, 486 or 586 or consent of instructor.
Use of Geographic Information Systems and science for spatial analysis, spatial modeling and decision support in natural resource assessment. Students who possess a background in GIS are introduced to environmental applications. Emphasizes the use of raster GIS.
(3 hours Lecture, 2 hours Laboratory)

4.87B. Applications of Geographic Information Science (GIS): Urban and Economic (4)
Prerequisites: GEOG 486 or 586, 488 or 588 or consent of instructor.
Builds on introductory knowledge of Geographic Information Systems, spatial analysis and spatial data and focuses on urban and economic applications and analyses.
(3 hours Lecture, 2 hours Laboratory)

4.88/S88. Advanced Topics in Geographic Information Science (4)
Prerequisites: GEOG 200 or equivalent; 380, 482, 485 or 585 or consent of instructor.
Advanced concepts in geographic information systems and techniques are introduced and their applications in geography and related disciplines explored.
(Seminar 3 hours; Laboratory 2 hours), Letter grade only (A-F).

492. Internship in Applied Geography (3)
Prerequisites: Geography major with upper division or graduate standing, prior geography coursework or equivalent recommended, and consent of instructor.
Community-based placement to enhance professional preparation in applied geography. May be repeated to a maximum of 6 units; a second semester experience shall differ substantially from first semester experience. Undergraduates may elect Credit/No Credit or letter grading; letter grading only is required for graduate students. Student will work under faculty supervision.

4.94. Special Topics (1-3)
Prerequisite: Consent of instructor.
Application of geographical concepts and methodology to selected contemporary problems. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with consent of department chairman. May not be credited toward the major in geography without written department consent in advance of enrollment.

4.97. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Individually directed studies of special problems in geography. May be repeated to a maximum of 6 units with consent of department chairperson. May not be credited toward the major in geography without written department consent in advance of enrollment.
565/465. Social Geography
Prerequisites: GEOG 160 or consent of instructor.
The geographies of society, including various methodological and
theoretical approaches to social geography. Topics may include
socio-spatial inequality, crime, housing, religious systems, medical
and health geography, feminist geography, the geography of
sexuality, the geography of race, or poststructuralist geography.

567/467. Urban Geography: Metropolitan Problems (3)
Prerequisites: Consent of instructor. (Undergraduates register in
GEOG 467; graduates register in GEOG 567.)
Geographic components of metropolitan problems and their
solutions. Problems related to transportation systems, housing,
evolution of ghettos, urban perception and behavioral patterns will
be discussed in terms of theoretical and practically applied urban
planning solutions.
(Lecture, problem. 3 hrs) Letter grade only (A-F).

575. Geographical Applications in Remote Sensing (4)
Prerequisites: GEOG 140, 160, 473, and 474.
Focuses on remote sensing applications. Students will be
introduced to sophisticated imagery and analysis techniques, as
applied to weather and fire modeling, and lands environmental
problems, of the urban environment.
(Seminar 3 hrs; Laboratory 2 hrs). Letter grade only (A-F).

584. Advanced Concepts in Presentation
Cartography (4)
Prerequisites: GEOG 200 or equivalent; 380 and 492.
Advanced theory and techniques for presentation cartography
including communication, visualization, terrain representation,
animation, and color.
(Seminar 3 hrs; Laboratory 2 hrs). Letter grade only (A-F).

585. Principles of Geographic Information Science
(4)
Prerequisites: GEOG 200 or equivalent, 380 and 492.
Fundamental concepts and techniques of geographic information
systems and science are introduced. Emphasizes spatial analyses
to address spatial questions.
(Seminar 3 hrs; Laboratory 2 hrs). Letter grade only (A-F).

586. Field Methods in Landscape Analysis (4)
Prerequisite: GEOG 380 or consent of instructor.
Introduction to field techniques, including formulation of field plans,
recording direct observation, field mapping, sampling techniques,
interviewing, and organizing and evaluating data for presentation.
(Seminar 1 hour; Field Work 6 hours). Letter grade only (A-F).

587A. Applications of Geographic Information Science
(GIS): Environment and Natural Resources (4)
Prerequisites: GEOG 140; 465 or 585, 488 or 588 or consent of
instructor.
The use of Geographic Information Systems and science for
spatial query, problem analysis, spatial modeling and selection
support in natural resource assessment. Students who possess a
background in GIS are introduced to environmental applications.
Emphasizes the use of raster GIS.
(3 hours Lecture, 2 hours Laboratory)

587B. Applications of Geographic Information Science
(GIS): Urban and Economic (4)
Prerequisites: GEOG 465 or 585, 488 or 588 or consent of
instructor.
Builds on introductory knowledge of Geographic Information
Systems, spatial analysis and spatial data and focuses on urban
and economic applications and analyses.
(3 hours Lecture, 2 hours Computer Laboratory)
<table>
<thead>
<tr>
<th>Geography Courses (GEOG)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>568. Advanced Topics in Geographic Information Science (4)</strong></td>
</tr>
<tr>
<td>Prerequisites: GEOG 200 or equivalent; 380, 482, 485 or 585 or consent of the instructor.</td>
</tr>
<tr>
<td>Advanced concepts in geographic information systems and techniques are introduced and their applications in geography and related disciplines explored.</td>
</tr>
<tr>
<td>(Seminar 3 hours; Laboratory 2 hours). Letter grade only (A-F).</td>
</tr>
</tbody>
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| **596. Geographic Thought and Literature (3)** |
| Prerequisite: Consent of instructor. |
| Preconference in the history of 20th-century Anglophone geographic thought, with emphasis on the theoretical and methodological perspectives current in the field today. |
| Letter grade only (A-F). |

| **640. Seminar in Physical Geography (3)** |
| Prerequisite: Consent of instructor. |
| Physical/environmental issues and problems. |
| May be repeated to a maximum of 8 units with consent of departmental advisor. Letter grade only (A-F). |

| **650. Seminar in Cultural Geography (3)** |
| Prerequisite: Consent of instructor. |
| Systematic investigation of human occupancy in its varied environmental and regional settings. |
| May be repeated to a maximum of 6 units with consent of departmental advisor. Letter grade only (A-F). |

| **666. Seminar in Urban Geography (3)** |
| Prerequisite: Consent of instructor. |
| Geographic concepts and techniques of research applied to specific urban areas. |
| May be repeated to a maximum of 6 units with consent of departmental advisor. Letter grade only (A-F). |

| **680. Seminar in Geospatial Science (3)** |
| Prerequisite: Consent of instructor. |
| Application of geographic concepts and methodology to selected cartographic, GIS, remote sensing, and spatial analytic problems. |
| May be repeated to a maximum of 6 units with consent of departmental advisor. Letter grade only (A-F). |

| **695. Seminar in Geographical Research Methods (3)** |
| Prerequisites: GEOG 596, graduate status in geography, and consent of instructor. |
| Critical survey of contemporary methodologies available for framing research in geography, emphasizing the connection between research models, research questions, and the selection and limitations of particular methods, techniques, and data. |
| Letter grade only (A-F). |

| **697. Directed Research (1-3)** |
| Prerequisite: Consent of instructor. |
| Research in geography supervised on an individual basis. |
| Letter grade only (A-F). |

| **698. Thesis (1-6)** |
| Prerequisite: Consent of instructor. |
| Planning, preparation and completion of thesis for the master’s degree. |

<table>
<thead>
<tr>
<th>Urban and Regional Studies Courses (UST)</th>
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<tbody>
<tr>
<td><strong>C300L. The Urban Scene (3)</strong></td>
</tr>
<tr>
<td>Prerequisites: Completion of the GE Foundation, one or more Explorations courses, and upper-division standing.</td>
</tr>
<tr>
<td>Analysis of urban life-styles; land use and design; population trends; conflicts in the increasingly multicultural urban setting; housing and community development; suburban-central city relationships; human utilization of urban life spaces; opinions of landmark urbanists; and future trends.</td>
</tr>
<tr>
<td>Not open for credit to students with credit in SOC 419.</td>
</tr>
</tbody>
</table>
GEOLOGICAL SCIENCES
College of Natural Sciences and Mathematics

Department Chair: Stanley C. Finney
Department Office: Peterson Hall (PH) 1 - 102
Telephone/FAX: (626) 985-4909 / (626) 989-8638
Website: www.cnm.csulb.edu/department/geology

Faculty: Elizabeth A. Ambrose, Matthew Becker, Richard J. Behl, Stanley C. Finney, Robert D. Francis, Roswitha B. Grannell, Jack Green, Gregory J. Hott, Thomas Kelly, Nathan Onderdonk, Lora Stevens

Administrative Support Coordinator: Margaret Costello

Advisors:
Undergraduate: Richard J. Behl, Laura Hendriks, James Kael
Graduate: Robert Frances

Students desiring information should contact the Department Office for referral to one of the faculty advisors.

Career Possibilities

- Geologist
- Geophysicist
- Hydrologist
- Mineralogist
- Paleontologist
- Seismologist
- Geophysical Prospector
- Laboratory Assistant
- Skills Engineer
- Stratigrapher
- Crystallographer
- Geodesist
- Environmental Analyst
- Oceanographer
- Teacher
- Petrolologist
- Geobiologist

(For some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.) Various entry-level training positions in business and industry are available for graduates regardless of academic discipline.

Introduction

The Geological Sciences includes the study of the solid earth, the hydrosphere, and the atmosphere. Within the broad field of Geological Science students may elect to take course work leading to professional careers in such areas as hydrogeology, environmental geology, urban geology, engineering geology, petroleum geology, mineral exploration, and government service. The degree programs also prepare students for academic careers in schools or universities, although additional work is usually required for such careers. All Earth Science and Geology majors must contact the Undergraduate Advisor prior to the first semester in residence.

The Geological Sciences Department participates in the Southern California Marine Institute for our new marine geology, oceanography, seismic studies. See the Ocean Studies Institute section of this Catalog for additional information.

Concurrent and/or Summer Enrollment at Another College

Students who wish to take course work at a community or another college to meet curricular requirements while enrolled as undergraduates in the College of Natural Sciences and Mathematics must petition the appropriate Department for prior approval to earn credit for specific courses. This policy applies to concurrent enrollment or summer enrollment. University policy must also be complied with. See "Concurrent Enrollment" and "Transfer of Undergraduate Credit" in this Catalog. Courses not receiving prior approval will not be accepted for credit by the Department.

Facilitated Enrollment into Classes

All entering students who declare a major in a degree program offered by this Department must participate in the College of Natural Sciences and Mathematics' Science Safari to Success (for first-time freshmen) or EONS (Enrollment and Orientation in the Natural Sciences and Mathematics; for transfer students) Program. These programs are held in June-July for those starting in the Fall Semester and in January for those starting in the Spring Semester. Department advisors will be available to provide an overview of the students' chosen baccalaureate degree program, to assist with academic advisement, to provide information on the many career opportunities available, and to aid students in enrolling in classes. Contact the Jensen Student Access to Sciences and Mathematics Center (F08-106) or Department Office for additional information.

Undergraduate Programs

Bachelor of Science in Geology (code GEOLBS01) (120-126 units)

The bachelor of science degree program is intended to provide a thorough background in the geological sciences for those planning to pursue careers in industry or to do graduate study. The program is designed with the conviction that, in an ever-changing and technologically-oriented industry and research environment, a student must have a strong geological background. As such, he/she needs a program that explores the fundamental geological processes, cultivates skills in integrative three-dimensional geological thinking, provides laboratory and field experience, and stimulates interest in the many subdisciplines of the geological sciences.

Within the broad field of geography, students may elect to follow any one of five emphases: General Geology, Petroleum Geology, Stratigraphy/Sedimentology, Geochemistry/Mineralogy/Petrology, and Structural Geology/Techniques. Each student should contact the undergraduate advisor for assistance in planning the degree program.

Geology majors must receive a grade of "C" or better in all courses required for the major. A minimum of 120-126 units is required for the bachelor of science degree in the various emphases in geology. Emphases other than General Geology are based on the General Geology emphasis, but have structured electives and other variations from that plan. An additional course chosen with the consent of the undergraduate advisor may be recommended for individual emphases. Transfer students should fulfill, prior to transferring, the appropriate lower division curricular...
requirements as outlined in later sections. Particular attention should be paid to fulfilling the lower division math, chemistry, physics, and biology requirements.

Lower Division: GEOL 102, 104, 240, 250, 273; MATH 122, 123; CHEM 111A,B; PHYS 151, 152; BIOL 200.

Additional required courses for the various emphases are listed below.

Upper Division: GEOL 322, 341, 350, 420, 433, 443, 450, 460, 461. Additional required courses for the various emphases are listed below.

1. General Geology (120 units): Six units of elective courses (normally at upper division) approved in advance by the undergraduate advisor.


4. Geochemistry/Mineralogy-Petrology (126 units): MATH 224; CHEM 371A,B; GEOL 122.

5. Structural Geology/Igneous (122 units): GEOL 430, 462; MATH 224, 370A.

Minor in Geology (code GEOLUM01)

The Minor in Geology is available to any non-Geology major.

Twenty units in geology courses that must include:

Lower Division: GEOL 102, 104, 240.

Upper Division: At least 9 additional units of geology approved in advance by the Undergraduate Advisor.

Bachelor of Science in Earth Science (code GEOLBS02) (122-129 units)

The Earth Science program prepares students to understand the natural environment, earth resources, land and ocean use, pollution, geology of the sea floor, and other areas of critical importance to present and future world problems. Career-oriented interdisciplinary emphases are offered in Geohydrology/Environmental Geology, Engineering Geology, Exploration Geophysics, and Marine Geology/Oceanography.

Earth Science majors must receive a grade of "C" or better in all courses required for the major. As outlined below, a minimum of 122 units is required for the various emphases in Earth Science.

Lower Division: GEOL 102, 104, 240, 250, 273; MATH 122, 123, 224; CHEM 111A; PHYS 151, 152. Additional required courses for the various emphases are listed below.

Upper Division: GEOL 322, 350, 428, 433, 443, 460. Additional required courses for the various emphases are listed below.


2. Engineering Geology (123 units): CHEM 111B; C E 205, 345, 346, 445; MAE 373; GEOL 444, 450, 477.

3. Exploration Geophysics (126 units): BIOL 200; MATH 247, 370A; PHYS 310, 340A; GEOL 462; and 8 units selected in consultation with the undergraduate advisor.


Teaching Credential

Requirements Related to a Geoscience Concentration

The Geoscience Concentration meets the subject matter competence requirement for the Single Subject Preliminary Credential in Geosciences (code 192). Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Geoscience teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete many of the credential program courses, except for student teaching, as an undergraduate. Courses may also be started as post-baccalaureate students. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (http://ced.cscu.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

The Geosciences Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

Lower Division: ASTR 100; BIOL 111, 111L, 212, 212L, 213, 213L; CHEM 111A,B; GEOL 102, 104, 160, 273; PHYS 151, 152; MATH 122, 123.

Upper Division: GEOL 341, 443, 448, 433, 450; SCED 403.

GRADUATE PROGRAMS

Master of Science in Geology (code GEOLMS01)

The Department of Geological Sciences offers a comprehensive program of courses coupled with appropriate thesis projects leading to the Master of Science in Geology. Within geology, students specialize in any of a number of sub-disciplines including engineering geology, environmental geochemistry, geology, hydrogeology, marine geology, mineralogy and petrology, paleoecology, petroleum geology, sedimentology, stratigraphy, structural and field geology, and volcanology. In addition, a formal emphasis in geophysics is available. Students may include in their studies courses offered by other departments at CSULB, or courses at California State University Northridge and California State University Los Angeles; CSULB participates with both universities in a joint Master's program.

The objectives of the Master of Science in Geology are (1) to train individuals with the competence required by the geological profession for employment in industry and government agencies, (2) to enable promising students to attain a level of knowledge and research ability required for admission to Ph.D. programs at other universities, and (3) to provide course work and research experience necessary for students planning to teach geology at the community college level.
Emphasis in Geophysics

The emphasis in geophysics is available for students wishing to specialize in the application of geophysical principles to the solution of problems in engineering geology, geohydrology, structural geology, tectonics, petroleum geology, and mineral exploration. Students following this Emphasis are expected to have completed the equivalent of course work required for the B.S. in Earth Science, Geophysics emphasis, and additionally to complete M.S. requirements with a program of geophysical course work approved in advance by both the graduate advisor and a geophysics advisor. Appropriate B.S. programs which provide training suitable for completion of the M.S. in Geology, Geophysics Emphasis, include Civil and Electrical Engineering, Physics, Mathematics, and Geology in addition to Geophysics, although some deficiencies will exist in these alternate programs. Students should confer with the graduate advisor about this program.

Departmental Resources

The CSULB Department of Geological Sciences is very well equipped for a wide variety of field, laboratory, and analytical research. Equipment and facilities include: an 1100 s of geochemistry clean lab with chromatography columns for trace element and isotopic studies, two HP gas chromatographs, a UV spectrophotometer, a Cary Vis/UV spectrophotometer, a CHN elemental analyzer, IR Mass Spectrometer, Analytical Environmental Scanning Electron microscope, vacuum extraction lines for oxygen and carbon isotope studies of carbonate and silicate minerals, three X-ray diffractometers, ppetigraphic thin section-making equipment and microdrill system, a fluid inclusion heating/cooling stage, a PIMA portable infrared spectrometer, a marine multichannel seismic reflection system that includes a digital 24-channel hydrophone streamer and unboom and spinner energy sources, a total station laser surveying system, a precision GPS receiver and processing software, a high-precision LaCoste-Romberg gravimeter, a land-based seismic reflection/refraction system with weight-drop energy sources and 24-channel land seismic data acquisition system, two 8-passenger 4WD field vehicles, Linux workstations and SIO/SERF seismic data processing software, 3D subsurface visualization and mapping software for seismic and well logs (Kingston Suite; 12-station network license), a 24-station computer lab (PC and Macintosh) with high-speed internet connection, laser printers, a digitizer tablet, a 42" HP color inkjet printer/plotter, GIS software (MapInfo and ArcView), desktop publishing and statistical software. The Department operates the Los Angeles Basin Subsurface Data Center, a well log and subsurface data repository with logs on 14,000 wells in southern California, and offshore seismic data. The Department also has access to three ocean-going research vessels, support staff, and dockside facilities of the Southern California Marine Institute (SCMI), a consortium of several California State University campuses, University of Southern California, and Occidental College.

Admission to the Program

The basic requirement for admission to the graduate program is possession of a bachelor's degree or equivalent in geology or earth sciences comparable to degrees offered at CSULB. The student normally will be expected to have completed as an undergraduate acceptable work in certain basic lower division and upper division subjects. Lower division subjects include calculus, calculus-based physics, chemistry, biology, computer programming and statistics. Upper division subjects depend on the degree emphasis and sub-disciplines to be followed by the student, and generally include (but may not be limited to) courses required by the corresponding undergraduate emphases. Students who are missing some of these course work may be admitted to the program but it will be expected to remove deficiencies or present acceptable alternatives.

In addition to the above course work requirements, students are required to take the General test of the Graduate Record Examination and to submit three letters of recommendation prior to entry.

Prospective graduate students in the geological sciences, including CSULB graduates, must formally apply for admission to CSULB as described previously in this Catalog and must also apply directly to the Department of Geological Sciences. All applicants must submit the following documents directly to the Department no later than July 1 for the fall semester or December 1 for the spring semester to receive consideration for admission:

1. Department Application Form, available from the Department Office;
2. Official transcripts of all college level academic work including that done at CSULB, in addition to those transcripts required for general graduate admission to CSULB;
3. Three letters of recommendation from persons familiar with the applicant's academic performance and research potential;
4. Official reports of scores on the General test of the Graduate Record Examination.

A limited number of assistant/associateships are available to fund graduate studies in the Department of Geological Sciences. Applicants wishing to be considered for one of these positions must submit all application materials to the Department Office no later than July 1 for the Fall semester or December 1 for the Spring semester.

Students not meeting the Department's admission standards or application requirements may be admitted on probationary status on a case-by-case basis. Those students will be expected to maintain the same high academic standards as fully admitted students. After two semesters, students admitted on probationary status will be re-evaluated for full admission to the Department.

Initiation of Graduate Study

Students are responsible for all University and Department regulations governing master's degrees as outlined in this Catalog. The regulations governing the degree are those in effect at the time of advancement to candidacy. During this time, students are governed by the most current Catalog. The advising of incoming graduate students is carried out by the graduate advisor, who explains the requirements of the program and carries out initial academic advising. It is required that the student arrange for this initial advising before or during his/her first semester.

All entering students must take GEOL 500 (Introductory Graduate Seminar) during their first Fall semester. This course consists of faculty-given seminars that introduce new students
to the Department and to the faculty and their research. One purpose of this is to encourage the student to find a thesis topic and thesis advisor by the end of the second semester. This is done with the help of the graduate advisor once the student has chosen a sub-discipline or option in which to specialize.

Students are required to maintain a GPA of 3.0 or higher at all times. If at any time a student's GPA drops below 3.0, that student will immediately be placed on probation for a maximum of two semesters. If the student does not bring the GPA back up to 3.0 during the probationary period, he/she will not be allowed to continue as a graduate student in this Department. In order for a student to regain status in the Department after failing to maintain this academic standard, he/she must formally reapply for Department admission.

Advancement to Candidacy

A student must have been advanced to candidacy before initiation of thesis research necessary to complete the M.S. degree. Students are expected to be advanced by the end of their fourth semester. Students may petition the Department for an extension of the four semester time limit on a semester by semester basis. Students should be aware, however, that they are at risk of not receiving credit toward their graduate programs for research started or courses taken prior to advancement. Students must have fulfilled the Graduation Writing Assessment Requirement (GWAR) and have advanced to candidacy before they apply for graduation. Requests to graduate must be received during the preceding May for Spring/Summer graduation or preceding December for Fall graduation. Filings after the deadlines are not accepted.

Before advancement can proceed, a thesis topic, committee, and graduate program consisting of at least 30 units (see below) must be established by the student and the prospective thesis committee chair. In addition, the following requirements must be met:

1. Prior completion of all deficiencies or incompletes. This includes courses required in the undergraduate major for the emphasis in which the student is pursuing graduate research, as well as additional courses specified by the thesis advisor.
2. Completion of six units of graduate level courses with a 3.0 or higher grade point average and attainment of a 3.0 or higher grade point average in all upper division and graduate work attempted, as well as in courses to be listed in the student's graduate academic program (see below).
3. A passing grade in GEOL 500.
4. Satisfying the Graduation Writing Assessment Requirement (GWAR).
5. Successful completion of an oral qualifying examination given by the student's thesis committee, and acceptance of a written proposal for the thesis research. The student's thesis topic will be the subject of the examination.

Once the above requirements are met, advancement to candidacy proceeds with approval of the committee, graduate advisor, Department Chair and Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics. After the student has been advanced, no course work in addition to that specified in the graduate program may be required of the student. In order for a student to change thesis director, topic, committee members, or courses in the graduate program, approvals must be obtained. Under some circumstances this may mean that additional courses are required.

Requirements of Graduate Academic Program

The graduate academic program consists of at least 30 units of courses and is finalized when the student advances to candidacy. Although courses that will eventually become part of the student's academic program may be taken before advancement, it is strongly recommended that students make up any undergraduate deficiencies first, and then advance as early as possible. The program proposed by the thesis committee chair and the student must be approved by the thesis committee, Graduate Advisor, Department Chair, and Associate Dean for Graduate Accountability. Six units of GEOL 698 (Thesis) must be taken as part of the program. Directed Research, GEOL 697, may account for up to three units, but normally cannot be taken before the student completes 12 units of the graduate program with a grade point average of 3.0 or higher.

A minimum of 18 units of 500 or 600 level courses, including Thesis, must be completed, the remaining units (12 or less) may be 300, 400, 500, or 600 level courses, although courses at the 300 level in the Department may not be used in the program. Units may be taken at other universities if suitable courses are not offered at CSULB. Appropriate courses from related areas in science, mathematics, or engineering may be substituted within limits with consent of the Department.

Thesis Defense

All M.S. students are required to submit a thesis that conforms to the University and Department guidelines. The thesis should document the systematic study of a significant geological problem: evidence originality and critical, independent thinking; and conform to appropriate and accepted organization, format, and writing style. Each student should discuss thesis format with his/her thesis committee chair.

All M.S. students are also required to present the results of their research orally. With prior approval, this presentation can take one of many possible formats, including a departmental seminar, a presentation at a regional or national meeting, or a formal thesis defense. The student must schedule his/her presentation at least two weeks in advance, and with the approval of the thesis committee chair (and thesis director). The date of the presentation must be approved by the semester in which the student plans to graduate.

Courses (GEOL)

LOWER DIVISION

102. General Geology (3)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A 1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
Not open for credit to students with credit in GEOL 105 or 107. Concurrent enrollment in GEOL 104 or 105 recommended. (Lecture, demonstration 5 hrs.)
104. Geology Laboratory (1)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOI 102.
Laboratory study of earth materials.
(Laboratory 3 hrs.)

105. Geology Field Laboratory (1)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOI 102.
Field trips to areas of geologic significance and field study of earth materials.
May be repeated to a maximum of 3 units with consent of instructor. (Field trips, 6 days per unit.) Course fee may be required for bus trips.

106. Earth Science for Teachers (4)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics, including algebra, geometry, and intermediate algebra or the equivalent.
Introduction to earth science including geology, oceanography, meteorology, solar system and astronomy. Scientific method addressed. Methods of teaching science to K-8 pupils.
Letter grade only (A-F). (Lecture, demonstration 3 hrs., laboratory 3 hrs., field trips.)

110. Natural Disasters (3)
Prerequisites: Completion or concurrent enrollment in courses that fulfill the GE A.1 and B.2 requirements. Concurrent enrollment in GEOI 110 is recommended.
Introductory study of Earth's natural processes that severely impact humans. Includes study of processes causing natural disasters such as earthquakes, volcanic eruptions, landslides, floods, tsunamis, hurricanes, tsunamis, and asteroid impacts.
(Lecture 3 hrs.)

110L Natural Disasters Laboratory (1)
Prerequisites: Completion or concurrent enrollment in courses that fulfill the GE A.1 and B.2 requirements. Concurrent or prior enrollment in GEOI 110.
Laboratory analysis of geological data and field observations of geological features associated with natural disasters.
Course fee may be required. (Laboratory 3 hrs., field trips.)

160. Introduction to Oceanography (3)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
Origin and extent of oceans, nature of ocean floor, and cause and effect of currents, tides, and waves; and life in the ocean.
(Lecture, discussion 3 hrs.)

160L. Introduction to Oceanography Laboratory (1)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra (MAPS 7) or the equivalent; and previous credit or concurrent registration in GEOI 160.
Field and laboratory study of marine environment. Analysis of maps, plus shore and on-water trips for experience in use of oceanographic instruments. Analysis and interpretation of results.
(Laboratory 3 hrs.) Course fee may be required.

190. Environmental Geology (3)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
(Lecture 3 hrs.)

191. Air and Water Pollution (3)
Prerequisites: Completion of or concurrent enrollment in a course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
Survey course dealing with the causes and nature of pollution in the air, groundwater, fresh water lakes and streams, and the ocean. Effects of air and water pollution on the environment.
(Lecture 3 hrs.)

240. Historical Geology (4)
Prerequisites: GEOI 106 or both GEOI 102, 104.
History of earth and evolution of animals and plants.
(Lecture 3 hrs., laboratory 3 hrs., field trips.)

250. Introduction to Field Petrology and Geological Field Techniques (3)
Prerequisites: GEOI 102 with 104 or 105; or GEOI 106, all with grades of "C" or better. Corequisites: GEOI 240.
Identification and description of igneous, sedimentary, and metamorphic rocks in the field. Development of fundamental geological field techniques: recording, collection, and interpretation of geological data. Creation and interpretation of geological maps, writing technical reports, and construction of geological illustrations.
Letter grade only (A-F). (Lecture 1 hour, weekend field trips.)

273. Computer and Statistical Methods in Geology (4)
Prerequisites: GEOI 240, MATH 117 or 122. An elementary background in computers is recommended.
Introduction to statistical theory, computer programming, and the use of computer-based statistical and graphical packages as applied to problem-solving in the geological sciences.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 6 hrs., field trips.) Course fee may be required.

280. Water Resources and Society (3)
Prerequisites: GEOI 102, 104. A grade of "C" or better in MATH 117, or four years of high school mathematics.
Hydrologic, geologic, and other factors controlling groundwater and surface water occurrence, movement, quality, and contamination. Environmental effects of groundwater and surface water contamination.
(Lecture 3 hours; field trips)

UPPER DIVISION

3001. Earth Systems and Global Change (3)
Prerequisites: Completion of the G.E. Foundation, upper division status, and CHEM 100 or CHEM 111A or GEOI 102 or GEOI 106 with a grade of "C" or better.
Interaction of Earth's systems (biosphere, lithosphere, hydrosphere, cryosphere, and atmosphere) and links between life, oceans, climate, and the solid earth. This approach is used to understand important issues confronting society regarding climatic and environmental change.
Letter grade only (A-F). (Lecture 3 hrs.)
303. Coastal Systems and Human Impacts (3)
Prerequisites: Completion of the G.E. Foundation, one or more
Explorations courses, and upper-division standing: BIOL 102 or 160.
Natural processes impacting human activities in coastal zone and
human influence on natural processes. Includes global warming,
sea level rise, El Nino, port development, ocean outfalls and water
quality, fisheries, and coastal erosion.
May not apply units toward elective requirements of Geology and
Earth Science majors. Letter grade only (A-F). Not open for credit
students with credit in BIOL 103. (Lecture 3 hrs.)

322. Crystallography, Mineralogy and Optical Methods
(5)
Prerequisites: GEOL 250; CHEM 101 or 111A.
Morphological and structural crystallography, crystal structure,
chemistry, classification, origin, occurrence, and association of
minerals reviewed. Analysis and identification of minerals by
petrographic and optical microscope techniques. Analysis of
minerals reviewed including nature of light. 
Letter grade only (A-F). (Lecture 3 hrs., laboratory 2 hrs., field trips)

339. Introduction to Geomorphology (3)
Prerequisites: GEOL 102 with a grade of C or better; or
CHEM 111A or 111B. 
Study of landforms and processes producing and modifying
them. Emphasis is on mechanics of geomorphic processes and
relationships between properties of earth materials and forces
acting on them by gravity, wind, ice, water, waves, and humans.
Conceptual basis of geomorphology addressed.
Prerequisites: GEOL 102 with a grade of C or better; or
CHEM 111A or 111B. 
Lecture grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs., field trips)

341. Paleontology and Biostratigraphy (4)
Prerequisites: GEOL 240 and BIOL 200. 
Morphologic, systematic, and ecological aspects of invertebrate
fossils; methods and techniques in collection, preparation,
illustration, and description of fossil. Use of fossils in stratigraphic
work. (Lecture 3 hrs., laboratory 3 hrs., field trips) 
Letter grade only (A-F). (Field trips, 5 days per unit)

350. Spring Field Geology (2)
Prerequisites: GEOL 205 and 443 with grades of "C" or better. 
Lecture and discussion of geological principles. 
Lecture and laboratory 3 hrs. 
Letter grade only (A-F). (Field trips, 5 days per unit)

364. Introduction to Geological Oceanography (2)
Prerequisites: GEOL 102 or 160; and CHEM 111A or MATH 122, or
consent of instructor.
Introduction to basic oceanography and marine geology. 
(Lecture 3 hrs., sea trips)

364L. Laboratory in Geological Oceanography (1)
Prerequisites: GEOL 364.
Laboratory methods and sampling techniques in marine geology. 
(Laboratory 1 hr., sea trips)

370. Geology for Engineers (2)
Prerequisites: MAE 172, CE 130.
Earth processes and materials which influence the design,
construction and operation of engineering works. Not open for credit
to geology majors. (Lecture 2 hrs., field trips)

410. Biogeochmical Cycles (3)
Prerequisites: GEOL 102, 200 or 461; BIOL 102R or 200 or 211A,B or
BIOL 111, 111L, 212, 212L, 213, and 213L; MATH 122; CHEM
111A, B; or GEOL 151. (Undergraduates enroll in GEOL 410; graduates
enroll in GEOL 510.)
Study of carbon, nitrogen, phosphorus, iron, and sulfur cycles
among the lithosphere, hydrosphere, and atmosphere with an emphasis
on transfer rates, mass balance, and residence times. Evaluation of
processes and interactions of these cycles among major ecosystems
(wetlands, rivers, oceans, lakes, estuaries).
Letter grade only (A-F). (Lecture 3 hrs.)

420. Geomorphology (3)
Prerequisites: Upper division or graduate standing in the College
of Natural Sciences and Mathematics; ENGL 100 or equivalent; a
course in geology; consent of instructor.
Writing for scientific audience; writing scientific content at an
advanced level emphasized. Journal articles and abstracts
reviewed. Includes handling descriptive scientific data, distinction
between data and interpretation, logic and argument, clarity
of style, and writing for specific audiences. Literature review.
Enrollment limited.
Letter grade only (A-F). (Lecture 3 hrs.)

422. Advanced Mineralogy (4)
Prerequisites: GEOL 322; CHEM 111B.
Minerals and crystal structure studies emphasizing importance
of non-silicate minerals to sedimentary petrology and economic
geology. Includes physical and optical properties, flame and
diffraction techniques, and X-ray diffraction of native elements.
(Lecture 3 hrs., laboratory 3 hrs., field trips) 
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs., field trips)

424. Sedimentary Petrology (4)
Prerequisites: GEOL 329 and 443. (Undergraduates enroll in
GEOL 424; graduates enroll in GEOL 524.)
Microscopic and macroscopic study of the origin and diagenesis
of sedimentary rocks. Identification of grain types, textures,
structures, and cements emphasizing provenance, paleoecology,
paleoenvironmental reconstructions, and post-depositional
alteration.
Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

428. Igneous and Metamorphic Petrology and
Petrography (4)
Prerequisites: GEOL 322; CHEM 111A, B.
Magmatic and metamorphic rocks and systems
characteristics, including mineralogical and chemical aspects.
Facies origin, evolution of igneous and metamorphic rocks,
modelling of magma genesis. Microscopic, hand specimen
and x-ray analysis of rocks, including fabric and mineral content.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 6 hrs., and field
trips)

430. Seminar in Structural Geology and Tectonics
(3)
Prerequisites: GEOL 433. (Undergraduates enroll in GEOL 430; graduates
enroll in GEOL 530.)
Review of analysis, interpretation, and origin of geologic structures,
mechanics of rock deformation and of large-scale crustal
deformation.
(Lecture 2 hrs., laboratory 3 hrs., field trips)
443. Structural Geology (4)
Prerequisites: GEOL 250, 322; PHYS 151.
Theories/principles of structural geology, orogenesis, and tectonics. Planar linear structures in naturally deformed rocks. Description, classification, interpretation, and kinematic and dynamic analysis of faults/folds. Field measurement, analysis and mapping of structures. Deformation, strength, fracture, and rheological properties of rocks.
Lecture grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs., required field trips)

443. Stratigraphy/Sedimentology (4)
Prerequisites: GEOL 240, 322.
Introduction to sedimentology and stratigraphy, flow mechanics and sedimentary structures, laboratory and field methods for the description and classification of sedimentary rocks, depositional systems, sequence stratigraphy, subsurface stratigraphic methods, sedimentation and tectonics, preparation of sedimentologic field reports.
Not open for credit to students with credit in GEOL 545. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs., required field trips)

445.444. Engineering Geology (4)
Prerequisites: GEOL 250, 273, 322; MA/II 122, 123; CHEL 111A; PHYS 151, 152. Undergraduates enroll in GEOL 444; graduate students enroll in GEOL 944.
In depth study of the fundamentals of engineering geology and related hazards. Evaluation of aggregate, cement and grouts. Soil and rock engineering characteristics.
Lecture grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.; field trips.)

450. Summer Field Geology (4)
Prerequisites: GEOL 350, 428, 433, and 443.
Four weeks of geological field mapping at a selected area. Preparation of geological reports of the field problems.
(Lecture as needed, daily field work)

460. Introduction to Geophysics (3)
Prerequisites: PHYS 151, 152; MA/II 123; and GEOL 273.
Introduction to geophysics; principles and processes; methods of investigation.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.; field trips.)

461. Introduction to Geochemistry (3)
Prerequisites: CHEL 111A; and MA/II 123.
Abundance and migration of elements in the earth; chemical processes in evolution of earth and its crust including geochemistry of organic compounds.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

462. Physics and Chemistry of the Earth's Interior (3)
Prerequisites: GEOL 240, 428; PHYS 152.
Structure and composition of the Earth's interior. Origin and evolution of the Earth. Review of geophysical data, petrologic analysis, and other types of evidence for Earth structure and compositional models.
Lecture grade only (A-F). (Lecture 3 hrs.)

465.565. Physical and Chemical Oceanography (3)
Prerequisites: CHEL 111B, PHYS 100B, and upper division standing in the College of Natural Sciences and Mathematics or Engineering. Undergraduates enroll in GEOL 465; graduate students enroll in GEOL 565.
Physics and chemistry of the oceans, carbon cycle, minor and trace elements in sea water, nutrients, water masses and currents, physical concepts and interpretative theories related to ocean circulation.
(Lecture 3 hrs.)

466. Oceanography Laboratory and Ocean Studies (1)
Prerequisite: Concurrent or prior enrollment in GEOL 465. Analysis and interpretation of oceanographic data, acquisition of data at sea on field trip, and post-cruise analysis and presentation of results.
Not open for credit to students with credit in GEOL 462. (Laboratory 3 hrs., sea trips)

471. Petroleum Geology and Well Log Analysis (4)
Prerequisites: GEOL 240, 443.
Geological application in exploration and production of petroleum, including uses of surface and subsurface techniques. Basic well logging techniques employed, including data collection, reduction, interpretation, and integration among various logging methods as well as with surface geology and geophysical data.
(Lecture 2 hrs., laboratory 6 hrs., field trips.)

477.577. Hydrogeology (3)
Prerequisites: GEOL 102, 104; CHEL 111B; PHYS 152; MA/II 123. Undergraduates enroll in GEOL 477; graduate students enroll in GEOL 577.
Hydrologic, geologic, and other factors controlling ground water flow, occurrence, development, chemistry, and contamination. Elementary ground water flow theory. Well hydraulics.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

485.586. Engineering Geophysics (3)
Prerequisite: GEOL 485 (may be taken concurrently).
Applying geophysical techniques to geology and hydrogeology problems. Geophysical techniques and identification and utilization of specialized techniques. Case histories in site evaluations, subsiding areas, basement topography mapping, seepage problems, water table mapping, groundwater contamination, and subsurface cavities detection.
Lecture grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.; field trips.)
Course fee may be required.

489. Current Topics in Geological Sciences (3)
Prerequisite: Consent of instructor.
Topics of current interest in the geological sciences selected for intensive development.
May be repeated to a maximum of 6 units. Field trips may be required. (Lecture 2 hrs., laboratory 3 hrs.)

B. Urban Geology

490. Current Topics in Geological Sciences (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in the geological sciences selected for intensive development.
May be repeated to a maximum of 6 units. Field trips may be required.

K. Economic Mineral Deposits

495. Investigations in Geology and Other Earth Sciences (1-4)
Prerequisites: Senior standing in geology, earth science or related fields, completion of an upper division course in geology or earth science in the area of the topic chosen and approval of the topic chosen by the Geological Sciences faculty.
Supervised research in geology or the other earth sciences. Field trips may be required.

GRADUATE LEVEL

500. Introductory Graduate Seminar (1)
Prerequisite: Graduate standing.
Introduction to graduate policies and faculty research in Geological Sciences. Abstracts on faculty presentation required of all students.
Course cannot be counted for program requirements for the M.S. degree in Geology. Credit/No Credit grading only. May be repeated to a maximum of 3 units. (Seminar 1 hr.)
510.410. Biochemical Cycles (3)
Prerequisites: GEOL 102, 200 or 481; BIOL 200 or BIOL 211 A/B or BIOL 211 I/L, 212, 212 L, 213, and 213 L; MATH 122; CHEM 111 A, B; or GEOL 191, (Undergraduates enroll in GEOL 410; graduates enroll in GEOL 510.)
Study of carbon, nitrogen, phosphorus, iron, and sulfur cycles among the bio-, hydro-, and geospheres with an emphasis on transfer rates, mass balance, and residence times. Evaluation of processes and interactions among key ecosystems (wetlands, rivers, ocean, lakes, estuaries).
Letter grade only (A-F). (Lecture 3 hrs.)

524.424. Sedimentary Petrology (4)
Prerequisites: GEOL 322 and 443. (Undergraduates enroll in GEOL 424; graduates enroll in GEOL 524)
Microscopic and macroscopic study of the origin and diagenesis of sedimentary rocks. Identification of grain types, textures, structures, and cements emphasizing provenance, palaeoecotectonics, and paleo-environmental reconstructions, and post-depositional alteration.
Letter grade only (A-F). (Lecture 3 hrs.; Laboratory 3 hrs.)

530.430. Seminar in Structural Geology and Tectonics (3)
Prerequisite: GEOL 433. (Undergraduates enroll in GEOL 430; graduates enroll in GEOL 530)
Review of analysis, interpretation and origin of geologic structure, mechanics of rock deformation and of large scale crustal deformation.
(Lecture 2 hrs., laboratory 3 hrs.; field trips.)

537. California Geology (3)
Prerequisites: GEOL 102, 200 or BIOL 211 A/B. (Undergraduates enroll in GEOL 437; graduates enroll in GEOL 537)
Examination of recent theories concerning evolution of California's geological provinces; geological, geochemical, and geophysical evidence for these theories.
Letter grade only (A-F). (Lecture 3 hrs.; field trips.)

544.444. Engineering Geology (4)
Prerequisites: Prerequisites: GEOL 250, 273, 322, MATH 122, 123; CHEM 111 A/B; PHYS 151, 152. (Undergraduates enroll in GEOL 444; graduates enroll in GEOL 544)
In depth study of the fundamentals of engineering geology and related hazards. Evaluation of aggregate, cement and gravels. Soil and rock engineering characteristics.
Letter grade only (A-F). (Lecture 3 hrs.; Laboratory 3 hrs.; field trips.)

554. Environmental Geochemistry (3)
Letter grade only (A-F). (Lecture 3 hrs.; field trips.)

565.465. Physical and Chemical Oceanography (3)
Prerequisites: CHEM 111 B; PHYS 152 or 100B; and upper division standing in the College of Natural Sciences and Mathematics or Engineering. (Undergraduates enroll in GEOL 465; graduates enroll in GEOL 565)
Physics and chemistry of the ocean, carbon cycle, minor and trace elements in sea water, nutrients, water masses and currents, physical concepts and interpretative theories related to ocean circulation.
(Lecture 3 hrs.)

570. Special Topics in Geology (3)
Prerequisite: Consent of instructor.
Investigation of selected topics in geology. May be repeated to a maximum of 9 units toward any single degree with different topics. Seminars with field trips as appropriate.
Letter grade only (A-F). (Seminar 3 hrs.) May be repeated to a maximum of 9 units with different topics in different semesters.

575. Advanced Topics in Sedimentology (3)
Prerequisite: Consent of instructor.
Investigation of topics in sedimentology such as depositional facies analysis, basin evolution, coastal processes, fluvial processes, advanced stratigraphic analysis, and tectonics and sedimentation. Content varies from year to year. May be repeated to a maximum of 9 units toward any single degree with different topics in different semesters. Seminars with field trips as appropriate.
Letter grade (A-F). (Seminar 3 hrs.)

577.477. Hydrogeology (3)
Prerequisites: GEOL 102, 104; CHEM 111 B; PHYS 152; MATH 123. (Undergraduates enroll in GEOL 477; graduates enroll in GEOL 577)
Hydrologic, geologic, and other factors controlling groundwater occurrence, development, chemistry, and contamination. Laboratory groundwater flow theory. Well hydraulics.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

586.486. Engineering Geophysics (3)
Prerequisites: GEOL 486; (Undergraduates enroll in GEOL 486; graduates enroll in GEOL 586)
Applying geophysical techniques to geology and hydrogeology problems: Geophysical techniques, and identification and utilization of specialized techniques. Case histories in site evaluations, subsiding areas, basement topography mapping, seawater problems, water table mapping, groundwater contamination, and subsurface cavities detection.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.; field trips.) Course fee may be required.

96. Directed Research (1-3)
Prerequisite: Consent of instructor.
Research on a specific subject in geology. Topic for study to be approved and directed by a faculty member in geological sciences.
Letter grade only (A-F).

98. Thesis (1-6)
Prerequisite: Advanced to candidacy for M.S. in Geology, consent of Graduate Committee and graduate advisor. Either laboratory or field investigations, or both, for a total of six semester units to culminate in an approved thesis.
Letter grade only (A-F).
GERMAN
College of Liberal Arts
Department of Romance, German, Russian Languages and Literatures

Department Chair: Lisa Vollendorf
Program Director: Jeffrey High

GERLL Language Coordinator: Markus Muller
Single Subject Coordinator for L.O.T.E.: Jean-Jacques Jutra
Department Office: Academic Services, Room 309
Telephone: (562) 985-4518
Faculty: Nwe Hempel-Lamer, Jeffrey High
Administrative Analyst/Specialist: Cindy McCarty

Students desiring information should contact the department office for referral to one of the faculty advisors. Credential advisors: Undergraduate Advisor, Graduate Advisor.

Career Possibilities
Customs Officer • Immigration Officer • Importer/Exporter • Foreign Service Officer • International Marketing Representative • Travel Professional • Social Worker • Linguist • Foreign Correspondent • Community Organization Worker • Lawyer • Librarian • International Student Advisor • Educator • Peace Corps Worker • Interpreter • Teacher Professor • Translator • CIA/FBI Agent (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The German program develops the student’s language skills and knowledge of literature, history, and current affairs in German-speaking countries, as well as cultural literacy, all of which play an important role for study abroad and employment in a variety of careers. In cooperation with the College of Engineering, the German Program promotes a double major of German and Engineering. In addition, the Program offers a BA in German Studies with a concentration/certificate in the Administration of Travel and Tourism. German Studies maintains exchange programs with the University of Bielefeld, Essen, and Oldenburg as well as Freiburg (Switzerland) and Salzburg (Austria), and all of the universities in Bader-Wurttemberg. German students are also eligible to participate in the German-American Business Student Workshop with the Polytechnic University Hamburg, Germany.

Undergraduate Programs

Bachelor of Arts in German (code RGR_BA02) (120 units)

The German Studies Program promotes competency in the use of language and understanding of cultural history and contemporary society in German-speaking countries. It is designed to meet the needs of students seeking a liberal-arts education with an emphasis on German language and culture; those intending to teach at the elementary, secondary, or the college or university level; and of those planning to use German in professional careers or in pursuit of graduate studies. Efforts are made to accommodate the special needs of students who simultaneously pursue a major in Business, Engineering, or a certificate in Travel and Tourism.

Requirements

Lower Division: One year of intermediate German or equivalent. Students who have completed sufficient high-school German may take upper-division courses as soon as lower-division requirements have been met. Native speakers of German may not enroll for credit in 101A/B or 201A/B.

Upper Division: A minimum of 33 units (36 for Single Subject) of upper-division courses in German, which must include: GERM 301, 302, 415, and 416 and twelve (12) additional units of 400-level literature and culture courses: 430, 440, 450, 458, 459, 460, 480, and 498

Recommendations: Courses should be selected in consultation with the major advisor. The department strongly recommends studies or an internship in a German-speaking country and will assist in such plans.

Single Subject Teaching Credential, German (code 153)

Completion of the German major (plus 6 additional units) meets the subject matter competence requirement for the Single Subject Preliminary Credential in German (code 153). Prospective students should consult the undergraduate German Advisor and the Languages Other Than English (LOTE) Program Advisor early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective teachers of German are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

The German Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

The same as for the B.A. plus GERM 303 and 410 or equivalent.

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Minor in German (code RGR_UM03)

A minimum of 20 upper division units, which must include: GERM 301, 302, 415, and 416.

The Minor in German is available to any non-German major.

Graduate Programs

Master of Arts in German (code RGR_MA02)

The Master of Arts in German prepares students for academic and other professional careers. The Program is committed to support each graduate student in his or her career goals and works together with other programs and departments on campus to help formulate a meaningful and marketable study plan for each student. Many of our graduates go into teaching at the secondary and post-secondary level and are successful in competing for fully supported Ph.D. programs throughout the U.S. We encourage students to study at German-speaking universities and assist with overseas study plans.

For graduate students interested in multimedia teaching technology, the program provides special projects and practical opportunities. Teaching Assistantships are available.

Prerequisites
1. A bachelor of arts degree in German or:
2. A bachelor's degree with a minimum of 24 units of upper-division courses in German. These courses must be comparable to those required of a major in German at the University. Deficiencies will be determined by the department.

Advancement to Candidacy

Advancement to Candidacy should take place upon completion of at least six units, preferably no more than nine units applicable to the program, with at least a 3.0 GPA.

The candidate may file for advancement to candidacy only after she/he has filed a transcript of credits or a change-of-objective form, completed the prerequisites, and fulfilled the Graduation Writing Assessment Requirement (GWAR).

The student graduate program must be approved by the graduate advisor, departmental committee, and the College of Liberal Arts Associate Dean of Graduate Studies.

Requirements
1. Completion of a minimum of 30 units of approved upper-division and graduate courses with 24 units in German;
2. A minimum of 18 units in the 500 and 600 series in German which must include GERM 510.
3. A reading knowledge of French, Italian, Latin, Russian, or Spanish. Another language may be substituted only under special circumstances;
4. A comprehensive examination or, with permission of a Graduate Advisor, a thesis.

German Courses (GERM)

LOWER DIVISION

101A. Fundamentals of German (4)
Prerequisite or Corequisite: Any Foundation course.
Beginning the study of German.
or non-native speakers only, and is not open to heritage speakers or native speakers of German. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
(Lecture 4 hrs.)

101B. Fundamentals of German (4)
Prerequisite or Corequisite: Any Foundation course.
Continuation of GERM 101A.
For non-native speakers only, and is not open to heritage speakers or native speakers of German. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
(Lecture 4 hrs.)

201A. Intermediate German (4)
Prerequisite: GERM 101B and completion of the 13-unit Foundation requirement (or entering competency equivalent to GERM 101B and completion or concurrent enrollment in at least one Foundation course). German grammar review with further development of reading, writing, and conversational skills.
For non-native speakers only, and is not open to heritage speakers or native speakers of German. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
(Lecture 4 hrs.)

201B. Intermediate German (4)
Prerequisite: GERM 201A and completion of the 13-unit Foundation requirement (or entering competency equivalent to GERM 201A and completion or concurrent enrollment in at least one Foundation course). German grammar review with further development of reading, writing, and conversational skills.
For non-native speakers only, and is not open to heritage speakers or native speakers of German. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
(Lecture 4 hrs.)

204. German for Reading Knowledge (3)
Prerequisites: GERM 101A,B or equivalent or consent of instructor.
Concentrates on essentials for translation and is designed chiefly for students in any field who are preparing for reading exams in German.

UPPER DIVISION

301. Fiction and Fact: Short Texts (3)
Prerequisite: GERM 201B or equivalent. Intensive practice and the consolidation of the basic language skills: reading comprehension, composition, and conversation. Emphasis on reading, comprehension, vocabulary building, and idiomatic usage.

302. Language of the German Media (3)
Prerequisite: GERM 201B or equivalent. Intensive practice and the consolidation of basic skills: reading, comprehension, composition, and conversation. Emphasis on composition, oral reports, and discussion.

303. German Phonetics (3)
Prerequisite: Upper-division standing in German or consent of instructor.
General concepts of linguistic science. Linguistics applied to the study and teaching of the German language. Articulatory phonetics as a means to form native German pronunciation habits with emphasis upon the difficulties encountered by speakers of American English.
305. Speak Along, Sprechen Sie Mit
Prerequisite: Upper-division standing in German.
Intensive practice of spoken German with stress on vocabulary
building, pronunciation, intonacion, and oral comprehension.
Credit/No Credit grading only. May be repeated to a maximum
of 6 units.

306. Translating German to English (3)
Prerequisite: Upper-division standing in German or consent of
instructor.
The preparation of translations from German texts of wide-ranging
subject matter.

309. Business German (3)
Prerequisites: GER 101A, B or equivalent or consent of instructor.
Advanced language course to acquaint students with terminology
of German business. Conversational and written approaches
are used. Emphasis is placed on business correspondence, forms
of business and corporate organizations, transportation, banking,
management, protection, marketing.
Not open for credit to students with credit in GER 307 or 308.

370. German Literature in English (3)
Study of significant German writers. German literary movements,
or a specific literary genre in English translation.
May be repeatable for 6 units in different semesters. Not open for
credit to students with credit in GER 470.

380L. Contemporary Germany: Society and Culture (3)
Prerequisites: Completion of GE Foundation requirements, one
or more Explorations courses, and upper-division standing.
Germany today presents a unique case study for difficulties and
crises in German unity. Course is taught through texts of
fiction and literature. Taught in German.

398. Topics in German (3)
Prerequisite: Upper-division standing in German or consent of
instructor.
Exploration of topics in language, culture, and literature. Specific
topics to be announced in the Schedule of Classes.
May be repeatable to a maximum of 6 units with different topics.

401. Advanced German Syntax and Composition (3)
Prerequisite: GER 301, 302. Practice in developing a style
and vocabulary suitable for the writing of reports and essays on
literary topics.
May be repeated to a maximum of 6 units.

410. History and Stories: German Civilization (3)
Prerequisite: Upper-division standing in German.
Historical development of German institutions, customs and
thought.

415. Under the Italian Spell: Survey of German
Literature and Culture I (3)
Prerequisite: Completion of GE Foundation requirements.
German literature from the Middle Ages to the time of Goethe,
as related to the other arts, to philosophy, and to the social
and political institutions of the time.

416. Toward Europe: Survey of German Literature and
Culture II (3)
Prerequisite: Completion of GE Foundation requirements.
German literature from Romanticism to the present, as related
to the other arts, to philosophy, and to the social and political
institutions of the time.

430-430L. Rhyme Scene Investigation: German Poetry
(3)
Prerequisite: Upper-division standing in German.
German poetry from the Baroque to the present.

440. German Novella in Context (3)
Prerequisite: Upper-division standing in German.
The German Novella as a separate literary genre, represented by
Goethe, Tieck, Kleist, Kallmer, Meyer, Storm, Späthagen, Hesse,
Kafka, Thomas Mann, and others.

450. Reason, Revolution, Reaction (3)
Prerequisite: Upper-division standing in German.
Liberal trends of the 18th century, with emphasis on Lessing,
Wehland, Klopflock, Herder, Goethe and Schiller and the authors
from "Sturm und Drang" to Romanticism.
Letter grade only (A-F).

458. Road to Modernity (3)
Prerequisite: Upper-division standing in German.
Representative literary works of the "Diedormarler," "Junge
Deutschland" and "Postdachtor Realismus" against the back-
ground of the historical, philosophical, and cultural movements
of the time.
Letter grade only (A-F).

459. German Literature from 1890-1945 (3)
Prerequisite: Upper-division standing in German.
Major German prose, drama, and poetry from Naturalism to the
end of World War II.
May be repeatable for 6 units in different semesters.

460. Two Perspectives: 1945 to 1990 (3)
Prerequisite: Upper-division standing in German.
Significant contemporary German writers of prose, drama and
poetry in the context of the divided Germany.
Letter grade only (A-F).

480. Between Berlin and Hollywood: German Cinema
(3)
Acquaint students with the art of the medium, and the history
of German film, particularly as it is realized through the work of
the artists most responsible for its success or failure, in this case,
the director.
Letter grade only (A-F). Same course as FIA 457. Not open for
credit to students with credit in FIA 457.

494. Internship in German (1-3)
Prerequisites: Consent of instructor and department chair.
Field work in German, supplemented by readings and tutorials
under the direction of a faculty member. Internships, small
research group, discussion, preparation, and other assignments
directed by a supervising faculty member.
May be repeated to a maximum of 6 units. No more than 3 units
may be applied to the major in German.

498. Topics in German (3)
Prerequisites: Senior standing in German or consent of instructor.
Selection of topics in language, culture, and literature. Specific
topics to be announced in the Schedule of Classes.
May be repeated to a maximum of 9 units with different topics
in different semesters.

499. Directed Studies (1-6)
Prerequisite: Consent of instructor.
Independent study undertaken under the supervision of a faculty
member.

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GRADUATE LEVEL

510. The Faces of United Germany: Past, Present, and Future (3)
Prerequisite: Admission to the Graduate Program in German or consent of Graduate Advisor in the German Studies. The course locates the present concentration of international research in the disciplines and requires individual research, presentation of findings, and a substantive paper. Letter grade only (A-F).

530. Rhyme Scene Investigation: German Poetry (3)
Prerequisite: Graduate standing in German.
Letter grade only (A-F).

540. German Novella (3)
Prerequisite: Graduate standing in German.
The German Novella as a separate literary genre, represented by Goethe, Tieck, Klopstock, Hoffmann, iterating the historical, philosophical, and cultural movements of the times.
Letter grade only (A-F).

550. Reason, Revolution and Romantic Thought (3)
Prerequisite: Upper-division standing in German.
Intruduction to the 18th century, with emphasis on Lessing, Wieland, Klopotock, Hordor, Goeth and Schiller, and authors from "Sturm und Drang" to Romanticism.
Letter grade only (A-F).

558. Road to Modernity (3)
Prerequisite: Upper-division standing in German.
Representative literary works of the "Biedermeier," "Jureges Deutschland" and "Poetischer Realismus" against the backdrop of the Historical, philosophical, and cultural movements of the times.
Letter grade only (A-F).

559. German Literature from 1890-1945 (3)
Prerequisite: Upper-division standing in German. Major German prose, drama, and poetry from Naturalism to the end of World War II.
May be repeatable for 6 units in different semesters.

560. Two Perspectives: 1945 to 1990 (3)
Prerequisite: Upper-division standing in German.
Significant contemporary German writers of prose, drama and poetry in the context of the divided Germany.
Letter grade only (A-F).

590. Theoretical Approaches (3)
Prerequisite: B.A. in German or equivalent.
Evaluation of various methods in interpreting a literary work of art, different levels of interpretation, concepts of literary movements, complexity of structure related to content, literary appreciation, introduction to bibliographical aids.
May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

598. Topics in German (3)
Prerequisites: B.A. in German or equivalent.
Exploration of topics in language, culture and literature. Specific topics to be announced in the Schedule of Classes.
Letter grade only (A-F). May be repeated to a maximum of 9 units, with different topics in different semesters. Students with credit in GERM 511 may only have a total of 9 units of GERM 511 and GERM 598 combined.

599. Directed Studies (1-3)
Prerequisites: Graduate standing. Consent of instructor and chairperson or graduate advisor. Selected topics in German to be pursued in depth. May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

553. Seminar in German Literature (3)
Prerequisite: Corresponding 400-500-level century course or consent of graduate advisor.
Topics dealing with literary trends, literary genres, or individual authors. May be repeated to a maximum of 6 units in different semesters. Intensive studies in:
A. 17th Century Baroque
B. 18th Century Classicism
C. 19th Century Realism
D. 20th Century German Literature

697. Directed Research (1-3)
Prerequisites: Consent of graduate advisor. Required of all candidates for the master of arts in German who do not choose to write a thesis.
Letter grade only (A-F).

598. Thesis (1-4)
Prerequisite: Consent of graduate advisor.
Planning, preparation, and completion of a thesis. Does not count toward 30 units required for the M.A. degree.
GERONTOLOGY
College of Health and Human Services

Director: Barbara White
Department Office: Family and Consumer Sciences Faculty (FCS)
Admissions, Room 104
Telephone / FAX: (562) 985-1582 / 985-4414
Email: bwhitfield@csulb.edu

Administrative Support Coordinators: Mikal Lek
Instructional Support Technicians: Bonnie Rice

Faculty Interest Group
Jeanne Bidder (emeritus), Les Blocher, Kay Cerny, Young-Hoe Cho (emeritus), Maria Clower, Tom Crowe, Shelley Erickson, Joseph Fishor, Mohamed Fournier, Gail Frank, Robert Fries, Carmen Gallang, Agathe Glezakos, Catherine Goodman, Kenneth Gregory (emeritus), Sharon Guthrie, Judy Halls, Robert Harman (emeritus), David Harrison, Joellen Hartley, Alan Henderson, Carol Itani, Huzai Jackson, Mary Jacob (emeritus), K. J. James, Marilyn Jones, Barry Leway, Margaret Lichty, Tracey Mayfield, Offat Mohamadi, Clyde Penta, Maudlyn Polts, Bonnie Rader, Molly Rahway, Wendy Reboldt, Pamela Roberts, Jan Schroeder, David Schult, Donna Schwartz, Lydia Sonnen, Kim Sheng Vuu, Lileen Watson, Barbara White, Mary Wolfinbarger

Career Possibilities
General: Community/social services agencies; Health care and long-term care institutions; Federal, State, and local government agencies, including the system of service delivery to older persons under the Older Americans Act; Retirement communities; Academic and other educational and research settings; Professional organizations; Business and industry; Religious organizations; The arts and sciences.

Direct Service: Developing programs such as health promotion, recreation and leisure, and intergenerational activities in senior centers, community agencies, or retirement communities; providing direct care and elder care management; teaching in long-term care settings and their caregivers in hospitals, clinics, nursing homes, assisted living, adult day care or home care programs; Teaching in senior adult community settings; Counseling older persons and their families about issues of caregiving, employment, finances, death and dying, or mental health; Advising older clients about estate planning and investments; Long-term care financing; Housing options; Advocating for older adults as an ombudsman, conservator, or care manager.

Indirect Service: Analyzing issues related to older persons such as retirement income, the health care system, housing alternatives, planning, administering, and evaluating community-based and health-related services for older persons and their families; Writing grants to support programs; Teaching courses on aging to graduate students, college and university students, health care professionals; Advocating on behalf of older persons before legislative bodies; Designing products to meet the special needs and interests of older persons; Developing marketing strategies; Consulting with business, industry, labor, arts and sciences both nationally and internationally about older adults and aging.

Education: Certificate or degree. Some careers require education in a specialty field in addition to gerontology.
Knowledge about aging enhances every career and discipline.
(For more information, see www.carours.csulb.edu.)

Introduction
Gerontology is the scientific study of the processes and phenomena of aging, including biological, psychological, and sociological dimensions. Mission: The California State University, Long Beach. Gerontology Program is dedicated to 1) Improving the lives of middle aged and older individuals in California and around the world by preparing students to work with diverse older adults, families, service providers, businesses, educators, and legislators; 2) Providing timely, high-quality training, consultation, and other services; and 3) Conducting research designed to inform planning and implementation of activities that promote optimal well-being of older adults and their families.

The Gerontology Program's objectives are:
1. To provide a flexible interdisciplinary curriculum that gives new and seasoned professionals the competencies necessary for success in the field of aging.
2. To provide experiential as well as didactic graduate education and professional training in gerontology for individuals planning to become professionals in public and private agencies.
3. To provide professional field experiences in gerontology in order to enhance understanding of concepts, themes, and skills related to aging at various life stages, within different gender and racial/ethnic groups, and among people with various abilities.
4. To provide knowledge and skills necessary to plan, develop, and implement innovative programs to meet the needs of the State's vast and growing aging population.
5. To explore aging-related professional values and ethics.

The Gerontology Program is enhanced by the Gerontology Faculty Interest Group, the Center for Successful Aging and a chapter of Sigma Phi Omega, The National Academic Honor and Professional Society in Gerontology.

The Gerontology Faculty Interest Group is comprised of over 40 CSULB faculty members representing more than 20 disciplines. Members teach courses essential to the Gerontology Program, conduct gerontological research, and provide training and service. Lecturers and emeritus faculty members also are active in the Gerontology Program.

The Center for Successful Aging is part of a complex of centers and organizations on the campus of the California State University, Long Beach that are involved with aging-related issues. The Center for Successful Aging is a transdisciplinary academic/community partnership to promote collaborative innovations in education, practice, policy development and research related to aging, in a culturally diverse society.

Students in the Gerontology Program are eligible for membership in Sigma Phi Omega, the national academic honor and professional society in gerontology that recognizes the excellence of those who study gerontology/aging and the outstanding service of professionals who work with or on behalf of older persons.
CSULB is one of only a few California campuses to offer graduate programs to meet the State’s need for educated, experienced and diverse professional gerontologists. To accomplish this goal, two programs of study are offered:
A Master of Science in Gerontology and a Gerontology Certificate.

**Master of Science in Gerontology**  
(code FCS_MS02)

Interested students should contact Dr. Barbara White at 562-985-1582 or bwhite@csulb.edu

The Master of Science Degree in Gerontology is designed to prepare students with a thorough background in existing theory and research in gerontology, advanced principles of program management, and an enhancement to their baccalaureate preparation for their professional discipline. Students who complete the M.S. in Gerontology will accomplish the following objectives:
1. Acquire advanced education and professional training in gerontology in order to become administrators of state and federal programs, services such as senior centers and retirement homes, businesses, and intergenerational programs.
2. Enhance cultural competence regarding age, cohort, gender, race and ethnicity, and/or diverse abilities.
3. Acquire expertise in planning, developing, implementing, and evaluating innovative programs to meet the needs of older persons.
4. Demonstrate the ability to conduct appropriate research.
5. Exercise sound professional judgment based on high ethical standards and expectations.

**Admission Requirements**
1. Complete the application form to be admitted to the university with graduate standing.
2. Send the following materials to the Gerontology Program, in addition to those sent to the Office of Enrollment Services:
   - A Transcript of all undergraduate and graduate work.
   - Three letters of recommendation reflecting academic potential, personal qualifications, sensitivity, and evidence of ability and motivation to work with older adults and professionals in the field of aging.
   - A current resume.
   - A personal statement of interest in aging and career goals in the field.
3. Admission to the program is contingent on approval by the Gerontology Program Director.

**Prerequisites**
1. A bachelor’s degree from an accredited institution.
2. Evidence of a 3.0 or better grade point average in all undergraduate work. Students with less than a 3.0 grade point average in the last 60 undergraduate semester or 90 quarter units attempted but with evidence of professional promise and experiential background may be admitted conditionally by action of the Program Director.
3. Successful completion of the following courses or their approved substitutes: GERN 400; BIOL 301; PSY 365 or HDEV 357I; ANTH 454; An approved upper-division statistics course.

**Retention**
1. Maintain a 3.0 or better grade point average in all graduate work completed at CSULB and all approved graduate work transferred to meet graduate requirements.
2. Continuous satisfactory progress toward the degree objective.

**Advance to Candidacy**
1. Satisfy the general University requirements for advancement to candidacy.
2. Fulfill the Graduation Writing Assessment Requirement (GWAR) (to be taken during the first term).
3. Complete a minimum of six units of graduate level coursework in gerontology.
4. Be enrolled during the semester or summer session in which advancement to candidacy takes place.
5. Obtain approval for one’s individual program plan from the Gerontology Program Director and then from the Associate Dean of the College of Health and Human Services.

**Requirements**
- **Thesis Option:** Completion of a minimum of 37 units, with at least 26 units of 500 and/or 600 series courses in Gerontology, including GERN 563, 592, 600, 610, 696, 697, and 698. A maximum of six units may be taken outside of the major.
- **Directed Project Option:** Completion of a minimum of 37 units with at least 28 units of 500 and/or 600 series courses in Gerontology, including GERN 563, 592, 600, 610, 697, and 692. A maximum of six units may be taken outside the major.

**Certificate in Gerontology**  
(code FCS_CT03)

Interested students should contact Dr. Maria Cleaver at 562-985-4416 or mcleaver@csulb.edu

The Certificate program is designed to educate individuals as gerontology specialists within a major area of study. Alumni work in community programs, health services organizations, government agencies, and the private sector. The Certificate in Gerontology may be earned in conjunction with a baccalaureate degree or awarded subsequent to earning a bachelor’s degree. Up to six units of courses taken in the student’s major department may be approved to satisfy certificate requirements as may general education and elective courses also used to complete the bachelor’s degree if they contain appropriate gerontology content.

**Requirements**
1. In consultation with the Gerontology Certificate Coordinator, submit to Enrollment Services the intent form to add the Certificate in Gerontology to the major program of study.
2. A bachelor’s degree in any major (may be taken concurrently)
3. A minimum GPA of 2.5
4. 24 units distributed as follows
   - A. Fifteen (15) required units including GERN 400 (meets GE Capstone requirement), ANTH 454, BIOL 301, PSY 365 or HDEV 357I (meets GE Capstone requirement), and GERN 492 (an internship in a gerontology setting).
b. A minimum of nine units chosen in consultation with the Gerontology Certificate Coordinator from a list of approved elective courses (three to six units of appropriate coursework in the major field may partially fulfill this requirement). Three units may be fulfilled by taking GERN 497 or an approved substitute.

5. Application for the Certificate in Gerontology through completion of the appropriate Program Planner in consultation with the Gerontology Certificate Coordinator. This must be done in the semester prior to the completion of the Certificate to assure timely issuance of the Certificate.

Courses (GERN)

UPPER DIVISION

400L. Perspectives on Gerontology (3)
Prerequisites: Completion of the General Education Foundation, one or more Explorations courses, and upper-division standing. Multidisciplinary study of middle age and aging. Includes psychological, physiological, political, economic, and sociological aspects. Effects of culture and environment on aging; history and demographics; health issues. (Lecture-discussion, 3 hrs.)

420/J520. Personal Finance for the Aging (3)
Prerequisites: 400-level course in Consumer Affairs or consent of instructor.
Personal finance as applied to the aging population. Same course as CAFF 420. Not open for credit to students with credit in CAFF 420. (Lecture-discussion 3 hrs.)

424. Independent Living for Disabled and Elderly Persons (3)
Prerequisite: CAFF 321I or 322 or GERN 400I or consent of instructor.
Independent living concepts related to physically and/or functionally disabled adults. Personal, environmental and programmatic responses to disability and aging. Letter grade only (A-F). Same course as CAFF 424. Not open for credit to students with credit in CAFF 424. (Lecture/activity, 3 hrs.)

430/J530. Aging and Dementia (3)
Prerequisites: GERN 400I, HDEV 357I or PSY 305, or graduate standing, or consent of instructor.
An examination of physiological, psychological, social and economic aspects of dementia and its impact on the individual, the family and society. Community resources, current research and policy issues are included, with a particular emphasis on Alzheimer's disease. (Lecture-discussion, 3 hrs.)

439. Nutrition and Aging (3)
Prerequisites: NUTR 132 or BIOL 207 or consent of instructor.
Nutritional needs as related to physiological changes that occur during aging. Factors that influence food intake and nutritional status of the elderly. Diet adaptation for chronic diseases commonly found in older people. Same course as NUTR 439. Not open for credit to students with credit in NUTR 439. (Lecture-discussion, 3 hrs.)

460/560. Disability, Culture and Society: Issues and Intervention (3)
Prerequisites: Senior or graduate status.
Disability as a social construct. Examines policies and practices to understand the experience of disability, includes historical and contemporary perspectives as well as future issues. (Lecture-discussion, 3 hrs.)

474. Aging and Diversity in California (3)
Prerequisites: GERN 400I, or consent of instructor.
Projects meaningful to California elders and that build skills. Professionals discuss career paths, local aging networks, and how the diverse climates of the state and region shape aging-related events, trends, issues, and programs. Fieldtrips may be required. (Lecture/activity 3 units.)

482. Health Assessment of the Aging Client (3)
Prerequisites: GERN 400I or equivalent and upper division standing or consent of instructor.
Assessment of the physical, psychological and social status of the aging client as they affect health and well-being. Focuses on working with aging clients in a variety of settings to identify actual or potential health-related problems using various techniques. Same course as NRSG 482. Not open for credit to students with credit in NRSG 482. (Lecture-discussion, 3 hrs.)

485. Mental Health and Aging (3)
Prerequisites: GERN 400I, HDEV 357I or PSY 305, ANTH 454, and BIOL 401, or consent of instructor.
Mental health status of older adults over time and within subgroups. Societal responses affecting diagnoses and assessments of competence. Common mental health issues of older adults. Comparison of medical and non-medical therapeutics. Fieldtrips may be required. (Seminar 3 hrs.)

492G. Internship in Gerontology (3)
Prerequisites: Student must be a Gerontology Certificate candidate; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval from the Gerontology Certificate Coordinator; and GERN 400I, ANTH 454, PSY 305 or HDEV 357I. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval from the Area Coordinator.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student and supervisor must be approved by major advisor and form the basis for evaluation. May be repeated for 6 units maximum. Same as FCS 492G. (Seminar 3 hrs.)

497. Directed Studies (1-3)
Prerequisites: GERN 400I, ANTH 454, PSY 305, or HDEV 357I, upper division standing and consent of program director.
Independent study under the supervision of a faculty member. Exploration and experience supplementing and/or complementing regular courses. May be repeated to a maximum of 6 units.

499. Special Studies (1-3)
Group investigation of topics of current interest in gerontology. Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

GRADUATE LEVEL

500. Introduction to the Professional Practice of Gerontology (3)
Prerequisite/Corequisite: GERN 400I or equivalent; graduate standing or consent of instructor.
Graduate level introduction to the professional practice of Gerontology. Emphasis is on application of theoretical concepts, research in practice, ethics, career path exploration, and development of leadership career-related skills and resources. Letter grade only (A-F). (Seminars 2 hours, activity 2 hours.)

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520./420. Personal Finance for the Aging (3)
Prerequisites: 400-level course in Consumer Affairs or consent of instructor.
Personal finance as applied to the aging population.
Same course as FCS 520. Not open for credit to students with credit in FCS 520. Letter grade only (A-F). (Lecture-discussion 3 hours.)

524. Independent Living for Disabled and Elderly Persons (3)
Prerequisites: CAFF 3211 or 322 or GERN 4001 or consent of instructor
Independent living concepts related to physically and or functionally disabled adults. Personal, environmental and programmatic responses to disability and aging.
Letter grade only (A-F). Same course as FCS 524. Not open for credit to students with credit in FCS 524.

530./430. Aging and Dementia (3)
Prerequisites: GERN 4001, HDEV 3571 or PSY 355, or graduate standing, or consent of instructor.
An examination of physiological, psychological, social and economic aspects of dementia and its impact on the individual, the family and society. Community resources, current research and policy issues are included, with a particular emphasis on Alzheimer’s disease.

550. Social Policy and Aging (3)
Prerequisites: GERN 4001, HDEV 3571 or PSY 355, or ANTH 454 or consent of instructor.
Major legislation and policies affecting older Americans. Analyses of policy information and change, kinds of data, and social forces that affect development and implementation of aging-related policies and legislation.

563. Evaluation in Family and Consumer Sciences and Gerontology (3)
Prerequisites: Upper division or graduate course in statistics; GERN 4670 (may be taken concurrently) or equivalent.
Principles, design, and methods of program evaluation for use by Family & Consumer Sciences and Gerontology professionals. Selection and development of instrumentation for data collection and interpretation and methods of reporting.
Letter grade only (A-F). (Seminar 3 hours.) Same course as FCS 563. Not open for credit to students with credit in FCS 563.

569./469. Disability, Culture and Society: Issues and Social Intervention (3)
Prerequisites: Senior or graduate student.
Disability as a social construct. Examines policies and practices to understand the experience of disability, includes historical and contemporary perspectives as well as future issues. Emphasis on social and clinical intervention methods as well as programs and resources.
Same course as HEC 569 and SW 569. Not open for credit to students with credit in HEC 569 and SW 569. Letter grade only (A-F).

592. Internship in Family and Consumer Sciences/ Gerontology (3)
Prerequisites: Graduate standing and consent of instructor.
Field experience in which student assumes a self directed responsible role in an agency, business or other community setting.
May be repeated to a maximum of 6 units. (Seminar 3 hours) Letter grade only (A-F).

597. Independent Study (1-3)
Prerequisites: Graduate standing and consent of instructor.
Independent study under the supervision of a faculty member.
Exploration or experience supplementing and/or complementing regular courses to meet student learning goals.
May be repeated for a maximum of six units in different semesters.
Letter grade only (A-F).

599. Special Topics (1-3)
Prerequisites: Graduate standing
Group investigation of topics of current interest in gerontology.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of six units with different topics in different semesters.

660. Seminar in Administration of Family and Consumer Sciences/Gerontology Programs (3)
Prerequisite: Graduate standing.
Application of administration, management and leadership theories to family and consumer sciences/gerontology programs. Decision-making, organizational structures and evaluation concepts included.
Letter grade only (A-F). Same course as FCS 660. Not open for credit to students with credit in FCS 660.

610. Seminar in Current Issues, Trends and Research in Gerontology (3)
Prerequisite: Completion of all core courses except GERN 696, 697 or 698 any of which may be taken concurrently.
Students will undertake literature reviews and/or research to explore emerging issues, trends and research in the field of aging studies and/or update their information on the most current gerontological topics.
(Seminar 3 hours.)

692. Gerontology Directed Project (1-4)
Prerequisite: GERN 697.
Students will acquire experiential skills under the guidance of a faculty advisor and supervisor/mentor at an approved project site. Students will identify problems, design and assess a project or conduct research. Results will be presented in a thesis style report.
Letter grade only (A-F).

696. Research Methods (3)
Prerequisite: Upper division course in statistics.
Methodological approaches to contemporary research issues in Family and Consumer Sciences. Course focuses on the design, development, and implementation of a formal research-designed project.
Letter grade only (A-F). (Seminar 3 hours.) Same course as FCS 696. Not open for credit to students with credit in FCS 696.

697. Directed Research (1-3)
Prerequisite: Advancement to candidacy, GERN 500-level courses in area of study and GERN 696.
Independent investigation of research problems under the direction of a faculty member.
Letter grade only (A-F).

698. Thesis (1-4)
Prerequisite: GERN 697, advancement to candidacy.
Planning, preparation and completion of a thesis under supervision of a faculty member. Approval of thesis committee.
Letter grade only (A-F).
GLOBAL LOGISTICS
College of Liberal Arts
Department of Economics

Director: Joseph P. Magaddino
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Telephone: (562) 985-5061
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Faculty: Mahyar Amouzegar, Omer Beni, Sai Kulkarni, Joseph P. Magaddino, Waco L. Martin, Kristen A. Monaco, Kheirab Moshirvaziri, Soji S. C. Steinmetz, Steve Yamanik
Graduate Advisor/Associate Director: Kristen A. Monaco

Career Possibilities
International Trade Economist • Labor Specialist • Market Research Analyst • Transportation Planner • Aerial Photo Interpreter • Industrial Development Specialist • GIS Specialist • Environmental Impact Report Writer (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Master of Arts in Global Logistics (code ECONMA02)

Prerequisites
1. A bachelor's degree with a grade-point average of 2.75 or better. A student whose overall grade-point average is less than 2.75, but who possesses a strong employment history in supply chain management or logistics or who possesses a recent record of academic excellence by completion of certificate or other coursework, may be admitted by special action of the Admissions Committee.
2. Students are required to submit: a completed application form, transcripts of all undergraduate and graduate coursework; two letters of recommendation from members of the academic profession under whom the applicant studied or from individuals in positions of leadership with whom the applicant worked; and a statement of the applicant's interest in pursuing a career in global logistics.

Advancement to Candidacy
Satisfy the general requirements of the University for advancement to candidacy.

Requirements
Completion of a minimum of 30 units beyond the bachelor's degree and graduate coursework as follows:
1. Core requirements (16 units): Satisfactory completion of ECON 500, 555; GLG 540, 560, 570; and MGMT 500.
2. Satisfactory completion of at least one course in each of the following four emphases (11-12 units):
   A. Supply Chain Logistics (GLG 556 or MGMT 541);
   B. Coordination, Negotiation and Conflict Resolution Emphasis (HRM 654);
   C. Advanced Topics in Logistics (GLG 530 or IS 695 or CEECS 590); and
   D. Seminar in Global Logistics (ECON 666 or GLG 660).
3. Completion of GLG 655 (3 units).

Global Logistics Courses (GLG)

530. Introduction to Optimization Methods in Transportation (3)
Prerequisites: ECON 500.
Optimization methods applied to transportation problems. Introduction to optimization, simple calculus-based function optimization, linear programming, simplex method and computer based solution of linear programming problems. Introduction to network flow, dynamic programming. Practical considerations for large problems; optimal and near optimal solutions. Letter grade only (A-F).

540. Benefit-Cost Analysis for Logistics (2)
Prerequisites: consent of instructor.
This course introduces students to benefit-cost analysis. Includes discussion of private costs and benefits, social costs and benefits, and project analysis. Letter grade only (A-F).

556. Economics of Logistics Management (3)
Prerequisites: M.A.G.L. core (ECON 500 and MGMT 500).
Analysis and design of domestic and international logistics systems. Topics include: transportation, warehousing, inventory control, materials management, systems design and organization.
Not open for credit to students with credit in ECON 556. Letter grade only (A-F).

560. Research Methods for Global Logistics (3)
Prerequisites: M.A.G.L. Core (ECON 500 and MGMT 500).
Applications of research methods to topics in logistics. Topics include: developing a research question, performing a literature review, data collection, and statistical analysis.
Letter grade only (A-F).

570. International Trade and Finance for Logistics (2)
Prerequisites: consent of instructor.
This course examines theories of trade, tariffs, customs, foreign exchange market and international financial institutions.
Letter grade only (A-F).

655. Seminar in Global Logistics (3)
Prerequisites: Completion of at least 27 units in the M.A.G.L. program.
A capstone seminar in global logistics. Students will complete a major research project that allows them to integrate their knowledge of global logistics. Each student will submit a research paper and will be required to make an oral presentation of their research.
Not open for credit to students with credit in ECON 655. Letter grade only (A-F).

690. Advanced Topics in Global Logistics (1-3 units)
Prerequisites: Consent of instructor.
Topics of current interest in global logistics selected for intensive study.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in the same semester.

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HEALTH AND HUMAN SERVICES,
COLLEGE OF

Acting Dean: Dixie Greenwell
Interim Associate Dean: Sue Stanley
Associate Dean for Research: Gail Farmer
Director of Development: Carolyn Harris
Administrative Services Manager: Douglas Butler
Administrative Analyst: Germaine Hernandez
Facilities Coordinator: Derysa O'Connell
Director of Technology: Mike Norew
College Office: Engineering Technology Building (ET), Room 200
Telephone/FAX: (562) 985-4194 / (562) 985-7581
Website: www.csulb.edu/colleges/chhs/

Introduction
The College of Health and Human Services prepares students for careers in health, wellness, teacher preparation, and social and consumer services. Our accredited graduate and undergraduate programs offer state-of-the-art curriculum though which departments/programs provide optimal learning opportunities in the classroom, in the research laboratory, and in the community. Students are challenged to think creatively and analytically, apply concepts to real world issues, and meet the challenge of fostering quality of life for all.

Departments
Communicative Disorders
Criminal Justice
Family and Consumer Sciences
Health Science
Kinesiology
Nursing
Physical Therapy
Professional Studies
Graduate Center for Public Policy and Administration
Recreation and Leisure Studies
Social Work

Programs
Gerontology
Health Care Administration
Military Science (Army ROTC)
Radiation Therapy

Centers
Bureau of Governmental Research and Services
Center for Career Studies
Center for Criminal Justice Research and Training
Center for Disability Studies and Scholarship
Center for Health Care Innovation
Center for Innovative Foodservices Technology
Center for Latino Community Health
Center for Successful Aging
Child and Family Center
Child Welfare Training Center

Joint Studies Institute
Kinesiotherapy Clinic
Movement Science Laboratories
Physical Therapy Assessment Center
Senior University

Goals
The College of Health and Human Services' mission is to assist students in discovering the excitement of lifelong learning based on student performance, educating students so that they can achieve their personal and professional goals, and connecting students to careers through internships, practica, and field experiences. Specific college goals include:

- Diversity of faculty and students
- Outstanding academic programs and cutting-edge research
- Adequate resources and facilities to support academic programs, research, and services
- Academic, professional and personal student success
- Alumni involvement in college programs, activities, and initiatives

Degrees Offered
Bachelor of Arts:
Communicative Disorders
Family and Consumer Sciences
Kinesiology
Recreation
Social Work

Bachelor of Science:
Criminal Justice
Dietetics and Food Administration
Health Care Administration
Health Science
Kinesiology
Nursing
Occupational Studies

Master of Arts:
Communicative Disorders
Family and Consumer Sciences
Kinesiology
Occupational Studies

Master of Science:
Criminal Justice
Emergency Services Administration
Gerontology
Health Care Administration
Health Science
Kinesiology
Nursing
Nursing / Public Health (concurrent degree)
Nursing / Health Care Administration (concurrent degree)
Nutritional Science
Recreation Administration

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Master of Physical Therapy  
Master of Public Administration  
Master of Public Health: Community Health Education  
Master of Social Work  

Certifications Offered  
- Administration of Campus Recreation and Student Service Programs  
- Administration of Outdoor Recreation Resources  
- Administration of Volunteer Services  
- Food-Service Systems Administration  
- Gerontology  
- Health Care Administration  
- Health Services (School Nursing) Credential  
- Kinesiotherapy  
- Leisure Counseling (graduate)  
- Nurse Practitioner (graduate)  
- Physical Therapy Intern (graduate)  
- Public Management Analysis (graduate)  
- Public Sector Employer-Employee Relations and Personnel Management (graduate)  
- Public Sector Financial Management (graduate)  
- Therapeutic Recreation  
- Transportation Policy and Planning (graduate)  
- Urban Executive Management (graduate)  
- Wilderness Studies  

Credential Programs  
Single subject credential programs are offered in Family and Consumer Sciences, Health Science, and Kinesiology/Physical Education. Students who plan to teach these subjects in the secondary schools are strongly advised to complete the Single Subject credential as early as possible in their studies, so that they fulfill subject matter preparation requirements while completing an undergraduate major. Designated subject credential programs in Adult and Vocational Education are offered in Professional Studies. Services credentials are offered in Communicative Disorders (Clinical Rehabilitation), Nursing (Health Service/School Health), and Social Work (Pupil Personnel – Child Welfare and Attendance).  

College Facilities  
The College of Health and Human Services is characterized by perhaps the greatest diversity of programs in the University. The eleven departments, four programs, and twelve research centers are housed within twelve buildings on campus. During the period 1992-94, the primary facilities received $21,000,000 worth of renovation, including the addition of new equipment in laboratories. As a result, students now have access to state-of-the-art classrooms, laboratories, and clinics with equipment matching that of business/industry. As a student, for example, you could visit our Communicative Disorders Speech and Hearing Clinic, Nursing Simulation Lab, or Physical Therapy Labs and Clinic. You could participate in a discussion on the importance of recreation in your life and the lives of others in a Recreation and Leisure Studies course; or a discussion of diet and nutritional needs in Family and Consumer Sciences; or a seminar on AIDS awareness in the Health Science Department; or a seminar on improvement of the quality of life for all people in the Social Work Department. You may choose to swim in our Olympic-size pool or be tested in the underwater weight tank, while enrolled in a Kinesiology class. The Department of Criminal Justice may walk you through the forensic investigation of a crime. Public Policy and Administration courses will offer you the opportunity to apply new knowledge, skills, and leadership techniques to the solution of public problems; while Professional Studies could provide you with the competencies requisite for successful employment in secondary schools, community colleges, and adult programs.  

As the second largest of the University’s seven colleges, Health and Human Services is comprised of over two-thirds laboratory facilities which accommodate its many laboratory-intensive programs. These programs combine theory with exciting practical application in the campus laboratories, as well as off-campus facilities through field work and internships.  

Professional Accreditation  
Programs in the College have been accredited by the following state and national accrediting agencies: American Association of Colleges of Nursing, American Association of Family and Consumer Sciences, American Dietetic Association, American Physical Therapy Association, American Public Works Association (APWA), American Speech Language and Hearing Association, Association of University Programs in Health Administration, California Commission for Teacher Credentialing, California Council on Parks and Recreation, California State Board of Registered Nursing, California Teaching Commission, Commission on Accreditation of Allied Health Education Programs, Council on Education for Public Health, Council on Social Work Education, National Association for the Education of Young Children, National Association of Schools of Public Affairs and Administration (NASPAA), National Council for Accreditation of Teacher Education, National Recreation and Park Association Council on Accreditation, Western Institute of Nursing.  

The College maintains active involvement in the following organizations:  
- Special Interest Clubs:  
  - Anchors, Army ROTC Association, Army ROTC Rangers (AROTC), California Nursing Student Association, Child and Family Associated Students (CAFAS, Family and Consumer Sciences), Criminal Justice Student Association, Fitness Club, Foodservice and Hotel Management Association (Family and Consumer Sciences), Health Care Administration Forum, Health Science Graduate Student Association, Kinesiology and Physical Education Majors Club, National Student Speech-Language-Hearing Association (Communicative Disorders), Peer Health Educators, Pershing Rifles (AROTC), Physical Therapy Student Association, Public Administration Student Association (PASA, Public Policy and Administration), Recreation and Leisure Studies Alumni Association (RALSSA), Recreation Society (Recreation and Leisure Studies), Social Dance Club, Consumer Affairs Student Association (Family and Consumer Sciences), Sports Medicine
Club (Kinesiology), Student Affiliates of the American Kinesiology Association (Kinesiology), Student Chapter of American Association of Family and Consumer Sciences, Student Dietetic Association (Family and Consumer Sciences), Student Food Science Society (Family and Consumer Sciences), Students Active in Community Health (Family and Consumer Sciences), Students in Fashion (Family and Consumer Sciences).

Professional and Honors Organizations
Alpha Phi Sigma (Criminal Justice), American College of Healthcare Executives, California Association for Health, Epsilon Pi Tau (Professional Studies), Eta Sigma Delta (Hospitality Foodservice and Hotel Management, Family and Consumer Sciences), Eta Sigma Gamma (Health Sciences), Kappa Omicron Nu (Family and Consumer Sciences), Omicron Tau Theta (Professional Studies), Phi Epsilon Kappa (Kinesiology), Pi Alpha Alpha (Public Policy and Administration), Recreation and Dance (CAHF/PERD), Sigma Phi Omego (National Academic and Professional Society in Gerontology), Sigma Theta Tau (Beta Eta Chapter, Nursing).

College and Departmental Organizations
Asian Pacific Islanders Committee (Social Work), Associated Students of Social Work, California Nursing Student Association, Danham/Cleveland Committee (Social Work), College of Health and Human Services Student Council, Gay, Lesbian, Transsexual, Transgender Committee (Social Work), Latino Student Network Committee (Social Work), National Association of Social Work Unit, Social Work Alumni Association.

Courses (HHS)

LOWER DIVISION

100. Skills for Living (3)
Development of skills necessary for achieving success as a student in any HHS major and ultimately as a professional. Additionally, HHS 100 is intended to improve student awareness of health and human services professions, career paths and disciplines.
Letter grade only (A-F). (Lecture/discussion, 3 hours.) Team taught by College of Health and Human Services Faculty.

210. Introduction to Physical Therapy (3)
Corequisite: HHS 100.
Introduction and orientation to rehabilitation with special emphasis on physical therapy. Includes essentials for choosing between rehabilitation professions and preparation for admission to a professional physical therapy educational program.
Letter grade only (A-F). (Lecture/discussion, 3 hours.)

UPPER DIVISION

374. Professional Practice I: Professional Interactions (3)
Prerequisites: Consent of Instructor
Self-awareness of how personality, learning preferences, and personal values affect professional interactions. Includes effective communication, conflict resolution, and eliciting patient values and goals. Also, communicating with patients who have experienced disability, sexual dysfunction, or issues with coping or dying.
Letter grade only (A-F). Lecture/Discussion 3 hours.

401. Applied Anatomy I (3)
Prerequisite: BIOL 208, or equivalent.
Advanced study of structure and function of neuromusculoskeletal systems, with emphasis on surface contour, myology and joint structure and neurovascular supply. Regional emphasis includes upper extremity, head, neck and thorax. Includes dissection laboratory and provided materials.
Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

402. Applied Anatomy II (3)
Prerequisites: BIOL 208, or equivalent, HHS 401.
Continuation of HHS 401, with emphasis on normal anatomy of lower extremities, pelvis, and abdominal region.
Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

403. Tissue Mechanics and Aging (3)
Prerequisites: HHS 401, BIOL 341 and consent of instructor.
Advanced study of tissue (bone, muscle, dense fibrous connective tissue, cartilage, nerve) mechanics and pathomechanics including use, abuse, and aging with application to joint mechanics and therapeutic procedures.
Letter grade only (A-F). (Lecture/discussion 3 hours.)

460. Neuroanatomy (4)
Prerequisites: HHS 401, BIOL 341 Corequisite: HHS 402
Investigation of human neuroanatomy with emphasis on the structure and function of the central nervous system (CNS), cranial nerves, and their connecting neural pathways relative to human function and movement. Neuroanatomical and vascular lesions will be discussed and correlated to common clinical conditions. Emphasis is on applying neuroanatomy for differential diagnosis.
Letter grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours.)

471. Pathology (3)
Prerequisite: BIOL 206; Corequisite: BIOL 341.
Advanced study of abnormal function as result of disease. Includes general pathology and selected pathologies encompassing cardiovascular, pulmonary, musculoskeletal, peripheral and central nervous system, and integumentary systems.
Letter grade only (A-F). (Lecture/discussion 3 hours.)

497. Independent Studies (1-3)
Prerequisites: Consent of Instructor, and for human dissection, one quarter introductory anatomy course, HHS 401 and 402.
Independent projects in any area of physical therapy. Human dissection is available as a special study.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
HEALTH CARE ADMINISTRATION
College of Health and Human Services

Program Director: Tony Siray
Department Office: Engineering Technology Building (ETec.), Room 101
Telephone: (562) 988-5694
Faculty: Janice Frates, Brenda Freshman, Grace Reynolds, Tony Siray, Kevin Makitte
Administrative Assistant: Deby McGill

Career Possibilities
Provider Relations Director • Clinical Administrator • Financial Analyst • Director of Managed Care • Director of Nursing • Medical Facilities Section Director • Nursing Home Administrator • Medical Records Administrator • Social Welfare Administrator • Emergency Medical Services Coordinator • Public Health Director • Community Organization Director (For more information, see www.careers.csulb.edu.) Various entry-level trainee positions in the health care industry are available for graduates regardless of academic discipline.

Introduction
The Health Care Administration program has four major objectives: (1) to provide course work and related experience in order to prepare administrators, skilled in the application of organizational and managerial techniques, for the health care system; (2) to provide continuing education for health administrators in practice as well as others in administrative and leadership positions in the management and the delivery of health services; (3) to consult and to participate in community service activities which complement the instructional and research functions of the faculty and provide appropriate learning experiences for students; and (4) to conduct studies in the administration and operation of the health care delivery system which will contribute to development of faculty teaching abilities and overall professional growth.

The program is designed for the professional administrator or those who wish to become administrators within health care. Five programs are offered:
1. Master of Science in Health Care Administration
2. Bachelor of Science in Health Care Administration
3. Master of Science in Nursing/Master of Science in Health Care Administration
4. Master of Science in Health Care Administration - Accelerated Program
5. Certificate in Health Care Administration

The schedule of graduate and undergraduate course offerings is in the regular Schedule of Classes.

Undergraduate Programs

Bachelor of Science in Health Care Administration (code HCA_BS01)
(120 units)

Admission Requirements
Prerequisites
1. All students must complete a minimum of 13 semester units or the equivalent in prerequisite preparatory course for the major: ACCT 201, ECON 101 or 300, SOC 260 (or equivalent) and BIOL 200 (or equivalent). These courses may be taken after admission to the Program. Computer proficiency in word processing, spreadsheet, database and presentation software is expected. Business calculus (MATH 115) is recommended.
2. An overall grade point average of 2.0 or higher is required for entrance into the program. A minimum grade of "C" is required for each prerequisite course.

Graduation Requirements
1. Complete the requirements for General Education
2. Complete the prerequisite courses.
4. Upper Division (required elective courses): A minimum of 9 additional units from the following: HCA 320, 422, 451, 452, 470I and 471.
5. Complete electives as needed, totaling 120 semester units
6. Fulfill the Graduation Writing Assessment Requirement (GWAR)
7. Each major course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrollment in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses for which it is not a prerequisite with approval of the Undergraduate Advisor.

Graduate Programs

Master of Science in Health Care Administration (code HCA_MS01)
The goal of the M.S. in Health Care Administration program is to prepare individuals to enter administrative positions in hospitals and ambulatory care centers, managed care, long-term care, and mental health settings as well as in multi-institutional system central offices, governmental health agencies, and other health related organizations. Students completing the M.S. in Health
Care Administration will achieve the following objectives: (1) Demonstrate knowledge of the U.S. health care system and fundamental issues affecting the administration of health care services, (2) Demonstrate organizational and managerial skills essential to administrative positions in health care services. (3) Demonstrate specialized knowledge and skills in a variety of functional areas in health care administration, including financial management, marketing, job analysis, compensation management, or public policy analysis. (4) Use ethical principles within administrative positions of responsibility in health care services, and (5) Demonstrate the ability to conduct studies in the organization, financing, administration, and operation of health care delivery systems. The program is designed for persons with a variety of undergraduate experiences who give evidence of interest and potential success in health care management and/or research.

Admission Requirements

Each applicant should request that a copy of all college transcripts and GMAT scores be sent to the graduate advisor, Health Care Administration Program, in addition to original transcripts required by the Office of Admissions and Records. In addition, a current resume should be sent to the Program along with three letters of recommendation.

Admission Criteria

1. Baccalaureate degree from an accredited institution
2. Baccalaureate degree with a minimum of 9 units of course work to include: accounting, economics, and introductory statistics
3. An applicant must have an overall undergraduate grade point average of 3.0 or better. Those applicants with less than 3.0, but with acceptable evidence of professional potential shown through recent academic performance and experiential background, may be admitted by special action of the Program Graduate Committee
4. Interview with member of faculty or preceptor may be required
5. A current and complete resume including references
6. Submission of scores on recent Graduate Management Admission Test (GMAT)
7. Statement of Purpose
8. Three letters of recommendation.

Prerequisites

The following courses or their equivalent:
1. ACCT 201
2. ECON 101 or 300
3. Introductory Statistics.

Students should contact the Program director for a determination of deficiencies and required remediation.

Graduation Requirements

1. Completion of a minimum 45 units graduate level course work.
3. Completion of any two of the following elective courses: HCA 536, 537, 538, 539, 552 or 580.

Advancement to Candidacy

Students will be instructed to apply for advancement to candidacy after:
1. Completion of 6 units of core course work that applies to the degree with an average grade of "B" or better,
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR), and
3. Approval of Program Director.

Accelerated Program (HCA_MS01E1)

The Master in Health Care Administration Accelerated Program (MSHCA-AP) is designed to prepare working professionals for administrative positions in health care organizations which requires a minimum three years of work experience and combines onlines and weekend courses. The MSHCA-AP program requires 45 credit hours consisting of 15 core courses. The program offers foundation courses early and more advanced healthcare specific courses later in the program.

Accelerated Education Model

YEAR I

FIRST Quarter-Fall
Orientation - No Credit
1. HCA 503 Health Care Economics
2. HCA 505 Organization and Systems of Health Care
SECOND Quarter-Winter
3. HCA 502 The Health Care System
4. HSC 500 Principles of Epidemiology
THIRD Quarter-Spring
5. HCA 524 Advanced Legal and Ethical Aspects of Health Care
6. HCA 515 Advanced Financial Management in Health Care
FOURTH Quarter-Summer
7. HCA 535 Quantitative Methods for Health Administration
8. HCA 510 Human Resources Management in Health Care

YEAR II

FIRST Quarter-Fall
9. HCA 530 Strategic Planning and Marketing in Health Care
10. HCA 517 Advanced Healthcare Information Systems Management
SECOND Quarter-Winter
11. HCA 537 Managed Care
12. HCA 550 Continuous Quality Improvement in Health Services
THIRD Quarter-Spring
13. HCA 698A Project Part I
14. HCA 530 Hospital Management
FOURTH Quarter-Summer
15. HCA 698B Project Part II

Certificate in Health Care Administration
(code HCA_CT01)

The Certificate Program in Health Care Administration is comparable to a minor of 18 semester units and, with prerequisite course work, may require up to 24 semester units for completion. Components of the program include
the forms of organization and operation of health care systems, human resources management, leadership and development, financial management, and marketing. The Certificate may be combined with major programs from a variety of fields including, but not limited to, behavioral and natural sciences, humanities, health professions, business and public administration, and social work and is conferred as a post-baccalaureate certificate (or concurrently with the BS/BA). The courses taken for the certificate (with a grade of "B" or better) may apply toward the MS program at the discretion of the Program Director.

Health care administrators are usually prepared at the masters' degree level for job entry into upper management. There is, however, increased emphasis to prepare health care professionals to function as managers at other levels as well. Increasingly, physicians are also seeking preparation in the elements of management. Those diverse groups use management skills in the health services and related fields. These include hospitals, nursing homes, health departments, health maintenance organizations, health planning and regulatory agencies, health management and review companies, group medical practices, health insurance firms, pharmaceutical and medical supply companies.

Admission Requirements

1. Admission to the University
2. A bachelor's or advanced degree with transcripts (conferred or expected)
3. Consultation with the Program Director
4. A minimum of 18 units is required and may include:
   HCA 312, 341*, 353*, 402, 410 or the equivalent. At the graduate level HCA 502, 505, 510, 515, 530 or equivalent courses are considered for the Certificate Program.
   * Prerequisite: ACC 201
   + Prerequisite: ECON 101
Course substitutions may be made at the consent of the Director.

Master of Science in Nursing/Master of Science in Health Care Administration (code NRSSMCH)

The Department of Nursing and Health Care Administration Programs offer a concurrent Master of Science in Nursing and Master of Science in Health Care Administration dual degree available to qualified students who desire advanced preparation in the areas of nursing and health care administration with a practice focus as Advanced Practice Nurses in administration. The concurrent program leading to both degrees represents the core accreditation requirements of each degree. Coursework is integrated between the two programs each semester in order to provide an intense learning experience.

The philosophy of graduate nurse education is that the practice of nursing is constantly changing as health needs and health delivery systems are altered. Integral to nursing is an ability to work effectively and cooperatively with other disciplines. The joint Master of Science in Health Care Administration and the Master of Science in Nursing provides the opportunity for students to specialize as advanced practice nurses with emphasis in administration and increasing competence in designing, implementing, and evaluating programs in preparation for serving in various health organizations. An important career path for advanced practice nurses is as nurse executive in the healthcare segment of the health care industry including entrepreneur activities. Courses are interdependent and have been structured to provide clinical depth in the areas of nursing and administration.

Each applicant should request that a copy of official transcript of all college course work be sent to the Nursing Department Graduate Advisor and to the Office of Admissions.

Admission Requirements

1. Bachelor's degree in nursing or currently enrolled in accelerated RN to Masters program. Those nurses with Baccalaureate degrees in health related fields may be conditionally admitted
2. Current license to practice as a registered nurse in California
3. Admission to graduate standing at the University
4. An upper division or graduate course in biostatistics (HSC 403 or ED P 419)
5. Public Health Nurse Certificate, or eligibility for certificate in California
6. An overall GPA of 3.0 or better; an upper division nursing GPA of 3.0 or better and a science GPA of 3.0 or better. Students who fall below those averages will be evaluated on an individual basis
7. Submission of quantitative and verbal scores from the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT)
8. Three letters of recommendation from persons with whom the applicant has worked and who has direct knowledge of the applicant's qualifications
9. A separate personal statement of applicant's reasons for pursuing this field of study and comments about interests and experiences which are germane to career objectives
10. Current professional resume describing the applicant's relevant experience.

Advancement to Candidacy

A joint committee, consisting of Nursing and Health Care Administration faculty involved in the program, will review files and make a determination to advance the candidate to graduate status. Student criteria for advancement are as follows:
1. Satisfy the general University requirements for advancement to candidacy in Nursing and Health Care Administration:
A. fulfill the Graduation Writing Assessment Requirement (GWAR), and
B. have at least a 3.0 grade point average for all course work attempted as a graduate student
2. Joint approval by the Department of Nursing and Health Care Administration and the Associate Dean in the College of Health and Human Services.

Requirements for Completion

1. A minimum of 57 units of approved Nursing and Health Care Administration upper division and graduate level courses including:

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2. An overall GPA of 3.0 or better in all courses
3. Directed project or a thesis
4. "Graduate degrees obtained previously may be accepted toward meeting a portion of the unit requirements of the concurrent MSN/MSHCA degree program
5. If a student after enrolling in the concurrent MSN/MSHCA program returns to a single degree program, all requirements for the single degree program must be met; 60% of units must be earned in residence.

Courses (HCA)

LOWER DIVISION

353. Marketing for Health Services Organizations (3)
Prerequisite: ECON 101 or 300. Corequisite: HCA 202 or HCA 402.
Development of marketing strategies and analyses in a health care setting. Design of services to include pricing, communication, distribution channels, and client motivation and services.
Letter grade only (A-F).

402. The Health Care System (3)
Overview and developmental summary of the American health care system and its driving forces: Organizational forms, financing mechanisms, principal industry stakeholders; professional groups and workforce issues; public health and government.
(Lecture)

410. Health Management and Organization (3)
Prerequisite/Corequisite: HCA 402.
Introduction to health care management practices and concepts. Planning, decision-making, influencing, controlling, effecting change. Effects of environment, technology and human behavior on organizational design.
Letter grade only (A-F). (Lecture)

416. Management and Information Systems (3)
Prerequisite/Corequisite: HCA 402.
Evaluation of concepts, analysis and design of management information systems; management decision models, strategies for implementing system changes.
Letter grade only (A-F). (Lecture)

4221. Global Issues in Health Services (3)
Completion of the GE Foundation, one or more Exploration courses and upper division standing. Examination of factors that impact global health: analysis of health care delivery systems and the governmental, economic, social and political forces that influence them.
Letter grade only (A-F). (Lecture)

439/539. Management Challenges in Long Term Care (3)
Prerequisite/Corequisite: HCA 402 or 502.
Functions and essential skills to manage LTC organizations and facilities: institutional arrangements; Public/Community relations; workforce management; marketing; reimbursement.
Letter grade only (A-F). (Lecture)

450. Quality Assurance in Health Care (3)
Prerequisites: HCA 402, and 485.
Basic elements of quality improvement and organizational responsibilities related to quality assurance. Data analysis for quality improvement, clinical practice guidelines, and future of healthcare quality.
Letter grade only (A-F). (Lecture)

451. Economics of Health (3)
Prerequisites: ECON 101 or 300.
Microeconomic principles and their application to healthcare such as opportunity cost, production of good health, demand for medical care, production and cost theory and cost-benefit analysis. Behavior of health care markets and organizations.
Letter grade only (A-F). (Lecture)

452/552. Medical Group Practice Management (3) F
Prerequisite/Corequisite: HCA 202, 402 or 502; and HCA 450 or 550, and HCA 341 or 516.
Fundamental operational responsibilities of medical group administration today, with emphasis on managed care delivery systems.
Letter grade only (A-F). (Lecture)

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465. Analysis and Evaluation of Health Care Services (3)
Prerequisite or Corequisite: HCA 202 or 402 and Prerequisite: PSY 110 or SOC 250 or equivalent.
Techniques of analysis and evaluation applied to health services with respect to organizing, staffing, financing and utilization.
Emphasis on the analytic process, program evaluation, and report of findings.
Letter grade only (A-F).

470L. Latinas/Latinos: Health Status and Health Care Access (3)
Prerequisites: Completion of GE Foundation, one or more Exploration Courses, upper division standing.
Interdisciplinary exploration of policies, epidemiologic, cultural factors influencing disease within Latino subpopulations, their impact upon efficient, equitable service delivery.
Letter grade only (A-F). Same course as CHLS 470L. Not open for credit to students with credit in CHLS 470L. (Lecture)

471. Geographic Information Science (GIS) for Health (3)
Prerequisite: GEOG 200 or SOC 250 or equivalent.
An introduction to the fundamentals of Geographic Information Science and Systems (GIS) including concepts and skills in spatial reasoning and spatial thinking. Explores GIS in spatial query, problem analysis and decision support using health-related applications. Lecture/Discussion and Laboratory (2 hours lecture, 2 hours computer laboratory)
Letter grade only (A-F). Same course as GEOG 471.

480/580. Internship In Health Care Administration (3)
Prerequisites: HCA 341, 402, 465 and HSC 150.
Minimum 120 hours of structured work experience in a health care organization, under direct supervision of a preceptor-employee.
Letter grade only (A-F).

481. Internship and Career Development in Health Care Administration (3)
Prerequisite/Corequisite: HCA 480
A minimum of 120 hours of structured work experience in a health care organization, under the direct supervision of a preceptor-employee. Career development planning, job search and networking.
Letter grade only (A-F).

490. Special Topics in Health Care Administration (1-3)
Topics of special interest in health care administration selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study of special topics under supervision of a faculty member.
May be repeated to a maximum of 6 units with approval of Health Care Administration Program Director. Letter grade only (A-F).

GRADUATE LEVEL

502. The Health Care System (3)
Overview, developmental summary of the American health care system and its driving forces. Major elements of the healthcare system: today’s major health policy issues in a historical, economic and political context.
Letter grade only (A-F). (Lecture)

503. Health Care Economics (3)
Prerequisites: ECON 101 or 300
Application of economic principles to health care, the flow of funds through the health care system including physicians, hospitals, managed care, nursing home and pharmaceutical firms. Third party payment, asymmetric information, and behavior health care systems.
Letter grade only (A-F).

505. Organization and Systems of Health Care (3)
Analysis of operational activities and managerial functions essential to the health care delivery system, with emphasis on management and leadership influence on developing effective systems of care within various institutional arrangements.
Letter grade only (A-F). (Lecture)

510. Human Resources Management in Health Care (3)
Management of human resources in the health care system including human resource planning and staffing, training and development, performance appraisal, job design and analysis, and compensation.
Letter grade only (A-F).

515. Advanced Financial Management In Health Care (3)
Prerequisite: ACCT 201 or 500.
Letter grade only (A-F). (Lecture)

517. Advanced Healthcare Information Systems Management (3)
Prerequisite: HCA 410, 502, 550 or consent of instructor.
Breadth overview of healthcare information systems, close examination of business needs for the information technology (IT) to deliver cost-effective quality health services.
Letter grade only (A-F). (Discussion)

524. Advanced Legal and Ethical Aspects of Health Administration (3)
Federal and state regulation of health care facilities, employees, patients and programs. Ethical and legal perspectives on malpractice, liability, contracts, informed consent, end of life decisions, reproductive health, medical records, confidentiality and required disclosures.
Letter grade only (A-F). (Lecture)

530. Strategic Planning and Marketing in Health Care (3)
Prerequisite/Corequisite: HCA 502.
Strategic planning based on analysis of analyses of secondary quantitative and qualitative data to study changes in technological, social, political, regulatory, and competitive aspects of the health care market.
Letter grade only (A-F).

535. Quantitative Methods for Health Administration (3)
Prerequisite: Statistics.
Application of quantitative and operations research techniques to problems in health care settings. Exposure to decision theory and control systems. Problem solving experiences in resource allocation, procedures, scheduling, forecasting, measurement and cybernetic control.
Letter grade only (A-F).

536. Hospital Management (3)
Prerequisite: HCA 555.
Analysis of hospitals by broad function and specific departments through cases, simulations and visits to develop familiarity with internal operations of acute care hospitals and skills in solving hospital operational problems.
(Lecture)
537. Managed Care (3)
Prerequisite: HCA 402 or 502.
Orientation to the organization and administration of health maintenance organizations, preferred provider organizations and related enterprises. Legal and regulatory issues, marketing, utilization management, premium rating systems, information systems, case/ disease management.
(Seminar 3 hours)

538. Long Term Care Management (3)
Prerequisite: HCA 402 or 502
Overview of long term care services and facilities. Analysis of forces influencing development of long term care in the US; specific organizational aspects affecting outcomes of services.
Letter grade only (A-F). (Lecture)

530/430. Management Challenges in Long Term Care (3)
Prerequisites/Corequisites: HCA 402 or 502.
Functions and essential skills to manage LTC organizations and facilities: institutional arrangements; patient/family/community relations; workforce management; marketing; reimbursement.
Letter grade only (A-F). (Lecture)

550. Continuous Quality Improvement in Health Services (3)
Prerequisites: HCA 502
Administrative and professional issues to assure quality in health care. Historical beginnings; metrics and indicators; state-of-the-art practices; voluntary and governmental monitoring.
Letter grade only (A-F). (Lecture)

552/452. Medical Group Practice Management (3) F
Prerequisites/Corequisites: HCA 202, 402 or 502; and HCA 450 or 550; and HCA 541 or 515.
Fundamental operational responsibilities of medical group administration today, with emphasis on managed care delivery systems.
Letter grade only (A-F). (Lecture)

580/480. Internship in Health Care Administration (3)
Prerequisites: HCA 582, 585, 510, 515, 524, 530, 535, 550.
Minimum 120 hours of structured work experience in a health care organization, under direct supervision of a preceptor-employee. Graduate students study and report on institution's organizational structure, philosophy, problems and personnel.
May be repeated to a maximum of six units in different semesters, which includes previously earned credit in HCA 685. Letter grade only (A-F).

590. Special Topics (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in the various fields of Health Administration and Health Services Management selected for special presentation. Topics will be announced in the Schedule of Classes each semester. Courses may be repeated to a maximum of 9 units with different topics in different semesters. Letter grade only (A-F).

599. Directed Studies (1-3) F,S
Directed study of a special topic to be taken under supervised independent study. May be repeated for a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).

695. Integrative Seminar: Critical Analysis of the Health Care System (3) S
Prerequisites/Corequisites: HCA 580, 585.
Systematic, ecological approach to an advanced, critical analysis of U.S. health care system. Emphasis on public policy determinants that have influenced system development, relevant problems, issues.
Letter grade only (A-F).

698A. Project Part I (3)
Prerequisites: Completion of all 500-level courses and advancement to candidacy, or consent of instructor.
To provide students with the skills and techniques of research to design and carry out their own investigation of a health care or health services project. Project is a two-semester course sequence.
Letter grade only (A-F).

698B. Project Part II (3)
Prerequisites: Completion of all HCA 500-level courses, HCA 698A, and consent of the instructor.
Project is a two-semester course sequence; the purpose of HCA 698B is for students to execute and complete the research project proposed and designed in 698A.
Letter grade only (A-F).
HEALTH SCIENCE
College of Health and Human Services

Department Chair: Robert H. Friis
Department Office: Health and Human Services (HHS) 2, Room 115
Telephone: (562) 985-4057

Faculty: Veronica Acosta-Degnon, Stephanie L. Elenon, Dale W. Evans (Emeritus), Gail Farlow, Mohammed R. Forouzesh, Robert H. Friis, Sarahh Gunatilake, Javier Lopez-Zeltina, Gina Piane, Britt K. Ritchie

Liaison, CSULB/VAP Joint Studies Institute: Robert H. Friis
Director, Graduate Studies: Mohammed R. Forouzesh
Director, Undergraduate Studies: Sally Champkin
Director, Radiation Therapy: Stephanie Eshmon
Clinical Coordinator, Radiation Therapy: Cheryl Brody
Coordinator, Single Subject Credential: Sally Champkin
Administrative Support Coordinator: Mark Vele

Career Possibilities

Health Science: Health Educator • Government Inspector • California Middle/High School Health Teacher • Researcher/Evaluator • Health Education Specialist • Public Health Educator • Patient Educator • Radiation Therapist

Radiation Therapy: Staff Therapists • Simulator Therapists • Dosimetrists • Educators • Senior Therapists • Department Managers • Temporary Staffing Therapists • Consultants • Equipment Sales and Marketing (For more information, see www.careers.csulb.edu)

Introduction

The Department offers undergraduate and graduate study in Health Education, and an undergraduate option in Radiation Therapy. For program information, students should contact the department office for referral to one of the faculty advisors: Director of Undergraduate Studies, Director of Radiation Therapy, Director of Graduate Studies or Single Subject Credential Advisor.

All Health Sciences majors and minors are responsible for requirements specified in the University Catalog. Students should meet periodically with either the Director of Undergraduate Studies, the Director of Radiation Therapy, or the Director of Graduate Studies. Faculty advisors will discuss and review the student’s academic program, program requirements and monitor academic progress. Students also have responsibility for keeping track of unit totals required for graduation and insuring that these requirements are met.

Program in Health Education

Health education programs help participants enhance health, prevent disease and disability, as well as help improve the well-being of people in organizations, schools, businesses, and communities. The program focuses on environmental influences, which include the cultural and societal context in which health behavior occurs; it also emphasizes processes for developing and changing individual attitudes and behaviors toward health.

The focus of health education is on planned change. Individuals are encouraged to take responsibility for their own health and to assume responsibility for the health of their families and communities.

As our society continues to change, health problems are redefined. Future health advances will not only come from new technology, but also as the result of community, group, and individual actions. These factors will impact education, lifestyle, environment, and the organization and delivery of health services.

Brochures that describe each of the programs are available at the Health Science Department office.

Courses are designed to satisfy Health Science requirements for:

1. General education.
2. The baccalaureate degree major.
3. Single Subject Teaching Credential in Health Science.
4. Master of Science Degree with a Major in Health Science.
5. Master of Public Health Degree in Community Health Education.
6. Master of Science in Nursing/Master in Public Health

Undergraduate Programs

Bachelor of Science in Health Science

The basic University requirements for graduation with a B.S. Degree in Health Science consist of:

1. completion of all general education requirements,
2. completion of all courses identified on the Program Planner for the Option selected, with no grade lower than a "C" for each listed course or approved substitute,
3. completion of a minimum of 120 units, at least 40 units of which must be upper division. Upper division courses are numbered 300 to 499.

Major Core Requirements

All Health Science majors must complete the required core. The core of the Health Science program contains five areas of competence: Statistics, Program Development, Professionalism, Health Services Organization and Health Promotion. All majors must complete at least one course from each competency area. Courses must be selected in consultation with an advisor.

Option in Radiation Therapy

(code HSC_BS01) (135 units)

Admission Under Impaction

To be eligible for admission to the major in the Health Science Option in Radiation Therapy Technology, applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have completed the following prerequisite courses, each with a grade of "C" or better: BIOL 200, 207, and 208; MIGR 101; HSC 200;
MATH 119A; PHYS 100A and B; I S 233; and ENGL 102 or the equivalents of these courses. Applicants must have completed a 40-hour observation period in a department of radiation therapy and an observation packet. Applicants must submit a supplemental application to the department by February 1 for the fall semester. The application must be accompanied by: 3 letters of recommendation at least one from a radiation therapist at the observation site noted below, and the others from either employers or instructors, a written personal statement, a summary of academic and work history, and documentation of the availability of transportation to clinical sites for the required internship. Applicants must participate in an interview with the Radiation Therapy Career Assessment Committee. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission on a space-available basis according to the faculty’s judgment of the applicants ability to succeed in the program.

To apply to the Radiation Therapy Option, students must meet all of the requirements listed above.

Admission Under Impaction for Continuing Students

Students who indicate a Radiation Therapy Option major when they enter as freshmen will be assigned a pre-Radiation Therapy major code. Acceptance into the pre-major by the university does not imply or assure subsequent acceptance into the Option by the Department. Students who are not accepted into the Option cannot continue as pre-Radiation Therapy majors.

Prior to admission to the Radiation Therapy Option, continuing students must:
1. Complete all of the basic criteria listed above
2. Complete HSC 200 Orientation to Radiation Therapy with a grade of "C" or better.
3. Submit Option Application by February 1.

Admission Under Impaction for Transfer Students

Students must be eligible for admission to the university as transfer students and must apply for admission to the university no later than November 30 for admission the following fall. Students who are not admitted to the Option will not be admitted to the university unless they have listed a second choice of major on the application form.

Prior to admission to the Radiation Therapy Option, transfer students must:
1. Complete all of the basic criteria listed above
2. Schedule an appointment with the Radiation Therapy Program Director or Clinical Coordinator
3. Attend a group Radiation Therapy Orientation session
4. Submit by February 1 the Option application.

The Radiation Therapy Option is designed for individuals who wish to pursue a professional program leading to membership in the healthcare team using ionizing radiation in the treatment of malignant and some benign diseases. The Option is competency-based and integrates didactic courses and clinical experience to prepare entry level radiation therapists to become integral partners in the health care team and contributing members of the profession. On a daily basis, the registered radiation therapist is involved in:

2. Providing psychological and emotional support to patients who are dealing with the stress of their illness.
3. Providing education to the patient and their family about their disease and all aspects of treatment.
4. Observing patient progress and recognizing medical problems that require a physician’s attention.
5. Constructing devices to aid in treatment positioning, beam modification, and treatment planning.
6. Calculation of doses and use of treatment planning computers to determine dose distributions.

Successful completion of the Option requirements allows the student eligibility to apply for licensure examinations at the state and national levels to practice as a registered radiation therapist.

This program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3162, phone 312-796-5300 and the State of California, Department of Health Services, Radiologic Health Branch.

Required Radiation Therapy Option Courses

Students will take the following courses in sequence:

All Radiation Therapy courses must be completed with a grade of "C" or better. If a student earns a lower grade, the student must repeat the course and earn an acceptable grade before advancing to the next level of courses.

Option in Community Health Education (code HSC_B502) (120 units)

The Community Health Education option is designed for persons whose occupational objective is to serve as a community health educator with an official, voluntary, or corporate health agency.

Lower Division: BIOL 200, 205, and either CHEM 100 or 111A; MICR 101; an additional anatomy and physiology, BIOL or MICR course approved by department advisor; Spanish (3 units) or language approved by Department Advisor.

Upper Division: HSC 301, 400, 401, 402, 403, 405, 421, 430, 435, 440, 455; Three courses selected from the following: HSC 420, 422, 423, 425, 427, 429, 490; one course selected from the following: NUTR 132; one course selected from the following: PSY 351 or SOC 335; one course selected from the following: SOC 320, 330, 452, 464; and one course selected from the following: CCMM 334, 335.

Option in School Health Education (code HSC_B503) (120 units)

The School Health Option is designed for persons who wish to become health science teachers in California middle/high schools. The program is approved by the California Commission on Teacher Credentialing and meets

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subject matter competence requirements for the Health Science Preliminary Single Subject Credential (code 130).

In addition to meeting the subject matter competence requirement for the Preliminary Single Subject Credential in Health Science, prospective Health teachers are also required to complete an additional 35 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching as an undergraduate. Courses may also be completed as post-baccalaureate student.

Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website (www.cod.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. A student may enroll in the credential program prerequisite course, EDSS 306D, after completing 80% of the required lower division, upper division, and subject matter courses. Prospective students should consult the department’s Health Science Single Subject Advisor early to plan their program.

The Health Science Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

Lower Division

BIOL 200, 205, 260; MCR 101; CHEM 100 or 111A; approved anatomy and physiology, BIOL or MCR course; PSY 100, Spanish (3 unit minimum) or language equivalent approved by HSC department advisor.

Upper Division

COMM 335 or approved upper division COMM course, EDP 302 or HDEV 307 or PSY 361, ETEC 444, NUTR 132. Select one course from: ANTH 329, CDFS 319, HSC 420, PSY 378, SOC 320, 423.

Subject Matter Courses: HSC 210, 281, 401, 403, 421, 422, 423, 425, 427, 430, 435, 440

Option in Health Care (code HSC_BS04)

120 units

The Option in Health Care is designed for those individuals who have received certification and/or license from an approved allied health/health care program and desire a Bachelor of Science degree. The focus of this option is the development of professional skills for people whose goal is: (a) providing service, or (b) instructing in the health care setting.

Admission Requirements

Once admitted to the University, students are required to complete the following prior to acceptance into the Health Care Option.

1. Obtain certification and/or license from an allied health/health care program from an institution that has been accredited by either a Committee on Post-secondary Accreditation (COPA) approved accreditation agency or the Committee on Allied Health Education and Accreditation (CAHAE). Those individuals who do not have appropriate certification will be counseled by the Department of Health Science regarding where to obtain an appropriate accredited program, and, when possible, concurrent enrollment may be utilized.

2. Earn a minimum GPA of 2.0.

Lower Division: Completion of general education requirements to include: ENGL 100; one of the following: ANTH 120, SOC 100 or PSY 100; and minimum of 12 units in Natural Sciences, approved by department advisor equivalent to: BIOL 200, 205, MCR 101 and an additional anatomy and physiology, BIOL or MCR course approved by faculty advisor; either CHEM 100 or 111A.

Upper Division: (39 units): Required Core: 15 units, (three units from each area); courses must be selected in consultation with an option advisor:

A. Statistics: H SC 403 or ED P 410;
B. Program Development: H SC 430 and H CA 320, or H SC 450 and 316;
C. Professionalism: H SC 451 or HCA 340;
D. Health Organization: H SC 401 or 4201;
E. Health Promotion: H SC 435 or HCA 402;

Additional Coursework

H SC 401 and one of the following: HDEV 320 or H SC 405; one of the following: ANTH 353, SOC 462; one of the following: POSC 328, or ECON 300.

An emphasis in either:

A. Providing Services (12 units): HCA 410, 465; one of the following: ED P 434B, H SC 421 or 492A/B and one of the following: ANTH 319, GERN 400, 482, or NRSG 482; or
B. Instructing in the Health Care Setting (12 units): HCA 410, 465 and one of the following: H SC 493/B (3 units), or ED P 432, and one of the following: ED P 305, 434B or HSC 421.

Minor in Health Science

code HSC (UM01)

Twenty-four units as follows: H SC 301, 401, 430, 435, 440, and three courses from: H SC 400, 4201, 421, 422, 423, 425, 427.

Graduate Programs

Single Subject Credential in Health Science

code 130

The Single Subject Teaching Credential in Health Science prepares one to teach health science in California middle/high schools. Requirements include: a) Bachelor of Science Degree in Health Science with a completion of the school health option from a program approved by the California Commission on Teacher Credentialing or BS/BA and a passing score on the CSET in Health Science b) GPA of 2.75 on the last 60 semester units c) Professional education courses beyond the B.S. which begin with EDSS 3000; Introduction to Teaching Health Science d) student teaching in health science. See the Health Science Single Subject Advisor.

The Health Science Subject Matter Program is being revised to meet new state standards when the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current catalog copy.
For additional information about teaching in California middle/high schools, see the Single Subject Teacher Education Program.

Graduate Program in Health Education

In order to be admitted to the graduate program for study toward a degree, a prospective candidate must apply both to this department and the University. Contact the Director of Graduate Studies for current requirements.

Master of Science in Health Science (code HSC_MS01)
The Master of Science program is designed to provide students with:
1. Intensive study of health education concepts, theories, and processes.
2. Introduction to public health concepts and issues.
3. Research methodology appropriate to field preparation in a specific health topic.

The graduate student is also prepared for a leadership role in a school or community setting and for admission to doctoral programs at other colleges and universities. Admitted graduate students must contact the Director of Graduate Studies for advisement early in their first semester of enrollment in order to develop an approved program of study.

Admission Requirements
Applicants must apply both to the Department and the University. Applications are available from the Office of Enrollment Services.

1. Each applicant must present a copy of official transcript(s) of all work be sent to the Graduate Director in the Health Science Department in addition to the transcripts required by the Office of Enrollment Services.
2. A bachelor's degree with a major in health education, which articulates with the course requirements for the same degree at California State University, Long Beach; or a bachelor's degree in a related discipline in a minimum of 21 units of upper division course work comparable to that required of the Health Science major at the University; or a bachelor's degree in a related discipline and willingness to make up any deficiencies in prerequisite Health Science courses. Prerequisites for all courses carrying graduate credit must have been completed within seven years of the semester of enrollment. If any prerequisite is outdated, it may be repeated or credit obtained by (1) written examination on the subject matter or (2) providing documented evidence of competency in the subject area.
3. An overall undergraduate GPA of at least 3.0. Students with less than a 3.0 GPA on the last 80 units of undergraduate units attempted, but who show promise in all other aspects, may be given special consideration after petitioning for conditional admission into the program through the Director of Graduate Studies.
4. Acceptance by the University as a student with graduate standing.
5. A maximum of 9 units of approved graduate work at the post-baccalaureate level may be credited to a student's program requirements upon Departmental acceptance to the graduate program.
6. Submission of the analytic, quantitative and verbal scores from the Graduate Record Examination (GRE) and a copy of the CSU graduate application to the Department.
7. Three letters of recommendation from persons with whom the candidate has worked and who have direct knowledge of the applicant's qualifications and potential as a community health educator.
8. A separate personal statement of reasons for pursuing this field of study and comments about interest and experience that are germane to career objectives. Submit a personal resume reflecting the applicant's education and relevant work experience.

Advancement to Candidacy
1. Satisfy the general University requirements for advancement to candidacy:
   A. Fulfill the Graduation Writing Assessment Requirement (GWAR);
   B. Maintain at least a 3.0 average for all course work attempted as a graduate student;
   C. Complete HSC 500, 503, and 570;
2. Approval by the Director of Graduate Studies and the Associate Dean of Academic Programs of the College of Health and Human Services.

Requirements for Completion of the Master of Science
1. A minimum of 43 units of approved upper division and graduate courses including:
   A. 21 units of Health Science courses, which include HCA 502, HSC 500, 503, 570, 581, 696;
   B. 18 units of electives in a specialty field;
   C. 4 units of HSC 698;

Master of Public Health
Option in Community Health Education (code HSC_MH01)
The Master of Public Health in Community Health provides an opportunity for students to specialize in health education and health promotion within the general context of Public Health, to increase competence in designing, implementing, and evaluating social behavior changes in program planning in preparation for serving in various health agencies, prepare for teaching at college and university levels and for administrative positions in public and private health agencies.

Admission Requirements
Applicants must apply both to the Department and the University. Applications are available from the Department office.

1. Each applicant must present a copy of official transcript(s) of all work be sent to the Director of Graduate Studies (in addition to the copies required by the Office of Enrollment Services).
2. A bachelor's degree with a major in health education, which articulates with the course requirements for the same degree at California State University, Long Beach; or a bachelor's degree in a related discipline with a minimum of 21 units of upper division course work comparable to those required of the Health Science major.

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Master of Science in Nursing/Master of Public Health (code NRSGMN01)

The Departments of Nursing and Health Science offer a concurrent Master of Science and Master of Public Health degree available to qualified students who desire advanced preparation in the areas of public health nursing with a practice focus on primary prevention, illness prevention, and health promotion. The concurrent program leading to both degrees represents the core accreditation requirements of each degree. Coursework is integrated between the two Departments in each semester in order to provide an intensive learning experience.

The philosophy of graduate nurse education is that the practice of nursing is constantly changing as health needs and health delivery systems are altered. Integral to nursing is an ability to work effectively and cooperatively with other disciplines and community services to promote health. The Master of Science and Master of Public Health (Health Education Option) provides the opportunity for students to specialize in advanced practice public health nursing within the general context of the Masters of Public Health, to increase competence in designing, implementing, and evaluating behavior change programs in preparation for serving in various health agencies. The focal point in this curriculum is the Nursing Process, Epidemiological Process Model, and Population Based Theory complemented by behavioral science concepts. Courses are interdependent and have been structured to provide clinical depth in the area of advanced practice public health nursing.

Each applicant should request a copy of official transcript of all college course work be sent to the Department Graduate Advisor of Nursing in addition to the copies required by the Office of Admissions and Records.

Admission Requirements
1. Bachelor's degree in nursing or currently enrolled in an accelerated RN to Masters program. Those nurses with baccalaureate degrees in health related fields may be conditionally admitted.
2. Current license to practice as a registered nurse in California.
3. Admission to graduate standing at the University.
4. An upper division or graduate course in biostatistics (HSC 403 or Ed. Stat 419) and an ethics course (HSC 451).
5. Public Health Nurse Certificate, or eligibility for certificate in California.
6. An overall GPA of 3.0 or better; an upper division nursing GPA of 3.0 or better and a science GPA of 3.0 or better. Students who fail below these averages will be evaluated on an individual basis.
7. Submission of quantitative and verbal scores from the Graduate Record Examination (GRE).
8. Three letters of recommendation from persons with whom the applicant has worked and who has direct knowledge of the applicant's professional and academic potential as a health educator.
9. A separate personal statement of applicant's reasons for pursuing this field of study and comments about interests and experiences, which are germane to career objectives.
10. Current professional resume describing the applicant's relevant experience.

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Advancement to Candidacy
A joint committee, consisting of Nursing and Health Science faculty involved in the program, will review files and make determination to advance a candidate to graduate status.

Student Criteria for Advancement
1. Satisfy the general University requirements for advancement to candidacy in Nursing and Health Science.
   A. fulfill the Graduation Writing Assessment Requirement (GWAR)
   B. have at least a 3.0 grade point average for all course work attempted as a graduate student.
2. Joint approval by the Department of Nursing and Health Science, and the Associate Dean for Academic Programs of the College of Health and Human Services.

Requirements
1. A minimum of 57 units of approved Nursing and Health Science upper division and graduate level courses including: HSC 500 or MICR 429; HSC 503 or BIOL 565; HSC 508, 528, 535, 570, 581, 620, 625, NRSG 660B, 660A, 680A, 680C, NRSG 680AL, 680BL, 680CL or HSC 626 (in lieu of one 3 unit 680L); NURS 696 or HSC 696; NRSG 695 or HSC 697 or NURS 698
2. An overall GPA of 3.0 or better in all courses
3. Comprehensive written examination or directed project or a thesis
4. Graduate degrees obtained previously will be accepted toward meeting the unit requirements of the concurrent MSN/MPH degree program
5. If a student after entering the concurrent MSN/MPH program returns to a single degree program, all requirements for the single degree program must be met.
6. Transfer units will not be accepted toward the concurrent MSN/MPH program.

Courses (HSC)

LOWER DIVISION

150. Medical Terminology (1)
Development of medical vocabulary emphasizing the building of terms utilizing prefixes, combining forms and suffixes. Includes medical terms for application in the interpretation of medical records.
(Lecture-discussion 1 hour.) Letter grade only (A-F).

200. Orientation to Radiation Therapy (3)
Introduction to the profession of Radiation therapy and an overview of the Option requirements. The role of Radiation therapy in cancer treatment and the role Radiation Therapist in patient care, treatment, simulation, dosimetry and follow-up. 40 hours of clinical fieldwork required. Letter grade only (A-F).

210. Contemporary Health Problems (3)
Prerequisites: Completion of the 13 unit GE foundation requirements. Development of modern health knowledge, attitudes and behavior includes family life, sex education, drug use and abuse, mental health, medical quackery and health frauds, common diseases such as sexually transmitted diseases, heart disease and cancer.

UPPER DIVISION

301. Orientation to Health Science (3)
Must be taken prior to HSC 401 and 430.
Overview of philosophy of Health Science Department Orientation to degree requirements, career opportunities, and theoretical and practical issues of health education as a profession.

310. Radiation Therapy Patient Care I (2)
Prerequisites: Admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Topics covered include the role of the radiation therapist, communication, self-care, basic patient care, patient assessment, infection control, medical emergencies, basic pharmacology and medication administration.
Letter grade only (A-F).

311. Radiation Therapy Patient Care II (2)
Prerequisites: Admission to the Radiation Therapy Option Professional Preparation of consent of instructor, HSC 310.
Topics covered include psychosocial aspects of cancer diagnosis, death and dying, patient education and intervention for treatment related sequelae. Additionally, local, state and national cancer resources are covered.
Letter grade only (A-F).

315. Seminar in Radiation Therapy I (2)
Prerequisites: Concurrent enrollment in HSC 492A, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Introduction to the clinical arena requiring application of previous didactic material. Focus is on the patient, consultation, simulation, treatment, dosimetry and case study review.
(Lecture-discussion 2 hrs)

316. Seminar in Radiation Therapy II (2)
Prerequisites: Concurrent enrollment in HSC 492B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Application of previous didactic material. Comprehensive analysis of case studies in the clinical setting with emphasis on treatment rationale and options.
(Lecture-discussion 2 hours)

320. Radiologic Techniques and Imaging Modalities (3)
Prerequisites: Admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Concepts and processes involved in producing a radiograph will be covered. Additionally, other diagnostic imaging modalities such as CT, MRI, Ultrasound will be covered.
(Lecture-discussion 2 hr) Limited grade only (A-F).

330. Topographic Anatomy (2)
Prerequisites: BIOL 201, 208 admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examination of external anatomic landmarks to internal anatomy. Additionally, cross sectional anatomy is covered with interpretation of port films and other diagnostic films.
(Lecture-discussion 2 hrs) Limited grade only (A-F).

340. Clinical Radiation Therapy (3)
Prerequisites: HSC 209, 320 admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Rationales of radiation therapy treatments; construction of immobilization devices, contours, beam modifiers and positioning aids. Examination of simulation procedures, contrast media, treatment positioning and monitoring.
(Lecture-discussion 2 hrs, Lab 2 hrs) Limited grade only (A-F).

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341. Clinical Radiation Therapy II (1)
Prerequisite: HSC 340, concurrent enrollment in HSC 445A, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examination of site specific techniques to treat cancers of the skin, head and neck, lung, esophagus, breast, gastrointestinal, kidney and bladder.
Letter grade only (A-F). (Lecture-discussion, 1 hour)

342. Clinical Radiation Therapy III (1)
Prerequisite: HSC 341, concurrent enrollment in HSC 445B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examination of site specific techniques to treat cancers of the reproductive systems, CNS, eye, endocrine, bone, soft tissues, blood and lymphatics. Pediatric cancer treatments will be included.
Letter grade only (A-F). (Lecture-discussion 1 hour)

400. Principles of Epidemiology (3)
Prerequisite: HSC 301 and 403.
Application of epidemiologic procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents, and gastroenteric problems.
(Lecture 3 hours)

401. Community Health Education (3)
Prerequisite: HSC 301 and HSC 430.
Concepts of community health education with emphasis on community organization; application of these concepts to health education activities of official, voluntary and professional health agencies.

402. Applied Concepts of Community Health Education (3)
Prerequisite: HSC 430, 431, 432.
Identification and application of concepts unique to community health education; includes examination of theoretical foundations, marketing and promotion techniques, and application of health education strategies.

403. Community Health Statistics (3)
Prerequisite: G.L. math and SOC 290 or PSY 100 or equivalent. Representative topics are descriptive statistics, sample designs, control charts, and variability. Statistical tools for inferential analyses include hypothesis testing and parameter estimation.
(Lecture 2 hours, Activity 2 hours)

405. Health Education Program Evaluation and Measurement (3)
Prerequisite: HSC 403 or equivalent.
Research design, standardized measurements, data collection, analysis, and reporting are used to develop evaluation skills to assess program outcomes. Program activities promoting behavior change in communities, organizations, groups and individuals are evaluated.
(Discussion 3 hours)

411A. Health Science for Elementary Teachers (3)
Prerequisite: Upper-division standing, Corequisite: Current CPR Certification required.
Contemporary teaching of health education in elementary schools emphasizes coordinated school health, children's health, drug abuse, violence, community and human ecology. Based upon California Health Framework, meets state credential requirements.
Not open for credit to health science majors or minors.

411B. Health Science for Secondary Teachers (3)
Prerequisite: Upper-division standing, Corequisite: Current CPR Certification required.
Contemporary teaching of health education in secondary schools emphasizes coordinated school health, drug abuse, violence, community and human ecology. Based upon California Health Framework, meets state credential requirements.
Not open for credit to health science majors or minors.

415. Radiation Biology (2)
Prerequisite: BIOL 207, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Biological effects of radiation at the cellular, organ and whole body levels. Radiobiological effectiveness, linear energy transfer, oxygen enhancement ratio, sensitizers and protectors will be covered.
(Lecture-discussion 2 hours). Letter grade only (A-F).

420L. International Health (3)
Prerequisite: Completion of the G.E. Foundation, one or more Explorations courses, and upper-division standing.
Analysis of current health problems in the world; examination of contributing social, psychological, physical, legal and cultural factors; international programs for the improvement of world health; structure and functions of world health agencies and organizations.
Course fee may be required.

421. Health Behavior (3)
Survey of contemporary research on the health effects of human behavior. Special emphasis is given to current issues of health behavior, decision-making in contemporary society, values clarification and contemporary theories of behavior change (e.g., health belief model).

422. Environmental Health (3)
Examination of reciprocal relationship existing between man and his environment, with the emphasis directed toward the health related consequences of man's actions in the environment.

423. Consumer Health (3)
Effective selection of health information, products and services; medical quackery and fraudulent health practices; laws and agencies protecting the consumer; health care delivery systems; and influence of corporate control on the consumer movement in contemporary society.

425L. Human Sexuality and Sex Education (3)
Prerequisite: Completion of the G.E. Foundation, one or more Explorations courses, and upper-division standing. Recommended: PSY 100.
Biological, sociological, and psychological aspects of human sexuality, the communication of sexual information, the implementation, content and evaluation of family life and sex education in the schools.

427. Drugs and Health (3)
Prerequisite: Upper-division standing.
Study of psychoactive drugs with primary attention to alcohol, cocaine, caffeine, tobacco, hallucinogens, narcotics and other drugs; examination of trends, philosophical issues and behavioral practices associated with drug use and dependence. Includes physiological psycho-social, legal, historical, philosophical and political aspects; treatment-rehabilitation activities and programs; and drug abuse prevention education.
Not open for credit to students with credit in HSC 327.

429. Stress Reduction (3)
Recognition of stress and its causes. Physical and mental symptoms of stress. Influences which reduce or create stress; methods of coping.

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430. School Health Program (3)
Prerequisite: H SC 301.
Intensive analysis of the philosophy, organization and legal aspects of the school health program. Includes school and community coordination for a team approach to health education for the school age individual.

435.J535. Health Promotion and Risk Reduction (3)
Prerequisites: H SC 421 or consent of instructor.
Health promotion/risk reduction program content, development and implementation for use in corporate, hospital and public settings. Intended primarily for Health Science majors.
(Discussion 3 hours)

440. Applied Concepts of Health Science (4)
Prerequisite: H SC 430.
Identification and application of the concepts and modes of inquiry utilized in the discipline of health sciences; development of appropriate curriculum based upon an analysis of individual, school and community needs and interests.
(Lecture 3 hours; laboratory 3 hours)

445A. Oncologic Pathology I (3)
Prerequisites: BIOI 207, 208, HSC 150, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examination of Oncologic pathology with emphasis on malignant neoplasia; specific attention given to cancers of the skin, head and neck, lung, esophagus, breast, gastrointestinal tract, kidney and bladder.
(Lecture-discussion 3 hours) Letter grade only (A-F).

445B. Oncologic Pathology II (3)
Prerequisites: HSC 445A, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Continuing study of Oncologic pathology with specific attention given to cancers of the reproductive system, central nervous system, eye, endocrine, major digestive glands, bone, soft tissue, blood, lymphatic system and pediatric solid tumors.
(Lecture-discussion 3 hours) Letter grade only (A-F).

451. Ethics Professionalism in Health Care (3)
Examination of professionalism and bioethics, and the process of making moral decisions; ethical issues; professional oaths and codes of ethics; health care ethics and the law.

455. Quality Management in Radiation Therapy (1)
Prerequisites: HSC 470B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Study of the principles of quality management with an emphasis on specific quality assurance tests in radiation therapy. Students will be given the opportunity to either perform or observe a demonstration of each quality assurance test.
(Letter grade only (A-F).

465. Radiation Therapy in the Health Care Industry (3)
Prerequisites: Admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examination of radiation therapy in the current health care market. Focus on various operational and budgetary issues, hospital and governmental accreditation, types of insurance and reimbursement.
(Letter grade only (A-F); Lecture-discussion 3 hours)

470A. Clinical Radiation Physics I (3)
Prerequisites: PHYS 100A, B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Nature and description of the structure of matter and energy; interactions of photons and gamma radiation; instrumentation and measurement of ionizing radiation; beam quality and dose; percentage depth dose, tissue air ratios, treatment dose calculations.
(Lecture-discussion 2 hours, Laboratory 2 hours). Letter grade only (A-F).

470B. Clinical Radiation Physics II (3)
Prerequisites: HSC 470A, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
A continuation of the study of radiation physics with emphasis on electron beams, brachytherapy, intensity modulated radiotherapy, conformal radiotherapy and other emerging technologies. Radiation safety and protection also included.
(Lecture-discussion 2 hours, Laboratory 2 hours). Letter grade only (A-F).

475. Treatment Planning – Dosimetry (2)
Prerequisites: HSC 470A, B, concurrent enrollment in HSC 475B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Examines the effects of treatment distance, field weighting, beam modifiers, irregular fields, tissue inhomogeneities and tissue compensation on dose. Dose calculations for external photon and electron beams.
(Lecture-discussion 2 hours). Letter grade only (A-F).

475L. Treatment Planning – Dosimetry Laboratory (1)
Prerequisites: Concurrent enrollment in HSC 475B, admission to the Radiation Therapy Option Professional Preparation of consent of instructor.
Practical experience with calculation of treatment dose given a variety of clinical situations. Calculations to determine dose to critical structures or methods used to lower or avoid dose. Use of a treatment planning computer for complex field arrangements.
(Laboratory 3 hours) Letter grade only (A-F).

480. Advanced Radiation Therapy (2)
Prerequisites: Must be in final semester of Radiation Therapy Option Professional Preparation.
Synthesis of previous didactic and clinical information; examination of current and future professional issues, technological advances, ethics, professional organizations and continuing education.
(Lecture-discussion 2 hours) Letter grade only (A-F).

485. Internship in Health Education (3)
Prerequisites: H SC 401 and consent of instructor.
Supervised observation and field experience in community health education as conducted by official, voluntary and professional health organizations.

490. Independent Studies in Health Science (1-3)
Prerequisite: Consent of instructor.
Students conduct independent library or laboratory research under the supervision of a faculty member and write a report of the investigation. May be repeated to a maximum of 6 units.

492A. Internship in Health Care (1-7)
Prerequisite: Consent of instructor.
Supervised observation and field experience in community health and medical facilities. Student responsible for successful completion of clinical objectives applicable to area of observation.
Letter grade only (A-F).
492B. Internship in Health Care (1-6)
Prerequisites: Consent of instructor.
Supervised observation and field experience in community health and medical facilities. Student responsible for successful completion of all objectives applicable to area of observation.
Lettor grade only (A-F).

GRADUATE LEVEL

500. Principles of Epidemiology (3)
Prerequisites: HSC 501 and HSC 403.
Application of epidemiological procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents, and genetic processes.
Letter grade only (A-F). (Lecture 3 hours.)

503. Advanced Community Health Statistics (3)
Prerequisite: HSC 403 or equivalent.
Analysis of quantitative health related data. Topics include mean and percentage comparisons, multiple regression, logistic regression, and survival analysis. Use of computers is required.
Letter grade only (A-F). (Discussion 3 hours)

508. Administrative Relationships in Health Education Programs (3)
Prerequisite: Undergraduate major in Health Science or related field.
Introduction to administrative theory, investigation of administrative responsibilities and functions implicit in school health or other health education programs.
Letter grade only (A-F).

529. Advanced Environmental Health (3)
Prerequisite: HSC 422 or consent of instructor.
Organization and methods for promoting human health by controlling environmental factors.
Letter grade only (A-F).

535/435. Health Promotion and Risk Reduction (3)
Prerequisites: HSC 421 or consent of instructor.
Health promotion/risk reduction program content, development and implementation for use in corporate, hospital, and public settings. Intended primarily for Health Science majors.
Letter grade only (A-F). (Discussion 3 hours)

570. Theoretical Concepts and Issues in Health Science (3)
Identification and analysis of current trends, philosophies and issues in health science.
Letter grade only (A-F).

581. Curriculum Development in Health Education (3)
Prerequisites: HSC 430, 440.
Principles of curriculum development; selection and evaluation of resource materials; theory and practice in measurement in health education.
Letter grade only (A-F).

585. Health Education Internship (1-6)
Prerequisite: Consent of the instructor.
Extended applied experience under guidance of faculty and preceptors in an approved health education practice setting.
Letter grade only (A-F). (480 hours of field placement or the equivalent experience.)

590. Independent Study (1-3)
Independent research conducted under the supervision of a full-time faculty member resulting in a written report of the investigation.
Lettor grade only (A-F). May be repeated to a maximum of 6 units with different topics.

624. Seminar in Community Analysis and Program Planning (3)
Prerequisites: HSC 525 or consent of instructor.
Process and techniques of community analysis and program planning.
Letter grade only (A-F).

625. Advanced Community Health Education (3)
Prerequisites: HSC 401 and 405; or consent of instructor.
Advanced study of educational and related theory applicable to the conduct of health education programs in community and other settings. Methods of promoting change; role as program and staff director and evaluation techniques.
Letter grade only (A-F).

626. Integrative Seminar in Public Health (3)
Prerequisites: HSC 570, advancement to candidacy.
Summative critical analysis of current methodologies, research, and practices in public health and health education in particular. Synthesis of coursework, internship, and other relevant experiences in the graduate program.
Letter grade only (A-F).

696. Research Methods (3)
Prerequisites: Undergraduate major in Health Science or related field; undergraduate course in statistics.
Introduction to research methodology in the area of Health Science.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: Advancement to candidacy.
Independent investigation of research problems in health education.
Lettor grade only (A-F).

698. Thesis (1-3)
Prerequisites: HSC 696, advancement to candidacy. Planning, preparation and completion of an approved thesis.
HISTORY
College of Liberal Arts

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Department Office: Faculty Offices 2 (FO2), Room 106
Telephone: (562) 985-4431

Faculty: Dorothy Abrahamse (Emeritus), Houri Berberian, Stephen L. Berk (Emeritus), David A. Brezina (Emeritus), Emily Brezina, Paul V. Black (Emeritus), Jeff Blufinger, Alber D. Burke, Augustus Cerillo, Jr. (Emeritus), Patricia A. Cleary, Keith E. Collins (Emeritus), Kenneth R. Curts, Jane David, Edward A. Gosselin (Emeritus), Albert F. Gunnis (Emeritus), David C. Hood, Ali Ilgum, Andrew Jenks, Troy R. Johnson, Arnold P. Karmansky, Marie Kellhor, Margaret Kuo, Arlene Luzarowitz, Guoxing Li, Eileen Luh, Brett Muzelle, Caitlin Murdock, Keith I. Polakoff (Emeritus), Gary W. Reichard (Emeritus), Sarah Schrom, Donald R. Schwartz (Emeritus), Lise Sedroz, David Shostler, Sharon L. Sievers (Emeritus), Arnold R. Springer (Emeritus), Jack Stuart (Emeritus), William A. Weber (Emeritus), Nancy L. Quam-Wickham, Richard Wilde (Emeritus), Hugh Wilford

Advisors:
Undergraduate: Linda Aikana, Caitlin Murdock
Graduate: Houri Berberian

Office Managers: Aimee Casillo, Gris Hernandez

Career Possibilities
Historian • Writer • Editor • Administrators in Historic and Cultural Preservation • Teacher • Museum Curator • Multimedia Specialist • Preservation and Environmental Lawyer • College Instructor • Film Maker • Environmental Review Specialist • Human Resources Manager • Advertising Analyst • Systems Analyst • Insurance Broker • Executive (Some of these, and other careers, require additional education or experience. For more information, see www.csunm.csulb.edu.)

Introduction
Advising in the Department of History is available to all students interested in a major, minor, a teaching credential, or a special major combining History with another discipline. Students are strongly encouraged to see History Department advisors at an early stage in the development of their programs. Undergraduate majors should see History department staff to fill out a work sheet before meeting with the Undergraduate Advisor. Students interested in the M.A. program should contact History department staff for application information. Graduate students should see the Graduate Advisor. Applicants for the Social Science Credential Single Subject Program must see Credential Advisors. All advisors maintain extended hours during the semester and are available at other times by appointment. The Department of History also hosts open advising days in the week prior to each new semester; call the Department for information.

History
History is a discipline at the core of the liberal arts tradition. It seeks to preserve, extend, and reevaluate our study of the past and to connect it with the present. Students who specialize in History are typically those who plan to teach, practice law, or enter government service; however, History students also go into business, librarianship, foundation work, management of local history projects, and fundraising. Some history alumni have become successful writers.

Students contemplating graduate work in History on this campus or elsewhere should get advice early in their undergraduate careers from faculty in their fields of interest and should also give serious consideration to developing proficiency in a foreign language during their undergraduate years.

The History Department awards scholarships and prizes to outstanding undergraduate and graduate students, among which are:
• The Xiaolan Bao Scholarship
• The Douglas McNally Award
• The Stuart Borthwick Award
• The E羚-Heinberger Scholarship
• The Jack Chimski Award
• The Ivy Ahtiqua Scholarship
• The Elizabeth Nelson Award
• The Hardeman Graduate Student Award
• Richard and Louise Wilde Scholarship

For further information about these awards, given annually, students should inquire at the Department office no later than the beginning of the spring semester. Undergraduate and graduate students are eligible for the Department's facilitator program for which they may earn units in the major; see Department staff for applications. Graduate assistantships and researchships are also frequently available to qualified graduate and undergraduate students. The Department also recruits outstanding students for Phi Alpha Theta, the national honor society for History students.

The Department of History offers graduate study leading to the Master of Arts degree. The candidate is responsible for observation of the general requirements stated in this catalog as well as specific departmental requirements listed in the M.A. brochure, available on request from the Department office.

General Education Requirement in United States History
To fulfill State of California requirements, students must take three (3) units of U.S. history. This requirement can be met by HIST 172 or 173. Students who have taken U.S. history at another institution should check with the History Department before enrolling.

Bachelor of Arts in History (code HISTBA01) (120 units)

Requirements

 Majors must take 48 units of history: 0 lower-division and 30 upper-division.
 1. Core: 15 units. All majors must take HIST 301 and 302 with a grade of "C" or better; HIST 499 and one history course that fulfills the gender, race, and ethnicity requirement (from a list of approved courses available from the Undergraduate Advisor). HIST 301 MUST be taken in the first semester of upper-division course work in the major.
HIST 301 is a prerequisite for 302, and both courses are prerequisites for 499.

2. Fields of emphasis: 18 units. All majors have the option of specializing in two or three fields. Option one: two fields of nine units each. Option two: three fields of six units each. The fields are:
   A. Africa and the Middle East
   B. Ancient and Medieval Europe
   C. Asia
   D. Latin America
   E. Modern Europe (Including Britain)
   F. United States
   G. World

3. Breadth: 6 units. Majors must take six units in a field (or fields) of History outside of their fields of emphasis.

4. All majors must develop a portfolio (beginning with HIST 301) reflecting their work in the History major. The portfolio will be evaluated as one of the requirements in the senior seminar, HIST 499. Prerequisites for HIST 499 are completion of HIST 301, 302, and 18 units of upper-division work in the major.

NOTE: History majors are strongly encouraged to include the study of foreign language and literature in their programs. Students working for a single-subject credential in secondary education must consult with the College's secondary education advisor as to the applicable credential major requirements.

Honors in History

Students with a major in history may be admitted to the History Department honors program (option of the University's Honors Program) provided they have:

1. Completed at least 30 semester units of college- or university-level courses, including at least two history courses;
2. A minimum cumulative GPA of 3.3, and a 3.5 in history courses;
3. Submitted to the department honors committee chairperson two letters of recommendation from faculty members;
4. Received admission approval from the departmental honors committee.

Students who have the minimum GPA requirements established by the University Honors Program (3.0 overall and 3.5 in the major, but who do not meet History departmental GPA requirements above may petition the department honors committee for conditional admission to the Department Honors Program.

In order to graduate with Honors in History a student must:

1. Complete all regular requirements for the history major;
2. Complete 3 units in HIST 301;
3. Complete 3 units in HIST 498H: Honors Research;
4. Complete 3 units of HIST 499H: Honors Thesis;
5. Complete 6 units of additional course work chosen in consultation with the Department Honors Advisor; such courses normally will require two analytical papers or a research paper on a honors level of performance;
6. Have at the time of graduation a cumulative GPA of at least 3.3 and a GPA of at least 3.5 in history.

Students admitted to the program must maintain a file in the University Honors Program which will include copies of proposals for 498H and 499H.

Oral History Program

This program, housed in the Department of History, is designed to teach and train history students in the use of materials that focus on largely unwritten sources. History majors, and social science credentials students with a history concentration, are urged to take the one-unit workshop. Students in these workshops learn how to design an oral history project, and to conduct interviews. Workshops are especially helpful for students interested in local history, the history of the family, and communities whose written records have not been included in traditional historical materials.

Minor in History (code HISTUM01)

A minimum of 21 units which must include:

Lower Division: A minimum of six units, which must include a six-unit sequence from the following: HIST 211 and 212, 131 and 132.

Upper Division: A minimum of 12 units, which must include at least six units in each of two areas as defined for the major.

Minor in Jewish Studies (code HISTUM02)

The Minor in Jewish Studies consists of a minimum of 19 units. Jewish Studies encourages undergraduate students to acquire the academic breadth and depth to comprehend the major issues, themes, and concepts of a culture and heritage that has had a distinct impact on world civilization. The interdisciplinary minor consists of courses in a variety of disciplines, including literature, history, religion, geography, Hebrew language, and politics. Students will expand their understanding of the broader dynamics of the Jewish experience through different eras and geographic settings, both in Israel and the Diaspora.

Requirements

1. Required core courses: HEBW 101A, HIST 470, RIST 314;
2. Three units from the following elective courses: CWL 342, HIST 431, RIST 311;
3. Six units from the following elective courses: GEOG 309H, HIST 304, 432, POSC 367, RIST 315.

Minor in Latin American Studies

(code HISTUM03)

This minor offers students majoring in any subject an opportunity to supplement their education focusing on interdisciplinary study of Latin America. The flexible program of study is ideal for students interested either in intellectual enrichment or professional development in their major. Courses used to meet this minor requirement may be counted also, where applicable, toward General Education requirements, and this major or minor requirements of the cooperating departments.

Requirements

1. Requirements for the Latin American Studies minor:
   A. Successful completion of two college intermediate level courses in Spanish, Portuguese or any other language appropriate to student's area of concentration or equivalent fluency as determined by program advisor;
   B. Consultation with program advisor, including formal declaration of minor, and application for graduation.

2. Completion of 21 units distributed as follows:
   A. Core (required of all students): 3 units. Choose either LAS/ HIST/ SOC 161 or SPAN 445.

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B. Electives: 18 additional units from the following courses, selected from at least two disciplines:
*Special Topics and Independent Study courses in the area of Latin American Studies (including Short Term Study Abroad) must be approved by the advisor.

Minor in Middle Eastern Studies (code HISTUM05)

This minor encourages undergraduate students to acquire a broad and interconnected understanding of the dynamics of Middle Eastern societies, cultures, and histories by taking courses in a variety of disciplines including History, Arabic Language, Political Science, Geography, Art History, International Business, and Religious Studies. Expands understanding of major issues, themes, and concepts associated with a complex and diverse region as Middle East.

Requirements

A minimum of 18 units.

Core Required Courses

Minimum twelve (12) units: At least three (3) units must be in History of the Middle East and four (4) units must be in Arabic.*

Elective Requirements

Must take a minimum of six (6) additional units, selected with an advisor, from the following courses without repeating courses from the core:
ARAS 101A, 101B, 201A, 201B, 250; ART 466/565; CWL 104, 402/502; GEOG 399; HIST 393, 394, 416/516, 418/518, 428, 431/531, 432/532; POSC 367; RIST 331, 490**.

Three (3) of these units may be taken from the following courses, which have a global and comparative perspective, without repeating courses from core:
CBA 200; WGS 401; COP 102; RIST 455; HIST 395**.

*Other languages of the Middle East may be substituted with the approval of the Director of the program.

**Only topics courses relevant to the minor will be accepted.

Master of Arts in History (code HISTMA01)

Prerequisites

1. A bachelor's degree in history with an overall 3.0 GPA or higher or
2. A bachelor's degree with 24 units of upper-division courses in history. Those courses must be comparable to those required of a major in history at this University. Deficiencies are determined by the graduate advisor after consultation with the student and after study of transcript records.

Requirements

The Master of Arts in History is a program of 30 minimum units as defined below.
Core Courses required of all students: HIST 501, 590

Options for Field of Study

The fields are Africa and the Middle East, Ancient/Medieval Europe, Asia, Latin America, Modern Europe, United States, World.

Option One

For students pursuing one field of concentration, 18 Units of graduate level coursework (500/600 numbered courses) in the student's field of concentration.
18 units must include: HIST 510 in the field, HIST 510 outside the field: Research Seminar if offered (for example, HIST 611 [ancient/medieval], 631 [Europe], 663 [Latin America], 673 [US], and 682 [East Asia]).

Option Two

For students pursuing two fields of concentration, 9 units of graduate level coursework (500/600 numbered courses) in each field. Nine units must include: two 510s, one in each field: Research Seminar in the field of concentration (for example, HIST 611 [ancient/medieval], 631 [Europe], 663 [Latin American], 673 [US], and 682 [East Asia]).

Electives applicable to all students:

Six units of electives of graduate (500/600) coursework in History or supporting disciplines relating to the student's Field(s) of Concentration. Upon written approval of the Graduate Advisor, students may substitute three to six units of upper-division (300/400) coursework in History or supporting disciplines relating to the student's Field(s) of Concentration. Graduate students who wish to enroll in double-numbered (400/500) courses must take the 500-level course.

All Students

The courses for Special Preparation (595), Directed Study (695), Directed Research (997), and Thesis (998) may be applied to the 18 unit total only with the permission of the graduate advisor. A student may propose a field other than those cited above with the consent of the Graduate advisor and her/his graduate committee.

A reading knowledge of a foreign language may be required, depending upon the candidate's program of study as recommended by her/his graduate committee.

Advancement to Candidacy

Students should see Graduate Advisor to file Advancement to Candidacy after at least 6 units but no more than 15 units of graduate coursework are completed.

Must have taken 501 as well as have passed the Graduation Writing Assessment Requirement (GWAR) or appropriate designated course. The Writing Proficiency Exam (WPE) is administered several times each academic year by the University Testing Office. Must be attempted in the first semester of graduate work and passed by the time of advancement. Exam may be waived if earned a 4.0 or higher on Writing portion of GRE.

Advancement must take place at least two semesters prior to taking Comprehensive Exams or completing the Thesis. Comprehensive Examination Approval Form or Thesis Committee Agreement Form must be filed with department at time of Advancement. At this point, a student must commit to taking exams or writing a thesis. Advancement to Candidacy is a formal contract listing courses student has taken, is taking, and will take. Changes to contract may be made in consultation with Graduate Advisor.

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Culminating Project

Students must take either Comprehensive Exams in one field (two exams) or in two fields, or write a Thesis on one field or incorporating two fields to culminate their Master’s Degree in History.

Comprehensive exams require filing a Comprehensive Examination Approval Form with the department.

Completion of a thesis: a thesis requires filing a Thesis Committee Agreement Form and enrolling in HIST 698 with the thesis advisor for four (4) units.

All candidates for the M.A. degree in history who have selected to write a thesis must demonstrate competency in one foreign language. Exceptions are granted only with the approval of the chair of the graduate student’s committees and the Graduate Advisor.

The language competency requirement may be met in three ways:
1. Through an examination by a faculty member with expertise in the student’s language. The exam will be a translation of about a 500-word text to be completed in two hours; a dictionary is allowed.
2. By taking the equivalent of two full years of university level foreign language courses, with an average GPA of 3.0 in those courses. If the primary concentration is in Ancient/Medieval, a student may also fulfill this requirement by taking one year of Greek and one year of Latin. All course work completed must be within five years of admission to the graduate program.
3. By taking and passing the Educational Testing Service Graduate Foreign Language Exam.

Courses (HIST)

LOWER DIVISION

101. Facts, Evidence and Explanation (3)
Corequisite: ENGL 100.
Explanation of facts, evidence and explanation to explore and develop habits of critical thought using a historical and global perspective. Topics include argument, inductive and deductive reasoning, the relationship of language to logical and theoretical perspectives.
Not open for credit to students with credit in HIST 201.

131. Early Western Civilization (3)
Corequisite: ENGL 100.
History of western civilization from its origins through the 18th century. Stresses society, culture, and political institutions of ancient Near East, classical world, the medieval West, and renaissance and reformation Europe.

132. Modern Western Civilization (3)
Corequisite: ENGL 100.
European society from 16th century to present. Stresses events and phenomena which reshaped political, economic and social structures of the West and their impact throughout the world. Emphasis on intellectual, social and psychological transformation of modern life.

141. Jewish Civilization (3)
Prerequisites/Corequisites: Completion of one GE Foundation course and ENGL 100 or equivalent.
Survey traces diversity and complexity of Jewish traditions from ancient to modern times across different regions, exploring intercultural and assimilationist contacts in Diaspora. Students critically engage with Jewish sources from various eras and regions.

161. Introduction to Latin American Studies (3)
Prerequisite: Completion or concurrent enrollment in ENGL 100. Interdisciplinary overview of history, society, and culture in Latin America – Mexico, Central America, the Caribbean, and South America. Examines political, economic, social, and cultural conditions for conflict, change, and continuity over last five hundred years.
Letter grade only (A-F). Some course as SOC 161 and LAS 161.
Not open for credit to students with credit in SOC 161 and LAS 161.

172. Early United States History (3)
Prerequisite/Corequisite: Completion of one G.E. Foundation course or ENGL 100 or equivalent.
Survey of political, social, economic, and cultural development of the United States from discovery through reconstruction. Focus on the colonial era, establishment of the new nation, societal problems, national growth, disunion, and reconstruction. Material may be covered chronologically or topically.
Not open for credit to students with credit in HIST 162A.

173. Recent United States History (3)
Prerequisite/Corequisite: Completion of one G.E. Foundation course or ENGL 100 or equivalent.
Survey of political, social, economic, intellectual, and cultural development of United States from Reconstruction to present. Focuses on different social groups, movements of people; labor, women’s and minority issues; politics; protest, and war; society and culture.

211. World History: Origins to 1500 (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of pre-modern World History emphasizes interactions between civilizations. Topics include role of universal religions; political, social, and gender structures; economic and demographic development; diffusion of culture and technology via migration, commerce, and imperial expansion.
Not open for credit to students with credit in HIST 111.

212. World Since 1500 (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of modern World History emphasizing global interactions such as economic globalization; demographic, environmental and gender transitions; intellectual, religious and cultural transformations; imperialism and resistance to empire, birth of nations; and historical origins of contemporary world.
Not open for credit to students with credit in HIST 112.

250. Early World Historical Geography (4)
Prerequisites: Open only to Integrated Teacher Education Program (ITEP) students.
Examines emergence and changing nature of urban life, cultural and technological diffusions, and cross-cultural contact and exchange between cultures and civilizations over time. Same as GEOG 250.

290. Special Topics in History (3)
Prerequisite: Completion of GE Foundation requirements.
Topics of current interest in History. Applicability to major requirements will be specified in description of individual topic. Topics announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics in different semesters. Letter grade only (A-F).
### GENERAL
- 301. Methodology of History
- 302. Theory and History
- 401. History for Secondary Social Science Teachers
- 409. Special Topics in History
- 494. Practicum in History
- 495. Colloquium
- 498. Directed Studies
- 499H. Honors Research
- 499F. Senior Seminar
- 499H. Honors Thesis

### INTERDISCIPLINARY COURSES
- 303L. Rebels and Renegades
- 308L. Law and Civilization
- 309L. Men and Masculinity
- 310L. The Greek World
- 312L. Roman World
- 346L. The European Cinema of Communism, Fascism, and Resistance
- 409L. History of Western Scientific Thought
- 407L. Japan and the United States in the 20th Century
- 474L. The History and Culture of American Cities

### ASIAN
- 382A. Imperial China
- 382G. Modern China
- 383A. Japan to 1850
- 383B. Modern Japan
- 384L. Contemporary Japan
- 385L. History of India
- 386L. History of Modern SE Asia: Colonial Era to the Vietnam War
- 388L. Contemporary China
- 405L. Classical Japan
- 406A. Asian Women: East and Northeast Asia
- 406L. Asian Women: South and Southeast Asia
- 407L. Japan and the United States in the 20th Century
- 409L. Early Modern Japan
- 416L. Central Asia and Afghanistan from Mongol Era to WWII
- 418L. Central Asia and Afghanistan, Twentieth Century
- 420L. Chinese Immigration/Emigration in Modern Period
- 467L. Film and Chinese History
- 489L. The Chinese Revolution

### LATIN AMERICAN
- 362L. Colonial Latin America
- 364L. Latin American Nations
- 365L. Brazil
- 366L. Latin American History and Literatur
- 460L. Slavery in Latin America
- 461L. History of Pre-Columbian Mexico
- 462L. Mexico
- 463L. The Caribbean and Central America
- 464L. Latin American Environmental History
- 466L. Topics in Latin American History

### AFRICA AND THE MIDDLE EAST
- 392L. Contemporary Africa, 1940-Present
- 393L. Jews of the Modern Middle East
- 394L. Middle Eastern Women
- 416L. Central Asia and Afghanistan from Mongol Era to WWII
- 418L. Central Asia and Afghanistan, Twentieth Century
- 428L. History of the Palestinian-Israeli Conflict
- 431L. The Middle East (Southwest Asia), 500-1700
- 432L. The Middle East (Southwest Asia), 1700-Present
- 491L. Modern and Contemporary Africa

### ANCIENT AND MEDIEVAL
- 310L. The Greek World
- 312L. Roman World
- 313L. Ancient Greece
- 314L. Roman History
- 316L. Early Middle Ages
- 317L. High Middle Ages
- 318L. Byzantine Empire
- 319L. Women in the Ancient and Medieval West
- 341A. Foundations of Russia
- 351L. Medieval England

### MODERN EUROPEAN
- 304L. The Holocaust
- 330L. Early Modern Europe
- 331L. History of Modern Europe, 1789 - Present
- 332L. The Age of the Renaissance
- 333L. Reformation Europe
- 334L. Early Modern France, 1589-1789
- 335L. The Shape of Modern Europe
- 336L. The French Revolution and Napoleon
- 337L. Europe in the Nineteenth Century
- 338L. Modern European Woman's History
- 339L. Europe, 1890-1945
- 340L. Europe Since 1945
- 341L. Modern Russia
- 343L. Modern Eastern Europe
- 346L. The European Cinema of Communism, Fascism, and Resistance
- 347L. Tradition and Crisis: Jews in Eastern Europe

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**WORLD HISTORY**

345. Comparative Genocide
349. The History of Food
366. Contemporary World History
435. History of the Francophone World
440, 540. The Silk Roads
441, 541. Mediterranean World
443, 543. The Early Modern Atlantic World
451. The United States in the World
492, 592. Proseminar in World History

**Courses (HIST)**

- **300. The United States Past and Present (3)**
  - Prerequisite: Completion of GE Foundation requirements.
  - Upper-division survey, may not be taken for credit in the United States field. For upper division transfer students in lieu of HIST 172 and 173.

- **301. Methodology of History (4)**
  - Prerequisite: History majors only.
  - Introduction to historiography and methodological issues, skills and competencies exercises, research methods, research presentations, and peer review. Creation of student portfolio used in remaining upper-division courses in major and assessed in HIST 499.
  - Letter grade only (A-F).

- **302. Theory and History (4)**
  - Prerequisite: HIST 301. Required of all History majors. Must be taken in the semester immediately following successful completion of HIST 301.
  - Introduction to history of historical profession, conceptual categories of historical inquiry, the ways theory shapes historical research and writing. Focuses on case studies, significant historical works, major schools of historical interpretation and recent historiographic trends.
  - Letter grade only (A-F).

- **303. Rebels and Renegades (3)**
  - Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
  - Exploration of music, literature and art used by 20th century social and political activists in an effort to understand the goals, tactics and accomplishments such activists used to make the world more just, inclusive and peaceful.

- **304. The Holocaust (3)**
  - Examines the destruction of European Jews by Nazi Germany during the Second World War. Students will trace the roots of antisemitism in European history, the origins of Hitler’s anti-Jewish assault, and the process from ghettoization to extermination.

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- **451**
308I. Law and Civilization (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examination of law as an intellectual effort to define, direct, and administer human experience. Examination of theories of knowledge, language, meaning, mental processes, social organization, personal responsibility and freedom underlying legal analysis and decision-making in courts as well as in administrative and bureaucratic settings.

309I. Men and Masculinity (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Exploration of male roles from an interdisciplinary perspective focusing on men as workers, friends, lovers, and fathers. Consideration of the choices available to men under the impact of tradition, feminism, and a changing job market. Gender-oriented social and political movements.
Letter grade only (A–F).

310I. The Greek World (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examines major events and ideas in the society and culture of ancient Greece. Emphasis on literature, the arts, and history. Topics include: ancient civilization, Homer and the Trojan War, mythology and religion, lyric poetry, the Persian Wars, the "Golden Age" of Athens, the Peloponnesian War, and Hellenistic culture.
Same course as CLSC 3111. Not open for credit to students with credit in CLSC 3111.

312I. Roman World (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examines major events and ideas in the society and culture of ancient Rome. Emphasis on literature, the arts, and history. Topics include: the Roman Republic, the Empire, the Roman Empire, and the end of the Roman world. Same course as CLSC 312. Not open for credit to students with credit in CLSC 312.

313I. Ancient Greece (3)
Prerequisite: Completion of GE Foundation requirements.
History of the Greek and the Greek world from the earliest times to the Roman conquest.

314I. Roman History (3)
Prerequisite: Completion of GE Foundation requirements.
History of Rome and the Roman world from the Eighth Century B.C. to the Fifth Century A.D.

316. Early Middle Ages (3)
History of Western Civilization from the fall of the Roman Empire in the West to the Crusades. Germanization of the West, evolution of Christian institutions, Slavic expansion, Byzantine civilization of the Eastern Empire, Islamic civilization, Carolingian age, feudalism, and manorial institutions.

317. High Middle Ages (3)
History of Western Civilization from the Crusades to the end of the Middle Ages. Revival of trade, growth of towns and capitalism, origins of modern political institutions, and medieval learning and art.

318. Byzantine Empire (3)
History of the Byzantine Empire from the 4th century AD to Constantinople's fall in 1453; the cultural heritage of the Roman Empire in the eastern Mediterranean; religious controversies and development of eastern Christianity; relations with Islam and medieval Europe.

319. Women in the Ancient and Medieval West (3)
Prerequisite: ENGL 100.
Examines roles and experiences of women in Western Europe from prehistory to the sixteenth century. Themes may include: construction of gender roles, relation between symbols and reality, intersection of private/public life, access to power/opportunity, the possibility of a "woman's culture.
Same course as WGST 312. Not open for credit to students with credit in WST 312 or WGST 312.

330I. Early Modern Europe (3)
Examines the multiple political and cultural re-inventions of Europe between the Italian Renaissance and the French Revolution. Studies the transformation of Europe as a society based around the Mediterranean and the Atlantic world and overseas empires.

331I. History of Modern Europe, 1789 – Present (3)
Prerequisite: Completion of GE Foundation requirements.
This course introduces the social, political, cultural, and economic changes that have transformed European societies from the French Revolution to the present. Letter grade only (A–F).

332. The Age of the Renaissance (3)
Examines the remarkable transformation of Europe during the Renaissance period (1350-1550), including themes of humanism and artistic and literary developments; humanism and politics; religion in the "Age of Reason." Particular emphasis on relationship between power and culture in Italian civilization.

333. Reformation Europe (3)
Examines the consequences of the Reformation and its impact on European societies throughout the sixteenth and seventeenth centuries. The course focuses on the political, economic, and cultural developments that have transformed Europe from the French Revolution to the present.

335. The Shaping of Modern Europe (3)
European political, social, economic, and intellectual life from the Age of Enlightenment to the present. This course will examine the political, economic, and cultural developments that have transformed Europe from the French Revolution to the present.

336. The French Revolution and Napoleon (3)
End of the Old Regime and the French Revolution. The rise of nationalism and the rise of Napoleon, the rise of liberalism and nationalism, and the rise of romanticism and the rise of modernity.

337. Europe in the Nineteenth Century (3)
Prerequisite: Completion of GE Foundation requirements.
Comprising the Napoleonic era and concluding with the First World War, this course examines the political, economic, and social developments that have transformed Europe from the French Revolution to the present. This course will examine the political, economic, and cultural developments that have transformed Europe from the French Revolution to the present.

338. Modern European Women's History (3)
Investigates how European history has impacted on women, and how women's issues have been shaped by historical events. Issues covered are: industrialization, the family, wars and revolutions, health and sexuality, and the "woman question" in politics, culture, and society.
Not open for credit to students with credit in WST 384 or WGST 384.

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339. Europe, 1890-1945 (3)
Prerequisite: Completion of GE Foundation requirements.
Explores the political, social, economic, international, and cultural crises prior to the First World War, the rise of totalitarianism in the Soviet Union and Nazi Germany, the Spanish Civil War, the Second World War, and the Holocaust.

340. Europe Since 1945 (3)
Examines the political, social, economic, and cultural history of Europe since the end of World War II. Themes include post-war recovery, the Cold War, decolonization, the fall of communism, the transformation of Central Europe, and the European Union.

341A. Foundations of Russia (3)
Prerequisite: Completion of GE Foundation requirements.
Evolution of the state structure, diverse cultural patterns, and social structures associated with ancient Russia; rise of Moscow; origins of autocracy and serfdom; westernization and modernization as problems during the imperial period to 1801. Particular emphasis on social history.

341B. Modern Russia (3)
Prerequisite: Completion of GE Foundation requirements.
Interaction with the West from 1801; era of great reforms and revolutionary movements; downfall of imperial Russia; establishment of the Soviet regime; chief political, social, economic and cultural developments in the Soviet era; role of the Soviet Union in world affairs.

342. Modern Eastern Europe (3)
Prerequisite: GE Foundation or consent of instructor.
Examines modern Eastern Europe from the emergence of nation states, to nationalism, world wars, fascism, Communism, conformity, dissent, and revolution. We will explore the role of Eastern Europe as a place and as an idea in modern Europe.

345. Comparative Genocide (3)
Prerequisite: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Explores the modern phenomenon of mass killings of targeted populations in order to achieve a particular demographic, political, or cultural goal. Examines a series of case studies - including the Armenian Genocide, the Holocaust, Cambodia, and Rwanda - to understand not only how and why genocides occur, but also to look at the possibilities of preventative action.

346L. The European Cinema of Communism, Fascism, and Resistance (3)
Prerequisite: Completion of the GE Foundation, one or more Exploration courses, and upper-division standing.
Focuses on European cinema of the twentieth century as a manifestation of totalitarian and ideological movements preceding, in between, and following the two world wars. The driving and ongoing resistance movements will also be examined.
Same course as RGR 346L and FEA 346L. Not open for credit to students with credit in RGR 346L and FEA 346L.

347. Tradition and Crisis: Jews in Eastern Europe (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing.
Explores the history of Eastern European Jewry, from its medieval origins to its destruction in the twentieth century. In particular, the course examines the impact of absolutist rule and the attempts to create new frameworks for Jewish identity.

348. Emancipation and Assimilation: Modern Jewish History of Western Europe (3)
Prerequisite: Completion of the GE Foundation, one or more Exploration courses, and upper-division standing.
Examines modern Jewish history in Western Europe. Topics include the ideas behind emancipation, the attempts to achieve it, and efforts to reconcile Jewishness with modern citizenship.

349. The History of Food (3)
Prerequisite: HIST 211 or 131 or consent of undergraduate/graduate advisor.
Religious and secular role of food, its connection to issues of identity, and significance of securing reliable sources of sustenance as central to political, economic, and military agendas. All underline the usefulness of studying food and our complicated relationships with it throughout history.
Course fee may be required.

351. Medieval England (3)
Analysis of English political institutions, society, religion and economy in the Anglo-Saxon, Norman, Plantagenet, and late medieval eras.

353. Tudor and Stuart England (3)
Social, cultural, religious, political, and dynastic history of England from 1485 to 1714. Renaissance and Reformation; Crown and Parliament; civil war and revolution; the pre-industrial economy; relations with Scotland, Ireland, Europe, and America.

356. Georgian and Victorian Britain (3)
Social, cultural, religious, political, and constitutional history of Britain from 1714 to 1801. Changes in agriculture, commerce, industry, and population; Parliamentary democracy; Irish problems; relations with America, India, Europe, and the world.

357. Recent Britain (3)
Social, cultural, economic, and political history of 20th century Britain. Governments and people: labor, party politics, and the welfare state; two world wars; problems with Ireland and Empire; the end of Empire; race relations; mass media and popular culture; contemporary developments.

362. Colonial Latin America (3)
Prerequisite: Completion of GE Foundation requirements.
Iborean preparation for overseas expansion, discovery and conquest in America, evolution of colonial institutions, dynamic 18th century developments, wars of independence.

364. Latin American Nations (3)
Prerequisite: Completion of GE Foundation requirements.
Political, economic, social and intellectual evolution of Latin America in the 19th and 20th Centuries.

365. Brazil (3)
The course surveys the history of Brazil from 1500 to the present. It covers the colonial, imperial and republican periods, analyzing the impact of slavery on society, the myth of "racial democracy," and contemporary economic and urbanization patterns. It also studies the 1964-1985 dictatorship and the return to democracy, as well as the challenges of twentieth-first century Brazil.

366. Latin American History and Literature (3)
Latin American history through the novel and film. Will integrate literature and the cinema with traditional historical materials in order to provide the student with a deeper understanding of the development of Hispanic America.

370. Chicano History (3)
Prerequisite: Completion of GE Foundation requirements.
Chicanos in the settlement and development of the Southwest and in contemporary U.S. society. Chicano experience as a U.S. minority group; emerging civil rights movement of La Raza. Lator grade only (A-F). Same course as CHLS 300. Not open for credit to students with credit in CHLS 300.

372. United States: Colonial Period (3)
Discovery and settlement of the new world. European institutions in a new environment; development of colonial government, economy and social institutions; European dynastic rivalry and colonial America.
373. United States: Age of Revolution (3)
Clash between British attempts to control and tax the colonies and colonial resistance for both growth of an independent spirit; the American Revolution; problems of the new nation; the constitution.

375. The United States Emerges as a Nation (3)
An analysis of the political, economic, social, and intellectual forces from the adoption of the Constitution through the 1840s.

376. United States: Civil War and Reconstruction (3)
Secession, civil war, and the reconstruction of the nation.

378. United States History: 1877-1920 (3)
Development of the U.S. as an urban, industrial, multicultural society; progressive reform movements; at the city, state, and national level, rise of U.S. as a world power; WWI.

379. United States: Twenties, Depression, and World War II (3)
The conflict-ridden 1920s, the Depression years, and the beginnings of welfare democracy. The United States in World War II.

380A. The United States in the Liberal Era 1945-1968 (3)
The political, social, cultural, and economic history of the United States between World War II and the late 1960s, an era when American involvement in the Cold War helped both sustain and eventually undermine the liberal anti-communal order. Not open to students with credit in HIST 380.

380B. The United States Since 1968 (3)
Explores the Vietnam War, decolonization, suburbanization, consumerism, conservatism, the "new" Cold War, globalization, and the "war on terror." Uses music, film, fiction, and contemporary historical scholarship to address political, economic, and social issues; examines the connections between politics and culture.

382A. Imperial China (3)
Prerequisites: Completion of GE Foundation requirements; upper-division standing. Introduction to Chinese civilization from prehistoric to modern times stressing foundations of Chinese philosophy and material culture, and the creation of Chinese problems: production, reproduction, and population.

382B. Modern China (3)

383A. Japan to 1850 (3)
Prerequisite: Completion of GE Foundation requirements. Japan from prehistory to the nineteenth century; emphasis on social and cultural developments; the evolution of political institutions, and the development of early modern society.

383B. Modern Japan (3)
Prerequisite: Completion of GE Foundation requirements. Japan from 1650 to 1945; collapse of the Tokugawa bakufu and rise of the Meiji state; industrialization, social change, and protest; "Taisho democracy" and the Pacific War.

384. Contemporary Japan (3)
Japan since 1945: impact of Hiroshima and Nagasaki; American occupation of Japan; Japan's "economic miracle," social change and social criticism in literature and film; Japan's role in the contemporary world; conflict with the U.S.

385. History of India (3)
Survey of the South Asian subcontinent from its historic roots, through the founding/consolidation of the Moghul Empire, to the beginnings of Western imperialism and establishment of the British Raj, ending with nationalism and the events in contemporary South Asia.

386. History of Modern Southeast Asia: Colonial Era to the Vietnam War (3)
Survey of political and cultural history of modern Southeast Asia from 1800: Expansion of European influence, growth of nationalism and process of decolonization, and the post-WWII configuration of the area. Both mainland and insular Southeast Asia will be surveyed.

387. The Vietnam War In U.S. History (3)
Prerequisite: G.E. Foundation. Examines the history of American involvement in Vietnam, the experience of Americans (and to some extent, Vietnamese) who fought the Second Indochina War (1954-1975), and the impact of the war on American society.

388. Contemporary China (3)
China from 1949 to the present. The political, economic, and cultural factors that shaped its continuity and change and the impact of its transformation on Greater China, including Hong Kong and Taiwan.

391. The Making of Modern Africa, 1800-1939 (3)
Survey of sub-Saharan Africa from the early 19th through the mid-20th centuries. Examines the European conquest and the entrenchment of colonialism. Emphasizes the relationship between colonial systems and the continuing relevance of these experiences today.

392. Contemporary Africa, 1940-Present (3)
Surveys history of African continent during transition from colonialism to national independence and post-colonialism. The current political, economic, social, and intellectual trends of Africa will be considered in historical context. African art, politics, and perspectives will be explored.

393. Jews of the Modern Middle East (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Explores history, culture, and transformations of important Jewish communities in Middle East. Examines effects of modernization and colonialism on these disparate communities, including phenomena of Jewish colonization of other Jews and impact of exclusivist nationalisms on Jewish identities.

394. Middle Eastern Women (3)
Prerequisites: Upper division status. Explores a wide range of roles played by Middle Eastern women throughout history, seeking to understand their multi-layered thoughts and activities, and discuss the most important issues related to women and gender in Middle Eastern history.

396. Contemporary World History (3)
Prerequisite: HIST 211 or consent of undergraduate graduate advisor. World historical approach to the study of the twentieth century. Themes include: the changing global economy and environment; the advance and retreat of empire; colonialism and post-colonialism; contending ideologies; the intensification of globalization at the end of the century.

4001. History of Western Scientific Thought (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing. Introduction to history of science for scientists and non-scientists. Evolution of scientists' views of nature and ends of their activities; ways science is affected by and affects contemporary cultures.
401. History for Secondary Social Science Teachers (3)
Prerequisites: completed a majority of all coursework in the Social Science Subject Matter Program.
Capstone course for students in Social Science Subject Matter Program.
Examination of World and American history to promote global perspective and deeper knowledge of historical context within California History-Social Science Framework and Standards, historiography and historical thinking, methodology related to teaching and learning history. Emphasis on embedding interdisciplinary approaches from social sciences in teaching and learning of history.
A grade of "B" or better is required for advancement to student teaching. Letter grade only (A-F).

402. Oral History Methods (1-3)
Through a series of workshops and through field experiences, skills in oral history will be developed which will enable students to use oral history either for their own personal use in family history or for class projects.
Credit/No Credit grading only. Not open for credit to students with credit in CAS 365.

405/505. Classical Japan (3)
Japan from prehistory to the fifteenth century. Connections to other Asian cultures, the influence of Buddhism, and development of Japanese aesthetics exemplified in literature and art; dynamics of centralized vs. regional power; civil vs. military authority.

406A. Asian Women: East and Northeast Asia (3)
Prerequisite: Upper division status.
Exploration of the histories of women in China, Japan and Korea from prehistory to the present. Major themes include women's contributions to society, cultural and political change, and the complex relationship between feminism and nationalism in the modern period.
Same course as ASST 406A and WGES 406A. Not open for credit to students with credit in ASST 406A, WST 406A or WGES 406A.

406B. Asian Women: South and Southeast Asia (3)
Emphasis on modern period; exploration of complexities of women's roles in multicultural, multilingual societies in South and Southeast Asia, including gender as a continuing site of contention in nationalist discourse.
Same course as ASST 406B and WGES 406B. Not open for credit to students with credit in ASST 406B, WST 406B or WGES 406B. Letter grade only (A-F).

407. Japan and the United States in the 20th Century (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examination of relationships between Japan and the United States, emphasizing cultural, economic, and political conflict and cooperation.

409. Early Modern Japan (3)
Japan from the mid-16th century to the end of the Tokugawa period in 1868; reunification, the growth of urban centers and transportation, economic growth; blossoming of political theory, and of popular culture.

410. Chinese Emigration/Migration in Modern Period (3)
Emphasis on Chinese in SE Asia, the Americas, and Western Europe; exploration of the implications of human migration for the developing world, and the fluidity and contested nature of "nation states."

416. Central Asia and Afghanistan from the Mongol Era to WWII (3)
Prerequisite: Upper-Division status.
An introductory survey of the history of change and continuity in Afghanistan and Turkistan (currently Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan) during the Mongol Era of the Thirteenth Century and the World War I.

418. Central Asia and Afghanistan, Twentieth Century (3)
Prerequisite: Upper-Division status.
An introductory survey of the history of change and continuity in Afghanistan and Turkistan (currently Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan) during the Twentieth Century.

420. History of the Palestinian-Israeli Conflict (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examination of evolution of Palestinian-Israeli conflict from late nineteenth century to present. Explores how social, economic, and political realities gave birth to competing Zionist and Palestinian national identities evolved over time, highlighting diverse perspectives within each national community, including those informed by gender and class.

431/531. The Middle East (Southwest Asia), 600-1700 (3)
Explores political, cultural, social, and economic developments in the region: emergence of Islam; creation and development of Islamic Empire; rise of dynastic successor states and "gunpowder" empires; European encroachment; and, integration into the emerging world system.

432/532. The Middle East (Southwest Asia), 1700-Present (3)
Explores political, cultural, social, and economic developments in the region: Modernization and reform; problems and impact of modernity and imperialism; state building; nationalism; and, Islamic revivalism.

435. History of the Francophone World (3)
Prerequisites: HIST 132, 212, or approval of advisor.
Commencing with a study of the history of French language, explores methods by which France expanded its global presence. Themes to be covered include French colonialism, resistance to French overseas expansion and issues relative to race and identity.

437. History of Germany 1871 to Present (3)
History of Germany from unification: the First World War, the Weimar Republic, the National Socialist Reich, and the post-war recovery.

440/540. The Silk Roads (3)
Prerequisite: HIST 211 or 131 or consent of undergraduate/graduate advisor.
Examines the Silk Roads from the first century BCE to the end of the fifteenth century CE from a world historical perspective. Emphasis is on economic integration, cultural diffusion, exchange and syncretism, and comparative demographic and political development.

441/541. Mediterranean World (3)
Prerequisite: HIST 211 or 131 or consent of undergraduate/graduate advisor.
Focuses on pre-modern Mediterranean world up to geographical shift of political power and wealth to the Atlantic world with an emphasis on the exchange and interaction of peoples and ideas.
Letter grade only (A-F).

443/543. The Early Modern Atlantic World (3)
Prerequisite: HIST 211 or 132 or consent of undergraduate/graduate advisor.
Examines early modern Atlantic from a world historical perspective with an emphasis on cultural encounter and exchange, environmental interaction, and comparative colonial development from early Iberian maritime expansion through the Atlantic revolutions and wars of independence.
Letter grade only (A-F).
450. Foucault and His Critics: Making A Social Body (3)
Examines Foucaultian texts and works of other theorists in historical context. Also explores the ways in which historians apply Foucault’s theories to investigations of social and political reforms of modern Europe, specifically the history of mass culture and citizenship.

451. The United States in the World (3)
Prerequisites: Upper-Division status.
A survey of American history from the colonial period to the present era framed within a world history context, focusing on comparisons and connections between national and international developments.

452. United States at War (3)
Prerequisites: Completion of GE foundation requirements. This course explores the United States experience of modern warfare. Emphasis is given to the study of the military, the impact of war on society, the role of the United States in global conflicts, and its role in world affairs.

453. American Jewish History (3)
Chronological and thematic approach to American Jewish history. Covers Sephardic, Ashkenazi, European, and American Jewish communities. Examines the impact of immigration, discrimination, and assimilation on Jewish life.

454. History of Pre-Colombian Mexico (3)
History of Mesoamerica from prehistoric times to the Spanish conquest, emphasizing the study of the society and the religious and intellectual life of people of pre-Columbian America.

455. Mexico (3)
Spanish conquest of America; settlement and exploration; colonial life and institutions; the achievement of independence from Spain; revolution, foreign intervention, dictatorship in the 19th century; the Revolution of 1910 and after; contemporary Mexico.

456. The Caribbean and Latin America (3)
History of the Caribbean Islands and Central America from Spanish colonization to the present, with emphasis on Cuba and Central America. Economic, political and cultural development and relations with the United States.

457. Latin American Environmental History (3)
Prerequisite: Upper-Division standing. Completion of the GE Foundation, 3 units Latin American survey (HIST 161 or 364 or equivalent) or consent of instructor.
Explores the environmental history of Latin America from an interdisciplinary perspective, with a focus on the production of nature and society and the transformation of the relationship between human societies and the natural world from pre-European contact to the 21st century.

Prerequisite: Completion of the GE Foundation, one or more Exploration courses, and upper division standing.
Explores the history of the Spanish Empire (Spain and Spanish America) ca. 1500-1800 through the politics of visual culture (paintings, maps, clothing, festivals, architecture). Historical focus on the social, cultural, and political implications of visual culture. Emphasis on the connections between metropolitan and colonial culture and politics and reading visual culture as historical documentation.
Letter grade only (A-F).

459. Topics in Latin American History (3)
Selected topics in Latin American history. The topic will vary from one semester to the next. May be repeated to a maximum of 9 units with different topics.

460. Long Beach History (3)
Survey of the history of Long Beach, California, 1890 to the present. Emphasis on local and regional politics, economic development, international trade, and the complicated roles of ethnic and racial diversity in a city with both an urban, and suburban, history.

461. Ethnic Groups in Urban America: An Historical Examination (3)
Examination of the origin, migration, settlement and the assimilation of various ethnic groups in American cities since the late 19th century. Emphasis will be on the economic, social, and political struggles encountered by different groups adjusting to urban life.

462. History of the Westward Movement (3)
Examination of the impact of American expansion on the West. Euro-American exploration and migration, ethnic conflict and conquest, gender and family roles on the frontier, environmental changes in the West, development of economic institutions, and urbanization of the region.

463. History of the South (3)
Explores development of the South, including examination of regional culture, traditions, and social crisis in the Antebellum period; conflict and social change; economic transformations: role of women in the region; and the interaction of social groups in the Modern South.

464. California History (3)
Survey of California from the 1950s to the present. Emphasis on migration, cultural diversity, and significant social, political, and economic developments.

465. The History and Culture of American Cities (3)
Prerequisites: Completion of GE foundation requirements, one or more Exploration courses, and upper division standing.
Interdisciplinary exploration of the history and cultural life of American cities from the nineteenth century to the present.

466. American Immigration and Ethnicity (3)
Explores the history of immigration to the United States and the experiences of immigrants in American society. Major themes include political, social, and economic implications of immigration; push and pull factors; nativism; assimilation; and social constructions of ethnicity.

467. The History of Social Activism (3)
Prerequisites: General Education Category A must be completed prior to taking any upper division course.
Social movements are collective efforts to change society. At many times in history they have had dramatic consequences and they continue to be a focus of controversy, conflict, and change today.

470A. American Cultural History (3)
Development of American way of life treated in terms of values, behavior and institutions, themes of individualism, community, ethnic diversity and social reform.

470B. American Cultural History (3)
Development of American way of life treated in terms of values, behavior and institutions, themes of individualism, community, ethnic diversity and social reform.
478. Foreign Relations of the U.S. (3)
Incorporates a global perspective and considers the influence of such issues as domestic politics, bureaucratic rivalry and decision-making, economic patterns, ideology, and the role of special interest groups in the making of foreign policy.
Same course as JST 478. Not open to credit to students with credit in JST 478.

479. U.S. Constitution: Origins and Early Development (3)
European sources of constitutional thought, colonial background, impact of the American Revolution, the framing period and the rise of a national approach to the study of constitutional law; a comprehensive overview of the evolution of constitutionalism as a basic principle in American thought and institutions.

480. Law and Fundamental Rights in American History (3)
Selected variable topics on civil liberties issues addressing the historical development of constitutional guarantees in the areas of freedom of expression, privacy, church and state, due process, and equal protection.

481. The Environmental History of Early America: 1500-1860 (3)
Prerequisites: ENGL 100 and upper division status.
Explores environmental history, with a focus on how Native Americans, Europeans, Africans (and their descendants) defined relationships with the natural world and manipulated it according to economic needs and cultural values.

482. Recent American Environmental History (3)
An examination of the impact of industrialization and urban growth on the American environment, the emergence of ecological consciousness and green politics, and the creation of the idea of Nature in American culture in the U.S. since the 1800s.

483. Women in Eighteenth-Century England and America (3)
Prerequisites: ENGL 100 and upper division status.
Representations and realities of women’s lives, 1660-1800, using critical methodologies of history and literature; analysis of literary and historical texts to explore law and economics, religion, education and culture, marriage, sex, and health; politics and revolution.

484. Religion in American History (3)
Prerequisite: Completion of GE Foundation requirements.
Explores American religion from European settlement to present. Focuses on interconnections between American religion, politics, and culture—looking at literature, film, music, moral crusades, and built environment. Examines how beliefs structured interactions between social groups.
Not open to students with credit in HIST 371.

485A. History of Women in the U.S. Early Period (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of roles and activities of American women from colonial period to 1850, with focus on slavery, immigration, family, economy, law, and politics.
Only 3 units of 485A-B may be applied to a field of concentration in U.S. History for the major. Same course as WGS 485A. Not open to credit to students with credit in WIST 485A or WGS 485A.

485B. History of Women in the U.S. Since 1850 (3)
Prerequisite: Completion of GE Foundation requirements.
Examines the changing roles and status of women’s economic, political, and social roles. It also explores the suffrage movement, the role played by women in WWII and the changes brought forth during the “second wave” of feminism.
Only 3 units of 485A-B may be applied to a field of concentration in U.S. History for the major. Same course as WGS 485B. Not open for credit to students with credit in WIST 485B or WGS 485B.

486. History of Afro-Americans in the United States (3)
Examines the roots and culture of Afro-Americans from African origins to the present. We will explore the transformation from slavery to freedom, segregation and racial conflict, immigration patterns, societal interactions, and the experiences of women.

487. Film and Chinese History (3)
Exploration of the complex relationship between history and film in modern Chinese history.

488. The Chinese Revolution (3)
Prerequisite: HIST 362B or consent of instructor.
Theory and practice of revolutionary socialism in the People’s Republic of China; historical and ideological background of the Chinese revolution, Mao and the Cultural Revolution, politics, culture and society in China.

489. Topics in Legal History of the United States (3)
Case studies in American law from colonial times to the present: English common law heritage, puritan and frontier influence, the legal profession, judicial traditions, formative stages in criminal law, torts and contracts, and modern trends in legal thought.
May be repeated to a maximum of 6 units with different topics.

490. Special Topics in History (1-3)
Topics of current interest in history selected for intensive development.
May be repeated to a maximum of 6 units with different topics in different semesters, but no more than 3 units may be used to satisfy the requirements for the major. Topics will be announced in the Schedule of Classes.

491. Modern and Contemporary Africa (3)
Conquest of Africa by European states, contrasting colonial systems as they evolved, anti-colonial movements and progress towards self-government or independence, problems of economic and political development, and race tensions in areas of white settlement.

492/592. Proseminar in World History (3)
Prerequisite: Consent of the instructor.
Discussion and analysis of recently published historical works and materials from a world history perspective.
May be repeated to a maximum of 6 units.

494. Practicum in History (1-3)
Prerequisites: Consent of instructor and department chair.
Field work in History, supplemented by reading and tutorials under direction of a faculty member. Internship, small group discussion, teaching, and other assignments directed by supervising faculty member.
May be repeated to a maximum of 6 units, but no more than 3 units may be applied to the major in History.

495. Colloquium (3)
Prerequisites: HIST 301 and nine additional units of upper division History.
Seminar level course exploring a specific historical field or issue chosen by instructor; students expected to analyze and interpret primary and secondary sources in a paper presented to the class.
Part of core requirements for students declaring a major before summer 2001; students declaring a major after spring 2001 will be required to take HIST 495 as a core requirement, not 496.

496. Variable Topics in U.S. History (3)
Variable topics in U.S. history from the 17th century to the present.
This course fits within the 400-level thematic courses of the U.S. field. Some background in U.S. history is strongly encouraged.
May be repeated to a maximum of 6 units, with different topics in different semesters.
498. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study under the supervision of a faculty member.
May be repeated to a maximum of 6 units.

498H. Honors Research (3)
Research for and writing of a senior thesis under the direction of a
departmental advisor.

499. Directed Studies in Oral History (1-6)
Prerequisite: Consent of instructor.
Directed study on a research topic using the methodology of oral
history.
May be repeated to a maximum of 6 units. Same course as CILA 498.
Not open for credit to students with credit in CILA 498.

499. Senior Seminar (4)
Prerequisites: Completion of HIST 301, 302, and 18 units of upper-
division course work in History; at least two courses (6 units) of
which must be in the 499 seminar’s area of concentration.
Students must demonstrate mastery of historical processes and
literature through: 1) portfolio submission; 2) research paper, and
3) oral presentations.
Not open for credit to students who have not met the prerequisites
listed above. Letter grade only (A-F).

GRADUATE LEVEL

501. Theories and Methodologies of History (3)
Prerequisite: Graduate standing in History.
Development of history as a discipline, major schools of historical
interpretation, and recent developments in analysis and theory.
Emphasis will be placed on the interrelationships of history with
other disciplines in the social sciences and humanities.
Letter grade only (A-F).

505/405. Classical Japan (3)
Japan from prehistory to the fifteenth century. Connections to other
Asian cultures, the influence of Buddhism, and development of
Japanese aesthetics exemplified in literature and art; dynamics of
centralized vs. regional power; civil vs. military authority.

510. The Literature of History (3)
Reading and discussion of major works and intensive study of
bibliography and bibliographical aids. Includes a comparative
history component.
Letter grade only (A-F). May be repeated to a maximum of 6 units
in the same semester.

510E. The Literature of History (World) (3)
The literature of World History. Reading and discussion of major
works and intensive study of bibliography and bibliographical aids.
Includes a comparative history component.
Letter grade only (A-F). May be repeated to a maximum of 8 units
in different semesters.

516. Central Asia and Afghanistan from the Mongol Era
to WWI (3)
Prerequisite: Upper Division Status.
An introductory survey of the history of change and continuity in
Afghanistan and Turkistan (currently Kazakhstan, Kyrgyzstan,
Tajikistan, Turkmenistan, and Uzbakistan) during the Mongol Era of
the Thirteenth Century and the World War I.
Letter grade only (A-F).

518. Central Asia and Afghanistan, Twentieth Century (3)
Prerequisite: Upper Division Status. An introductory survey of
the history of change and continuity in Afghanistan and Turkistan
(currently Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and
Uzbekistan) during the Twentieth Century.
Letter grade only (A-F).

531/431. The Middle East (Southwest Asia), 600-1700 (3)
Explores political, cultural, social, and economic developments
in the region: emergence of Islam; creation and development of
Islamic Empire; rise of dynastic successor states and “gunpowder”
empires; European encroachment; and, integration into the
emerging world system.

532/432. The Middle East (Southwest Asia),
1700-Present (3)
Explores political, cultural, social, and economic developments
in the region: Modernization and reform; problems and impact of
modernity and imperialism; state building; nationalism; and, Islamic
revivalism.

540/440. The Silk Roads (3)
Prerequisite: HIST 211 or 121 or consent of undergraduate/graduate advisor.
Examines the Silk Roads from the first century BCE to the end
of the fifteenth century CE from a world historical perspective.
Emphasis is on economic integration, cultural diffusion, exchange
and syncretism, and comparative demographic and political
development.

541. Mediterranean World (3)
Prerequisite: Graduate standing in History.
Focus on pre-modern Mediterranean world up to geographical shift
of political power and wealth to the Atlantic world with an emphasis
on the exchange and interaction of peoples and ideas.
Letter grade only (A-F).

543. The Early Modern Atlantic World (3)
Prerequisite: Graduate standing in History.
Examines early modern Atlantic from a world historical perspective
with an emphasis on cultural encounter and exchange,
environmental interaction, and comparative colonial development
from early modern maritime expansion through the Atlantic
revolutions and wars of independence.
Letter grade only (A-F).

550. Foucault and His Critics: Making A Social Body (3)
Examines Foucauldian texts and works of other theorists in
historical context. Also explores the ways in which historians apply
Foucault’s theories to investigations of social and political reforms of
modern Europe, specifically the history of mass culture and
citizenship.
Letter grade only (A-F).

560/460. Slavery in Latin America (3)
Completion of the GE Foundation, one or more Exploration
courses and upper division standing:
Systems of forced labor in Latin America since European
arrival; the slave trade; slavery in economic context; resistance
and negotiation; plantations and urban slavery; slaves in the
independence wars; manumission and slavery abolition; Afro-latino
Americans post slavery.

Culture in the Early Modern Spanish Empire (3)
Prerequisites: Completion of the GE Foundation, one or more
Exploration courses, and upper division standing.
Explores the history of the Spanish Empire (Spain and Spanish
America) ca. 1500-1800 through the politics of visual culture
(paintings, maps, clothing, festivals, architecture.) Historical
focus on the social, cultural, and political implications of visual
culture. Emphasis on the connections between metropolitan
and colonial culture and politics and reading visual culture as historical
documentation.
Letter grade only (A-F).
577A/477A. American Cultural History (3)
Development of American way of life treated in terms of values, behavior and institutions, themes of individualism, community, ethnic diversity and social reform.
Letter grade only (A-F).

577B/477B. American Cultural History (3)
Development of American way of life treated in terms of values, behavior and institution, themes of individualism, community, ethnic diversity and social reform.
Letter grade only (A-F).

590. Topics in Comparative History (3)
Prerequisite: Graduate standing in History.
Selected topics in history involving cross-cultural and comparative approaches.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

592/492. Proseminar in World History (3)
Prerequisite: Graduate standing in History.
Discussion and analysis of recently published historical works and materials from a world history perspective.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

595. Special Preparation (3)
Prerequisite: Graduate standing; consent of Graduate Advisor.
Special preparation for the M.A. examinations under faculty direction.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

611. Seminars in Ancient and Medieval History (3)
Prerequisite: Graduate standing in History.
Selected topics in ancient or medieval history.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

631. Seminars in European History (Including Britain and Russia) (3)
Prerequisite: Graduate standing in History.
Directed reading and research in the political, economic, social and cultural history of Europe.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

663. Seminar in Latin American History (3)
Directed reading and research in history, focusing on selected topics in Latin American history.
May be repeated for a maximum of six units in different semesters.
Letter grade only (A-F).

673. Seminars in United States History (3)
Prerequisite: Graduate standing in History.
Selected topics in domestic or international affairs from colonial times to the present.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

682. Seminars in Asian History (3)
Prerequisites: Six units of upper division Asian history or consent of instructor.
Selected topics in Asian history.
May be repeated to a maximum of 6 units in different semesters.
Letter grade only (A-F).

695. Directed Readings (1-3)
Prerequisites: Consent of Instructor.
Readings on an individual basis.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Consent of Instructor.
Research on an individual basis.
Letter grade only (A-F).

698. Thesis (1-4)
Planning, preparation and completion of non-curricular work in history for the master's degree.
HOSPITALITY FOODSERVICE AND HOTEL MANAGEMENT
College of Health and Human Services
Department of Family and Consumer Sciences

Department Chair: Wendy Reibold
Department Office: Family and Consumer Sciences (FCS) Bldg., Room 001
Telephone / Fax: (562) 908-4464 / 985-4414
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Faculty: Judith Argelin, Lee Blecher, Maria Clauer, Gail C. Frank, Avery E. Goldberg, James E. Koval, Jacqueline Lee, Margaret Lichty, Suzanne Marshall, Nafizur Medora, Wendy Reibold, Lydia Sondhi, M. Sue Stineley, Ramessa B. Torra (Emeritus), Richard V. Tuverson, Jung-Moo (Runsoo) Yoh

HFHM Program Director: Lee Blecher
Baccalaureate Program Coordinator: Richard V. Tuverson
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichty
Administrative Support Coordinators: Mikel Lok, Marina Remensky
Instructional Support Technician: Bonnie Rice

Career Possibilities
Restaurant Manager • Hotel Manager • Catering Director • Foodservice Manager in College, University or Corporate Setting • Manager in a Bed and Breakfast Facility • Healthcare Hospitality Director • School Foodservice Director • Club Manager • Manager in Senior Nutrition Programs, Stadiums or Amusement Parks • Food Purchaser or Broker (For more information, see www.careers.csulb.edu)

Undergraduate Programs

Bachelor of Science in Hospitality Foodservice and Hotel Management (code FCS_BS05) (120 units)

The Bachelor of Science in Hospitality Foodservice and Hotel Management furnishes students with the necessary background and expertise to excel as managers and leaders in the restaurant, foodservice, hotel, and lodging industries. The program provides a broad-based foundation in both academic and professional courses and includes hands-on practical experience. The program prepares students for entry into a dynamic multi-ethnic and multi-cultural domestic and international job market. Career options include: restaurant manager, hotel manager, catering director, foodservice manager in a college, university, healthcare, or corporate setting, manager in a motel or bed and breakfast facility, school foodservice director, manager in senior dining programs, club stadiums or amusement parks, or as a food purchaser or broker.

In addition to general education requirements (48 units), students must complete a minimum of 40 units from the major department, 24 of which must be upper division.

Students transferring from another college or university will receive transfer credit in required courses if the course is equivalent to the course at this university and it is accepted by this university.

Requirements:
ACCT 201; CAFF 321; COMM 110; ECON 300 or 101 and 101; FSCE 299 and 495; HFHM 173, 270, 274, 275, 372, 373, 376, 378, 379 (3 units), 474, 476, 492; One class chosen from HRM 360 or 361 or PSY 381; one class chosen from MATH 108, EDP 419, IS 310, HSC 403 or SOC 250; MKTG 300; NUTR 132; PHL 160; One class chosen from PSY 100 or SOC 100; one class chosen from REC 141 or 225 or 340; plus 9 units in one of the following concentrations: a) Hotel and Lodging: HFHM 374, 471, and 472; b) Restaurant and Foodservice: HFHM 375, 473, and 477; c) Hotel, Food and Beverage: HFHM 375 or 472, 473, and 477. Additionally, a minimum of 8 units of pre-approved coursework taken to develop specific interests are selected in consultation with a faculty advisor from the following: Any HFHM major course not selected, CAFF 429; COMM 337; FSCE 496, 497; GEDG 352; GERN 400; additional units of HFHM 379, 492; IS 301; NUTR 336, 439; REC 325, 462, 468; or others as approved by advisor. Each course on the student's program planner must be completed with a grade of "C" or better. Furthermore, a course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than "C" may proceed with other courses with the approval of the student's faculty advisor.

HFHM 492J requires 800 hours of approved work experience as a prerequisite for this degree. Field study hours in HFHM 379 can be used toward meeting the 800 hours.

Minor in Hospitality Foodservice and Hotel Management (code FCS_UMO5)

Twenty-two units including HFHM 173, 270, three units of 379 or 492J, 15 additional units selected from HFHM 235, 274, 275 or 276, 372, 375, 376, 378, 473, 474, and 477 as approved by a Hospitality Foodservice and Hotel Management faculty advisor.

The Minor in Hospitality Foodservice and Hotel Management is available to any non-Hospitality Foodservice and Hotel Management major.

Foodservice Systems Administration Certificate (code FCS_CT02)
The Certificate program in Foodservice Systems Administration is designed to provide those students pursuing the bachelor's degree in Dietetics and Food
Administration, Business Administration, and other related fields with additional background in foodservice management, increasing their expertise at the management entry level. The program is appropriate for a variety of applications, including foodservice in restaurants, catering, hospitals, public schools, industrial foodservice, hotels and motels, airlines, and in governmental regulatory agencies.

The Certificate may be earned in conjunction with the bachelor’s degree or awarded subsequent to obtaining the degree at CSULB. Courses taken to meet the requirements of the Certificate may be the same ones used to satisfy major, minor or General Education requirements, or the degree requirements of the participating departments.

Requirements
1. A bachelor’s degree in dietetics/food administration, business administration, or other related fields;
2. Satisfactory completion of the following courses:
   A. Nutrition: NUTR 132;
   B. Food Preparation and Service: HFMH 235, 275;
   C. Foodservice Management: HFMH 375, 477, 492;
   D. Business Administration: ACCT 201, HRM 361, 362, 440, MGMT 300, MKTG 300;
   E. Related Fields: CHEM 302, ECON 300.
3. Maintain a GPA of 2.5 in the courses of the program and overall;
4. Consultation with and certification of successful completion by the Director of the Program in the Department of Family and Consumer Sciences.

Courses taken under the Credit/No Credit grading option may not be applied to this Certificate program.

Hospitality Foodservice and Hotel Management Courses (HFMH)

LOWER DIVISION

173. Applied Foodservice Sanitation (1)
Principles of sanitation and safety; the causes and controls of food borne illnesses, sanitary practices with purchasing, receiving, storing and preparing food, principles HACCP, sanitary maintenance of kitchen, dining room and equipment, personal hygiene, and safety of the food handler. Letter grade only (A-F). (Lecture-discussion 1 hour)

235. Principles of Food Preparation (3)
Application of scientific principles in the preparation of selected food products emphasizing physical and chemical properties of food; methods and techniques of food preparation; factors that contribute to quality of prepared foods. Letter grade only (A-F). (Lecture-discussion 2 hours, Laboratory 3 hours) Course fee may be required.

270. Introduction to Hospitality Foodservice and Hotel Management (3)
Introduction to hospitality foodservice and hotel industry and historical overview of field. Careers in hospitality foodservice and hotel management discussed. Overview of organization and current forces shaping foodservice and hotel operations. (Lecture-discussion 3 hours)

274. Global Issues in Hotel and Restaurant Management (3)
Prerequisites: ENGL 100.
International hospitality foodservice and hotel management. Issues and problems in the hotel and restaurant industry from a global perspective. Dynamics of human interaction in a multi-ethnic and multi-cultural global job market. (Discussion 3 hours)

275. Food Production Systems I (3)
Prerequisites: NUTR 132 and HFMH 235.
Factors which influence individual, family and quantity foodservice. Menu planning and food selection, preparation and service in relation to management of time, energy and money. Foodservice practices for regular meals and special occasions. Course fee may be required. (Lecture-discussion 2 hours, laboratory 3 hours)

276. Food Production and Service in Hospitality Foodservice and Hotel Management (3)
Prerequisites: HFMH 235. (Recommended)
Covers fundamentals of planning, organizing, preparing, and serving of meals as applicable to hospitality foodservice and hotel industry. Operations relative to provision of quality food and beverage services included. Letter grade only (A-F). Course fee may be required. (Lecture-discussion 2 hours, laboratory 3 hours)

UPPER DIVISION

301. College Dining Services and Bookstore Administration (3)
Prerequisite: Consent of Instructor.
Academic and experiential learning in the management of college dining services and bookstore. Internship for student employees of Forty Niners Shops, Inc.; 150 hours of work experience, 16 hours of classroom instruction.

372. Hotel and Lodging Management (3)
Prerequisite: HFMH 270.
Organization and management of hotel and lodging facilities. Covers functions of various operational departments and how they interrelate. Importance of assuring quality guest service emphasized. Fieldtrips may be required. (Lecture-discussion 3 hours)

373. Hotel and Restaurant Information Technology (3)
Prerequisites: HFMH 270 or consent of instructor.
Management of information systems as found in the hotel and restaurant industry. The course includes applications of technology and computer systems to facilitate front office, sales and marketing management, restaurant management, customer service, and communications in hotel and restaurant operations. Letter grade only (A-F). (Lecture activity 3 hours)

374. Meeting Planning in Hotels and Restaurants (3)
Prerequisites: HFMH 270.
Planning, organizing, and implementing meetings in the hotel and restaurant industry. Factors necessary to provide food, lodging, and facility services for meetings and special functions are included. Letter grade only (A-F). (Lecture/Discussion 3 hours)

375. Food Production Systems II (3)
Prerequisites: HFMH 175 and 275 or 276.
Quantity food operations are utilized to provide production and operational experiences – menu planning, costing, standardizing recipes, serving, merchandising, sanitation and safety. Commercial and non-commercial settings are used, such as, hospitals, restaurants, hotels, school districts, universities, plus others. Letter grade only (A-F). (Lecture - discussion 2 hours, Laboratory 3 hours)
376. Customer Service Management in the Hospitality Foodservice and Hotel Industry (3)
Prerequisites: HFHM 270.
Components of customer service management and guest relations in the foodservice and lodging industries are examined. Importance of quality customer service and its relationship to the success of operations in the industry will be covered.
Letter grade only (A-F). Fieldtrips and off-campus activities required. (Lecture-activity 3 hours)

378. Legal Issues in Hospitality Foodservice and Hotel Management (3)
Prerequisite: Upper division standing or consent of instructor.
The laws of foodservice and lodging are examined as they have evolved historically and as they exist today. Legal components of foodservice and lodging management will be covered. (Lecture-discussion 3 hours)

379. Field Studies in Hospitality Foodservice and Hotel Management (1-3)
Prerequisite: Upper division standing or consent of instructor.
A structured experiential learning course designed to expand professional experiences and to enhance the development of competencies required for successful performance in hospitality foodservice and hotel management. May be repeated to a maximum of 6 units. (Seminar 1-3 hours)

471. Hotel and Lodging Property Management (3)
Prerequisites: HFHM 372 or consent of instructor.
Management principles and practices applied to the management of hotel and lodging facilities. Strategies for maintaining hotels to ensure customer safety and satisfaction are included. Field trips required. Letter grade only (A-F). (Lecture-activity 3 hour)

472. Advanced Hotel Administration (3)
Prerequisites: HFHM 372.
Principles of organization, administration, and leadership in hotel and lodging operations are explored. Topics include organizational management, human resource management, productivity, marketing, financial management, and quality service management as they are applied to the hotel and lodging industry. Field trips are required. Letter grade only (A-F). (Lecture-activity 3 hour)

473. Beverage Management (3)
Prerequisites: HFHM 275 or 276 or consent of instructor, senior standing.
Overview of the beverage industry, identification, use, and service of wines and other alcoholic and non-alcoholic beverages, with an in-depth analysis of the various elements of beverage operations including purchasing, control, merchandising, and bar management. Field trips required. (Discussion 3 hours)

474. Cost Control in Hospitality Foodservice and Hotel Management (3)
Prerequisites: HFHM 275 or 276 or consent of instructor.
Financial management of food, labor, supplies, and other operational costs; procedures for controlling purchasing, receiving, storing, and issuing of food, beverage, and supplies; inventory and security management; computer applications; and analysis of financial reports in hospitality foodservice and hotel industry. (Lecture-discussion 3 hours)

476. Hotel and Restaurant Financial Management (3)
Prerequisites: ACCT 201 and HFHM 270.
Managerial and financial analysis of numerical data and reports used for planning, controlling, and decision making in the hotel and restaurant industry. Topics include ratio analysis, internal control, sales, revenue and cost management, cash control, budgeting, and feasibility studies as applied to the hotel and restaurant operations. Letter grade only (A-F). (Lecture-Activity 3 hours)

477. Foodservice Administration (3)
Prerequisites: HFHM 276 or 375 or consent of instructor.
Principles of organization and administration in commercial and non-commercial foodservice operations are explored. Includes food purchasing, receiving, storage, inventory control, marketing, organizational management, human resource management, productivity, financial management, and quality management as applied to the foodservice industry. Fieldtrips required. (Discussion 3 hours)

492J. Internship in Hospitality Foodservice and Hotel Management (3)
Prerequisites: Student must be a major or minor in Hospitality Foodservice and Hotel Management; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Hospitality Foodservice and Hotel Management; and HFHM 275 or 276 or 372, and 800 hours of approved work experience. Each prerequisite course must be completed with a grade of "C" or better.
Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student with supervisor must be approved by major advisor and form the basis for evaluation. May be repeated for 6 units maximum. (Seminar 3 hours)
HUMAN DEVELOPMENT
College of Liberal Arts

Chair: Shelley J. Eriksen
Department Office: Psychology (PSY) 205
Telephone: (657) 951-4344
FAX: (657) 951-4237
Website: http://www.csulb.edu/colleges/cls/human-dev/
Faculty: Jeffrey L. Davis, Shelley J. Eriksen, Beth Marke, Pamela Roberts, Heather Raw-Espinosa, Lauren Rauscher, Judith Stevenson, Katherine Van Giffin
Administrative Support Coordinator: Wendy Lopez
Undergraduate Advisor: Lauren Rauscher

Career Possibilities
Elementary or Secondary School Teacher • Occupational Therapist • Physical Therapist • Parent Educator • Health Educator • Student Services • School Administration • Social Work • Program Coordinator • Human Resources • Consumer Research • Health Administrator • Educational Counseling • Admissions or Academic Advising • Youth Program Specialist • Recreation Specialist • Community Organization Worker • Child Life Specialist • Training and Development Specialist • Senior Citizen Center Director • Gerontologist • Victim Witness Case Worker • Peace Corps Worker • Personnel Specialist • Teacher • Adoption Counselor • Marriage and Family Counselor • School Psychologist (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The field of Human Development studies lifespan development within societal and cultural contexts. Accordingly, Human Development is interdisciplinary, examining development primarily from the perspectives of its component disciplines: Anthropology, Biology, Psychology and Sociology.

The Human Development Department offers a B.A. in Human Development and supervises the Human/Child Development concentrations in the Liberal Studies Program. The B.A. program is structured to provide students with:
- a broad knowledge of lifespan human development,
- specific expertise in processes and contexts that affect development,
- methods to evaluate research and theory within human development, and
- practice in the real-world application of knowledge gained in the program.

Within these guidelines, the B.A. is flexible — students can choose courses that best fit their needs and goals.

Students choose from a wide variety of courses for their Foundation Area requirements. Foundation Area courses cover the components of Human Development — the biological, the psychological, and the social and cultural. Students interested in gerontology, for example, may choose to take courses like the Biology of Aging, Introduction to Gerontology and Culture and Aging as their Foundation Area courses, while students interested in child development generally choose different courses for those requirements. Careful selection of Foundation courses can allow students to complete a minor or certificate program (for example, the Gerontology Certificate or Child Development Minor), while completing their major.

In addition to their academic training, Human Development students are taught to apply their knowledge through a semester Practicum. For the Practicum, students typically volunteer in settings pertaining to their career goals. Because the career goals of our students vary, individual students usually are in different practicum sites, including elementary schools, human resource management offices, senior centers, physical therapy units and various social service agencies.

The faculty of Human Development are active researchers, who regularly include interested students in their research programs. Students who are considering graduate school have the opportunity to work as research assistants on a variety of projects and can help present the findings of these projects at professional conferences. Research experience of this type enhances the likelihood that students will be accepted into the graduate program of their choice.

Human Development graduates pursue a variety of careers. At the B.A. level, many take positions in the social services and business. A substantial number of students enroll in Teaching Credential Programs, while others have gone on to graduate school in: Applied Anthropology, Counseling, Criminal Justice, Developmental Psychology, Gerontology, Occupational Therapy, Physical Therapy, School Psychology, Social Work and other fields.

Human Development has an active student club, the Human Development Student Association (HDSA). The HDSA is open to all students enrolled in Human Development courses and has regularly scheduled meetings. Activities sponsored by this HDSA are diverse and include community service projects, sponsoring speakers and films, hosting student-faculty parties, and alumni events. HDSA activities are posted outside the Department Office.

More information on the Human Development Department can be obtained at the Department Office (PSY 205) and the department website. Students who wish to major in Human Development should seek early advising from the Undergraduate Advisor.

Bachelor of Arts in Human Development (code HDEVBA01) (120 units)

Requirements
Lower Division: 9 units from the following: ANTH 120, PSY 100, SOC 100 or HDEV 180.
Core Courses (24 units):
1. HDEV 250, 307, 320, 357, 360, 402 or 403, 470;
2. Twelve units from the following, including at least one course from each foundation area.
Biological: ANTH 318, 319; BIOL 301; H SC 420L, 421, 429L, WGSS 440;
Psychological: ED P 302, 305; COFS 311, 312, 314, 411, 412; GERN 400L, 485; HDEV 300L; PSY 331, 332, 333, 336, 351, 356, 360, 378, 370L, 438, 463;

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Sociocultural: ANTH 351, 413, 419, 421, 454, 475; ASAM 340, 381; AFRS 410; CHILS 340, 350, 415; CDFS 413; CERN 400; HDEV 300, 340, 379; SOC 320, 325, 351, 345, 346, 423, 464; WGS 401, 420. Students must earn a grade of at least "C" in all upper division major courses.

Minor in Human Development (code HDEVUM01)

The minor in Human Development may be combined with any major at CSULB except Human Development and Liberal Studies, Track II - Human Development Concentration. The minor in Human Development offers students an opportunity to supplement their education with an interdisciplinary study of lifespan development within societal and cultural contexts.

Requirements

A minimum of 7 courses, chosen in consultation with the Human Development Department Advisor, which must include:
1. HDEV 180 or ANTH 120 or PSY 100 or SOC 100
2. HDEV 250, 307, 320, 351, 360
3. One additional Human Development course chosen from HDEV 300, 340, 402, 405, 470.

All students in this minor must take at least 6 courses in Human Development. All students who complete another course as part of their major that is equivalent to a Human Development course (such as a statistics course equivalent to HDEV 250) must substitute another HDEV course for that one.

Courses (HDEV)

UPPER DIVISION

360. Death and Dying (3)
Prerequisites: Completion of GE Foundation, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100. Not open for credit to students with credit in HDEV 400.
Exploration of social, cultural, and individual aspects of death experience examined from historical, biological, legal, religious, and ethical perspectives. Deathwork, the dying experience, surivorship, ritual and grief examined in light of lifespan, cultural and gender diversity.

367. Approaches to Childhood Through Adolescence (3)
Prerequisites: Completion of GE Foundation, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100.
Biological, psychological, and sociocultural aspects in the growth of the individual from conception through early adulthood will be considered. Relevant topics and theoretical issues will be treated in an interdisciplinary manner.
Not open for credit to students with credit in NURS 307.

320. Research Methods in Human Development (4)
Prerequisites: ANTH 120 or PSY 100 or SOC 100 or HDEV 180.
Research methods in human development includes methods and models from anthropology, biology, psychology and sociology as applied to research.
Letter grade only (A-F). Lab 3 hrs; lab 2 hrs.

340. Families and Work: Life Course Processes (3)
Prerequisites: ANTH 120 or PSY 100 or SOC 100 or HDEV 180.
Examination of the historical transformations over time in Western societiees, but especially in the U.S., in the nature of work and how these changes have helped to reshape family forms, relationships, and processes.

357. Approaches to Adulthood Through Aging (3)
Prerequisites: Completion of GE Foundation, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100.
Biological, psychological and sociocultural aspects in the development of the individual from late adolescence or youth until death will be considered. Relevant topics and theoretical issues will be treated in an interdisciplinary manner.
Not open for credit to students with credit in NURS 357.

360. Cultural Foundations for Human Development (3)
Prerequisites: HDEV 307, 357. Prerequisite/Corerequisite: HDEV 320.
Examination of the human life cycle from a global and cross-cultural comparative perspective. Consideration of how the phases of human development (and the transitions between them) are contextualized and dealt with in a variety of sociocultural settings worldwide.
Not open for credit to students with credit in HDEV 401.

364. Interpersonal Skills in Human Development (3)
Prerequisites: HDEV 307 and 357.
Designed to develop interpersonal skills identified as necessary to have effective human relations. It includes a presentation of theory and research applicable to processes in interpersonal functioning and human relations. Didactic and experiential learning approaches.
Not open for credit to students with credit in HDEV 4348 or ED P 4348.

402. Development of Thought: Structure, Process and Cultural Influences Across the Life Span (3)
Prerequisites: HDEV 320 and 357.
Examination of theories and current research on the development of thought and problem solving across the lifespan and cross-culturally using a multidisciplinary approach. Specific topics include cognition, problem solving, intelligence, language and thought, understanding numbers, literacy and educational implications.

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403. The Acquisition of Culture: Socialization in Cross-cultural Perspective (3)
Prerequisites: HDEV 320, HDEV 360 or an equivalent upper-level cultural anthropology course (e.g. ANTH 414, 415, 419, 423, 424) and consent of instructor.
Examination of socialization as both a universal and culturally specific phenomenon. Topics include cross-cultural variations in teaching and learning, socialization of children and adult novices, socialization as key aspect of social and cultural reproduction and source of innovation and change.

470. Seminar/Practicum (4)
Prerequisites: HDEV 250, 301, 320, 351, 350, and consent of the instructor.
Provides for a sequence of observations and supervised participation with individuals in a variety of community agencies and/or educational settings. Practicum is supplemented by topical seminar discussions for two hours each week.
(Seminar 2 hrs, practicum 6 hrs.)

490. Special Topics in Human Development (3)
Prerequisites: HDEV 301, consent of instructor.
Topics of current interest in human development selected for extensive study.
May be repeated to a maximum of 6 units with different topics. Topics for a given semester will be announced in the Schedule of Classes.

499. Independent Study (1-3)
Prerequisite: Consent of instructor and Chair.
Student will conduct independent laboratory, field, or library research and write a report of the research.
May be repeated to a maximum of 6 units.
INFORMATION SYSTEMS
College of Business Administration

Department Chair: Robert Chi
Department Office: College of Business Administration (CBA) 426
Telephone: (562) 985-4093 (O) 985-5543 (F)
Faculty: Omer S. Bani, Lofth Brown, Christopher Carr, Robert T. Ohi, Michael Cheng, Mohammed B. Khan, Melody K. Kiang, C. Sophie Lee, Ying Liu, Khosrow Mosheivaziri, Thang Nguyen, Dee Bruce Sun, C.J. Watter, Yu-Ming Wang
Administrative Support Coordinator: Gordon Thompson
For MBA with Specialization in Information Systems, see Business Administration, Graduate Programs.

Career Possibilities
MIS Specialist • Computer Analyst • Computer Programmer • Systems Analyst • Telecommunications Specialist • Management Consultant • Other careers requiring computer skills
Applications Development Track - Business Systems Analyst • Applications Programmers • Support Specialists • Software Trainers • Database Designers • IT Administrators
Business Telecommunications Track - Telecommunications and Computer Network Specialists • Network Administrators
Electronic Commerce Track - Web Page Developers and Administrators • Webmasters
Decision Technologies Track - Business Analysts • System Support Managers and Consultants
(Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Business Administration
Requirements
In order to graduate with a business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.
1. ACCT 201; ECON 100, 101; BLAW 220; MATH 10B or 114, 115, and PHIL 170.
2. All business and pre-business majors shall demonstrate computer literacy and competency prior to taking junior and senior level courses. Requires one of the following:
   A. Passing score (70%) on the Computer Proficiency Examination (CPE)
   B. Completion of IS 233 with Credit (C) or "C" or better grade in a transfer equivalent course.
3. Upper Division:
   A. CBA 300; ACCT 310; ECON 333; FIN 300; BLAW 320; IS 300, 301, 310; HRM 360; MGMT 300, MKTG 300.
   B. MGMT 425 (Capstone) must be taken at CSULB as a senior and after the upper division prerequisites core courses have been completed (ACCT 310, FIN 300, MGMT 300, MKTG 300, IS 301).
4. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

Option in Management Information Systems (code IS__BS01) (120 units)
Prepares students for careers in Management Information Systems in business, education, and government. Emphasis on systems management, information process and analysis, and new uses of information technology. Fundamentals of business information systems, computer hardware, system and application software, telecommunications, electronic business, and decision support systems are included providing a solid foundation in this rapidly changing field. Curriculum is based on both the DPMA and ACM models.

Choose one of the following four tracks:
Applications Development Track
1. IS 340, 356, 380, 385, 456;
2. Three units selected from: IS 320, 464, 470, 480.
Business Telecommunications Track
1. IS 340, 356, 380, 456,456;
2. Three units selected from: IS 457 or 464.
Electronic Commerce Track
1. IS 340, 356, 380, 456, 484;
2. Three units selected from: IS 456, 480, 483, MKTG 437.
Decisions Technologies Track

Minor in Management Information Systems (code IS__UM01)
Requirements
1. IS 300;
2. 15 units selected from IS 320, 340, 343, 350, 385, 445, 455, 456, 464, 470, 480, 483, 484, and 485.

Courses (15)

LOWER DIVISION
233. Introduction to Computer Systems and Applications (3)
An introduction to the use of the Internet and e-mail, Windows, word processing, spreadsheet, and database applications; basic computer literacy.
Credit/No Credit grading only.

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300. Management Information Systems (3)
Prerequisite: IS 233 or equivalent.
Information systems concepts and components, contemporary organizational applications, development and management of information systems, and future trends. Computer-based team projects requiring integration and application of conceptual and skills-oriented information systems knowledge in business environment.
Letter grade only (A-F).

301. Business Communications (3)
Analysis of principles of collecting, organizing, analyzing, and presenting business information. Written and oral communications involving problem solving in the business management process.
Letter grade only (A-F).

301L Business Communications Writing Laboratory (2)
Prerequisite/Corequisite: IS 301 (a grade of "C" or better if taken previously); consent of instructor.
A remedial, writing-intensive laboratory for undergraduate business students who wish to develop the necessary writing skills for successful professional practice.
Letter grade only (A-F). May be repeated to a maximum of 4 units in different semesters.

310. Business Statistics I (3)
Prerequisite: MATH 108 or 114.
Application of statistics to business problems. Data collection and organization, probability theory, measures of central tendency and dispersion, hypothesis testing and estimation, simple regression, and correlation. Use of statistical software.
Letter grade only (A-F).

320. Quantitative Analysis for Business Decisions (3)
Prerequisite: MATH 114 or 108.
Application of quantitative analysis and computer software for solving business problems. Linear programming, integer programming, PERT and CPM inventory control, queuing models, quality control, number basis, transportation and assignment models, and simulation. Use of computer software.
Letter grade only (A-F).

340. Business Application Programming (3)
Prerequisite: IS 300.
Letter grade only (A-F).

343. Business Programming (3)
Prerequisite: IS 300.
Introduction to business computer programming. Use of C++ programming language to familiarize the student with proper programming style and practice.
Letter grade only (A-F).

355. Introduction to Business Telecommunications (3)
Prerequisite: IS 300.
Introduction to concepts and technology of telecommunications and networking in business and organizations. Basics of voice, data, image and video transmission. Fundamentals of networking, use of Internet technology and telecommunication regulation and standards.
Letter grade only (A-F).

380. Database Management (3)
Prerequisite: IS 300.
Introduction to database requirements, analysis and specification, SQL query formulation. Database implementation using relational database management system software, such as Oracle. Design of computerized business forms and reports.
Letter grade only (A-F).

385. Systems Analysis and Design (3)
Prerequisite: IS 300.
Introduction to current and emerging practices, concepts and methods of systems analysis and design. Development process models, requirements analysis and system modeling, conceptual and physical design, systems implementation and maintenance, project management and teamwork, roles and responsibilities of systems analysts.
Letter grade only (A-F).

410. Business Statistics II (3)
Prerequisites: IS 310 and 301.
A second course in business statistics. Sampling distributions, estimation, hypothesis testing, analysis of variance, linear regression and correlation analysis, multiple regression, non-parametric techniques, one-way and two-way analysis of variance, and time series forecasting. Use of appropriate software and spreadsheet modeling.
Letter grade only (A-F).

445/545. Internet Applications Development (3)
Prerequisites: IS 301, 343 or 340.
Design, management, and applications of Internet-based electronic business transaction systems. Special emphasis on Web homepage design and database-driven Web application development. Lecture, hands-on, software project and case studies.
Letter grade only (A-F).

455. Local Area Networks (3)
Prerequisites: IS 301, 355.
Technology and system development of local area networks. Network requirement analysis, design, implementation, and operation from user and network administrator perspectives. Network server management, wide area networks and Internet connectivity, and network security and control.
Letter grade only (A-F).

456. Systems Integration and Security (3)
Prerequisites: IS 301, 355.
Technology, application, operating system, infrastructure, and systems integration in internetworking and enterprise networking. Interoperability, mobile systems, multimedia, distributed and collaborative systems, network management, fault tolerance, security, and middleware. Case studies and hands-on activities.
Letter grade only (A-F).

457. Wireless Systems and Mobile Applications (3)
Prerequisites: IS 301 and 385.
Letter grade only (A-F).

464/564. Network Modeling and Simulation (3)
Prerequisites: IS 301 and 310.
Fundamentals of simulation methodology for performance and feasibility study of business models. Basic probability distributions, random number generation, model formulation, evaluating results, validation, waiting line simulation, and computer network performance measurement via simulation and use of computer software simulation packages.
Letter grade only (A-F).
470. Decision Support Systems (3)
Prerequisites: IS 301, 310, 380.
Use of information systems technologies to support decision making by managers. Emphasis is given to individual and group decision support systems, expert systems, and executive information systems.
Letter grade only (A-F).

480. Advanced Database Management (3)
Prerequisites: IS 301, 300.
Advanced approaches such as object oriented, data warehousing, and client/server methods to database applications and development. Use of entity-relationship analysis to identify objects. Development of relational database systems for a business. Application software development project using cutting-edge database technology.
Letter grade only (A-F).

483. Business Applications Using Java (3)
Prerequisites: IS 300, 301.
Development of business application using Java language. Tools and technologies including data types, program control, object classes and relationship, class inheritance, interfaces, polymorphism, inner classes, the relationship between superclasses and sub classes, event driven programming and socket-based communication in Java.
Letter grade only (A-F).

484/.584. Electronic Commerce (3)
Prerequisites: IS 300, 301.
Letter grade only (A-F).

485. Information Systems Project (3)
Prerequisites: IS 301, 380.
A comprehensive systems project of moderate complexity for a client-server environment using a team approach for requirements analysis, system design, and prototype creation. Project planning and management techniques.
Letter grade only (A-F).

495. Selected Topics (1-3)
Prerequisites: Consent of instructor and GPA of 3.0 or higher in major, IS 301.
Topics of current interest in the field as announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics.

497. Directed Studies (1-3)
Prerequisites: Consent of instructor and Department Chair; student must be on Dean's List with a GPA of 3.0 or higher in Management Information Systems.
Individual projects, research, or study in the option.
INTERDISCIPLINARY STUDIES
University Academic Programs

Associate Vice President for Undergraduate Studies:
Lynn Mahoney
Director, Undergraduate Program: Tim Caron
Office: LIB 214; Phone: (562) 985-2426
Director, Graduate Program: Cecile Lindsey
Office: BH 303; Phone: (562) 985-5225
Website: http://www.csulb.edu/divisions/aa/grad_undergrads/faculty

University Academic Programs is the administrative designation for a group of University-wide academic programs that are interdisciplinary in nature. The Interdisciplinary Studies program offers students the opportunity to develop unique individualized cross-disciplinary majors utilizing courses from appropriate departments at California State University, Long Beach. Each student, with the help of department faculty advisors, must select courses and focus his/her major on the basis of a unifying issue, theme or topic called an area of concentration. The area of concentration must meet three criteria to be acceptable:

- The area of concentration must be interdisciplinary. It must integrate and focus approaches and knowledge from at least two fields or disciplines. The principle of integration can be historical, regional, thematic or problem-focused.
- The area of concentration must not duplicate any existing major on campus or available at another Los Angeles basin CSU campus. The purpose of the Interdisciplinary Studies major is to create an individualized curriculum where no structured or formal program exists.
- The area of concentration must be feasible. Each student's proposed program must be discussed with faculty advisors to ensure that the range and number of courses required will be available.

The student must actively plan his/her program and cultivate relationships with assigned or chosen faculty. The student has the initial responsibility in shaping his/her program, with the guidance of the department advisors.

Bachelor of Arts in Interdisciplinary Studies (code IDSCBA01) (120 units)

The Interdisciplinary Studies Program is not a means of bypassing normal graduation requirements nor a means by which students may seek to graduate who have failed to gain admission to impacted programs nor to complete a degree major in which they are currently enrolled. Consequently, a candidate must apply for approval of an interdisciplinary Studies major when:

1. At least one full year of academic work (30 units) remains to be completed to meet minimum graduation requirements;
2. At least 2/3 of the upper-division (300-400) units in the proposed course of study remain to be completed at the time the application is submitted for approval, and
3. The cumulative GPA is 3.0 or better. A higher grade point average may be required if the Primary department in the Interdisciplinary Studies program of study is impacted or requires a higher GPA for transfer students.

4. An Interdisciplinary Studies program must be justified by legitimate career, academic, and/or professional goals commensurate with the broader mission of the University in baccalaureate education. Interdisciplinary Studies majors are considered on a case-by-case basis. Approval is determined on the basis of the academic merit of the proposed course of study, the proposal rationale, the applicant's potential, the potential addition of the resulting degree, and the ability of the University to support the proposed program. It is the student's responsibility to provide a clear written statement of the goals for his or her program of study, and the reasons these goals cannot be accomplished using an existing major, or combination of major and other available programs, and or concentrations of course work.

Procedures

1. To prepare for the initial interview:
   A. Review the CSULB Catalog Interdisciplinary Studies Program requirements.
   B. Meet with the ISP Director and consider your reasons for selecting an Interdisciplinary Studies major, including why a traditional major, double major, major and a minor, or other conventional educational pathway will not suffice. Discuss with the ISP Director what combination of courses in disciplines/departments you are interested in combining, and explain how this combination will:
      1) facilitate the achievement of your career and/or educational goals and objectives;
      2) provide you with an opportunity to obtain skills and knowledge not otherwise available at CSULB through conventional programs and degree options.

2. Meet with the department's undergraduate advisor, or in the absence of a department undergraduate advisor meet with the department chair from each prospective department from which you propose courses to combine in the IS major. With the guidance of these individuals, create a tentative program of study, subject to the ISP Director's approval.

3. Draft a program of study with the assistance of the Undergraduate Advisor and/or Chairs of the various departments from which courses for your program of study will be used. Arrange a meeting with the Department Undergraduate Advisor and the Department Chair of each of the respective departments. With their guidance develop a list of courses (a program of study) that will constitute your interdisciplinary Studies degree program. Obtain signatures of approval for the Program of Study from these respective Advisors/Chairs. Any subsequent changes must be made using the official Program Addendum forms.

4. Draft a three-to-four page proposal essay outlining the program of study you have created. State what you foresee will be the length of time you will need to complete your degree. Explain why no existing degree will assist you in terms of achieving your intended goals or propelling your future career.
5. Return your program of study along with your typed interdisciplinary studies proposal to the ISP Director. Completed programs must be signed by undergraduate advisors and chairs from all departments from which courses are taken in the Program of Study. The ISP Director is the final signatory on the Program of Study. Be advised that pending final approval of your interdisciplinary studies program, you should proceed with the course work for your previously declared major or with General Education and elective courses. You should delay taking courses that apply exclusively to your proposed Interdisciplinary Studies major until all signatures have been secured. Thus, in the event you are not accepted into the Interdisciplinary Studies program, you will not have impeded your academic progress.

Requirements
1. An interdisciplinary studies major consists of a maximum of four lower-division courses (100-200) and a minimum of 28 units of upper-division courses (300-400) totaling a minimum of 40 units in the program.
2. An Interdisciplinary Studies Program is based on a thematically cohesive core of classes involving significant work in two or more disciplines. A proposal must accompany the program and be signed by the faculty advisors when the program is submitted to the ISP Director for approval.
3. Interdisciplinary courses (1) taken to satisfy General Education requirements may be double-counted to most Interdisciplinary Studies Program unit requirements, if the program consists of more than 48 units of credit.
4. The maximum amount of course work that may be taken in one department is 60% of the total course work designated for the program.
5. Students may need more than four lower-division courses to prepare for the upper-division courses in their major. However, no more than four of these lower-division courses will be counted in the official program.
6. Students must maintain a 2.0 or better GPA in the program course work in order to remain in the major.
7. Each Program course and prerequisite course must be completed with a grade of "C" or better.

Bachelor of Science in Interdisciplinary Studies (code IDSCBS01) (120 units)

Requirements
The basic requirements and application procedures for the Bachelor of Science in Interdisciplinary Studies shall be the same as the Bachelor of Arts degree in Interdisciplinary Studies. The Bachelor of Science is awarded when the Primary department typically issues a Bachelor of Science degree.

Master of Arts (code IDSCMA01) and Master of Science (code IDSCMS01) in Interdisciplinary Studies

The Master of Arts or Master of Science degree in Interdisciplinary Studies permits students to earn an interdisciplinary master's degree when their special needs or interests cannot be met by an existing CSULB graduate degree program or a degree program at another CSU campus in the LA Basin. The Interdisciplinary Studies master's degree is not a degree divided between or among disciplines, but is a cohesive program of study, which integrates the methodologies, perspectives, and content of two or more disciplines. A master's degree in Interdisciplinary Studies must be justified by legitimate academic goals.

Acceptance of an applicant to an Interdisciplinary Studies master's program is based on such considerations as the academic merit and rationale of the proposed course of study, the applicant's potential for successful completion of a master's program, the potential application of the degree towards the applicant's career and educational goals, and the ability of the University to support the proposed study with faculty, curricula, and facilities. Candidates should carefully assess goals before considering this degree. The degree is administered by the Vice Provost for Academic Affairs and Dean of Graduate Studies serving as the Interdisciplinary Studies Graduate Director.

Prerequisites
The minimum requirements for acceptance to the Graduate Interdisciplinary Studies Program (ISP), in addition to general university requirements for post-baccalaureate admission, are as follows:
1. A Bachelor's degree from an accredited college or university.
2. Upper division or graduate level preparatory course work, as it is required by each department in the program of study. (Upper division units are CSULB 300-400 level courses or their equivalent at another institution; graduate units are CSULB 500-600 units or their equivalents at another institution.)
3. A grade point average of 3.0 in the baccalaureate degree or in the last 60 units of upper division and/or graduate course work completed at an accredited college or university. And a 3.0 average in all prerequisite course work listed on the Prerequisite Check Sheet for the Graduate Interdisciplinary Studies Program. Please note that lower division courses (CSULB 100-299 level courses, or their equivalent at another institution) must be excluded from qualifying G.P.A. calculations.
4. Submit Graduate Record Examination (GRE) scores from the three sections of the General Test taken within five years of applying to the Graduate Interdisciplinary Studies Program.

Acceptance to the Program
Those students who meet all program and University prerequisites for graduate study and whose Interdisciplinary Studies master's programs have been approved by the Vice President of Academic Affairs and Dean of Graduate Studies (Graduate Dean) will be admitted as Classified graduate students in the Interdisciplinary Studies program.

Procedures
Determine if you are eligible to apply to the Graduate ISP by consulting the ISP website: http://www.csulb.edu/divisions/aai/grad_undergrad/isp/. Make sure to keep a copy of all of your application materials for your own records. Application materials should be e-mailed to: Dr. Cecile Lindsay, Vice Provost for Academic Affairs and Dean of Graduate Studies, at clindsay@csulb.edu.
1. If you believe you meet the basic eligibility requirements to apply to the Graduate ISP, contact the Director of the Graduate ISP at least two months prior to the application deadline of March 30 via e-mail at the address shown below to submit an ISP proposal. The proposal should be a 3-5 page Word document detailing the conceptual framework of the program of study you envision. The proposal must address your graduate preparation for such study, as well as future career and educational goals. The program of study is designed to achieve the following:
2. The director will review the proposal in consultation with appropriate faculty. If you receive approval to apply, you must complete the California State University, Long Beach application through CSU Mentor (www.csumentor.edu)
3. Apply to the Graduate Interdisciplinary Studies Program by submitting the following materials to the Director of the Graduate Interdisciplinary Programs:
   A. The Prerequisite Check Sheet for the Graduate Interdisciplinary Studies Program, as completed in consultation with the Graduate Advisors in the primary
   and secondary departments/programs of interest.
   B. The student's proposed Graduate Interdisciplinary Studies Program of Study as completed in consultation with the Graduate Advisors in the primary
   and secondary departments/programs of interest.
   C. GRE scores from the three sections of the General Test, taken within five years of applying to the Graduate Interdisciplinary Studies Program.

Advance to Candidacy

Advance to candidacy is formally approved by the Vice Provost and Dean of Graduate Studies. Any modifications to the Student Program after advancement to candidacy require the approval of the Interdisciplinary Studies Graduate Committee and the Graduate Dean on an official Addendum to Program form to be obtained from the ISP website. Students must have advanced to candidacy at least one full semester prior to graduation, but should do as soon as possible.

The Interdisciplinary Studies Director will submit an Interdisciplinary Studies graduate student's program for advancement to candidacy when the following conditions apply:
1. Satisfactory completion of all prerequisite course work with a minimum 3.0 GPA (see item 3 in Prerequisites above) as well as any additional prerequisites (i.e., departmental qualifying exams);
2. Completion of a minimum of six units of graduate-level (500-600) program work with a 3.0 GPA;
3. Fulfillment of the Graduate Writing Assessment Requirement (GWAr);
4. Approval by the Graduate Dean of the completed Application for Thesis and Committee Form for thesis option programs;
5. Resolution of all incomplete grades (I) on the record;
6. A cumulative 3.0 GPA in all completed program work;
7. Current enrollment in University course work.

Requirements for the Master of Arts Degree

Graduate programs may be composed of graduate level (500-600) and upper division (400) undergraduate level course work.

The unique nature of an interdisciplinary program of study may require more than the minimum number of course units in order to assure academic integrity. Programs of Study in Graduate Interdisciplinary Studies frequently total 36 or more units; it is helpful to use the unit requirement of the primary department as a guide in determining an appropriate number of units for a proposed program.

The Graduate Interdisciplinary Studies Program of Study should consist of no less than 30 units of graduate (500-600) and upper division undergraduate (300-400) course work, including the following requirements:

1. No less than 70% of course work shall be at the 500-600 level. These must be done in residence at CSULB. Extension 500-600 level courses are not acceptable as part of the Graduate ISP.
2. The largest number of graduate units (~70%) shall be completed within a primary department. The primary department will be the degree-issuing department.
3. No more than three units of independent study in addition to thesis in a minimum 30-unit program. Exceptions to this regulation are as follows:
   A. Up to six units of independent study in addition to thesis may be permitted in a minimum 30-unit program when the projected studies are not to be taken in the same department; when the focus of each projected independent study is clearly distinct from the other (as evidenced on Independent Study Agreement Forms for each study to be submitted with all other application materials.);
   B. In excess of six units of independent study in addition to thesis may be permitted in cases when an Interdisciplinary Studies graduate program exceeds the minimum 30 units; when the focus of each independent study is clearly distinct from any others (as evidenced on Independent Study Agreement Forms for each study to be submitted with all other application materials). Programs with more than six units of independent study may be referred to the Interdisciplinary Studies Program Advisory Board for approval and recommendation.

4. Successful completion of a Thesis or Comprehensive Exam. The selection of the Thesis or Comprehensive examination option will be made by the student in consultation with the graduate committee and Graduate Dean. If such an option is available in the primary department identified in the Graduate Student Program of Study. If no option is available, the student will comply with the culminating requirements of the primary department.
5. Students writing a thesis must enroll for thesis credit in their primary department (the primary department identified in their Graduate Student Program of Study);
6. Students opting to write a thesis must identify a thesis committee by the beginning of their second full semester of graduate study, complete a thesis proposal form, and submit it to the Graduate Dean. The Thesis Committee must include a chair (from the primary department) and at least one representative faculty member from each of the disciplines included in the student’s Graduate Program of Study. A thesis committee shall contain no fewer than three members, at least two of which must be tenured-track CSULB faculty. The chair of the committee must be a tenured or tenure-track faculty member.

7. All requirements of the degree program must be completed within seven years of the date when the program was initiated (i.e., no course on the program at the time of graduation may be more than seven years old).

Requirements for the Master of Science Degree

The basic requirements and application procedures for the Master of Science in Interdisciplinary Studies shall be the same as the Master of Arts degree in Interdisciplinary Studies. One distinction, however, is commonly a requirement by the programs that issue a Masters of Science degree that the culminating activity be a thesis. Students will follow the exit requirements of their primary department.
For MBA degree requirements, see Business Administration, Graduate Programs.

Career Possibilities
Import/Export Agent • Foreign Sales Representative • Trade Broker • Buyer • Bank Manager • Financial Manager • Foreign Currency Investment Advisor • International Management Consultant • Relocation Consultant • Customs Broker

Undergraduate Programs

Bachelor of Science in Business Administration

Requirements
In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. ACCT 201: ECON 100, 101; BLAW 220; MATH 108 or 114, 115; and PHIL 160 or 170.
2. All business and pre-business majors shall demonstrate computer literacy and competency prior to taking junior and senior level courses. Requires one of the following:
   A. Passing score (70%) on the Computer Proficiency Examination (CPE).
   B. Correlation of IS 233 with Credit (C) or "C" or better grade in a transfer equivalent course.
3. Upper Division:
   A. CBA 300, ACCT 310, ECON 333; FIN 300; BLAW 320; IS 300, 301, 310; HRM 360; MGMT 300; MKTG 300.
   B. MG 425 (Capstone) must be taken at CSULB as a senior and after the upper division prerrequisite core courses have been completed (ACCT 310 or 320, FIN 300; MGMT 300; MKTG 300; IS 301).
4. Completion of International Business Option requirements.

Option in International Business (code FIN_BS02) (120 units)
The objective of the international business option is to prepare students for the increasingly competitive and interdependent international business world with which they must cope. There is great and growing need for American business school graduates to be better informed about how to compete and do business outside the U.S. as well as in the U.S. market where much of their competition is from foreign firms. Students need to learn how international business practices and customs differ from those in the U.S. They need some familiarity with a language other than English as well as knowledge of culture and world geography.

Requirements
1. ACCT 465; FIN 490; MGMT 405 or 406; MKTG 480.
2. Any one of the following courses: BLAW 424, CBA 454, HRM 465, MGMT 405 or 406 (whichever was not taken in satisfaction of requirement 1); or MKTG 481.
3. Two years (4 semesters or 6 quarters) finishing at the level of 201B (or its equivalent) at the baccalaureate level of one of the following languages: Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, or Spanish. Under individual, special circumstances, the Director of the International Business Option may approve a language other than those listed above to satisfy the language requirement for a degree in the option.
4. Choice of the language will determine the country or geographic area of the world about which the student must study a minimum of 2 courses (6 units).
These will be in lieu of 6 other elective units, and can be double counted as part of the student's general education requirement, if approved to meet GE requirements.

G.E. or Elective Courses
Select two courses (6 units), appropriate for your choice of language.

All Languages: ANTH 4121, COMM 330, 452, HIST 3171, 3181, 3191, 3551, LING 413, 425, 470, POSC 371, 485, WGS 4011.
Arabic: ARAB 250, CWL 402, GEOG 3091, HIST 394, 426, 452, POSC 367, RST 3311, 339.
French: CWL 330A, B, GEOG 316, HIST 335, 337, 339, POSC 353, FREN 335, 336 or courses taken at a specified French university with which CSULB has an exchange agreement and taught by instructors from CSULB may be approved by the Director of the International Business Program in partial or full satisfaction of this requirement.
Italian: CWL 330A, B, ECON 361, GEOG 316, HIST 335, 337, 339, POSC 353.
Russian: ECON 361, GEOG 316, HIST 341B, RUSS 310, 410.

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Undergraduate Certificate in International Business (code FIN_CT01)

Phenomenal growth of multi-national companies has been apparent in recent years, with increasing internationalization of the business world. Multi-national firms, governmental agencies, and varied international organizations express heightened demand for management personnel with a broad, global perspective. The Certificate in International Business, Undergraduate Program, combines an undergraduate degree in business with additional training in the area of international business beyond that normally included in a traditional business program. The objective of the program is to enhance the scope and perception of the business student to include the international business environment. Courses used to meet requirements for the Certificate in International Business may also apply toward College of Business Administration degree requirements.

Requirements
1. A bachelor of Science degree in Business Administration.
   This requirement may be completed concurrently with certificate requirements.
2. Eighteen units or more of study at this University in International Business to include six of the following:
   ACC 465; BLAW 424; CBA 300; CBA 484; FIN 490; HRM 458; MGMT 405, 406; MKTG 480 or 481.
3. Grade of "C" or higher required in each course completed.
4. The Certificate Program does not permit use of the Credit/No Credit option. Students with specific geographic areas of interest should consider development of language competence and cultural understanding relative to their area of interest concurrent with their Certificate Program. For additional information or for application to the program, interested persons may contact the Director of International Business Program.
INTERNATIONAL STUDIES
College of Liberal Arts

Director: Richard Marcus
Program Office: Social Sciences and Public Affairs (SPA) 257
Telephone: (562) 985-4704
Program Secretary: Nancy St. Martin
Telephone: (562) 985-4705
FAX: (562) 985-4579
Website: http://www.csulb.edu/depts/intst/

Faculty: Nelson Bamez (Sociology), Houri Borjian (History), Liptao Borouch (Geography), Norma Chinchilla (Sociology), Kenneth R. Currie (History), Larry N. George (Political Science), Richard Harvey (Political Science), Elaine Hagrini (Educational Psychology), Arnold Kaminsky (History), Paul Laris (Geography), Arturo Lazcano (History), Richard Marcus (International Studies), Elizabeth Phillipe (Women's Studies), Teresa Wright (Political Science)

Career Possibilities
Department Program Officer • Foreign Service Officer • Researcher • Teacher • Intelligence Analyst • Social Service Worker • Lawyer • Community Organizer • Journalist • Administrator (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Bachelor of Arts in International Studies (code I/STBA01) (120 units)

The Bachelor of Arts in International Studies is an interdisciplinary degree program designed to provide a rigorous introduction to the complex interrelationships that exist among societies in the modern world. It combines the study of international relations, global and development issues and contemporary belief systems with a concentration on a major world area. In addition, the degree aims to equip students with the skills in language, analytical thinking, research, and economic literacy that are necessary for graduate study and careers in international fields. Further, students in the International Studies program receive direct exposure to an international environment by participating in a foreign study program or an internationally related internship in this country. Because it is interdisciplinary, this program emphasizes the ways in which the expertise and methodologies of various disciplines contribute to the understanding and resolution of international issues.

The program provides a broad understanding of international issues and world cultures through exposure to the various methodologies of the social sciences and liberal arts. It offers pre-professional study for careers in government, communications, business, law, journalism, and international non-government organizations. Students are encouraged to combine a major in International Studies with a second major or minor in a field appropriate to their career plans.

All International Studies majors are required to develop a program of study in consultation with the program advisor. This program should be balanced among the participating disciplines in order to help the student develop a coherent emphasis in a world region and/or a topical area. Majors should choose their foreign language, foreign study or internship experience, and senior seminar research project to reflect this emphasis. The program director also advises about post-graduate study.

Requirements
A minimum of 45 units in a program approved by the International Studies advisor.

Requirements not included in major
Economic Literacy (units not included in total for major; may be fulfilled as part of General Education): ECON 100 and 101. Or, with prior permission of the International Studies Advisor, ECON 300 may be substituted for ECON 100 and 101.

Foreign Language: Three years of college level study or equivalent proficiency in a language appropriate to the program of study and geographic area concentration selected.

Major Requirements
Lower Division - 12 units: IST 200; and an additional 9 units chosen from the following: ANTH 120; HIST 212; GEOG 100 or 112; POSC 215 or 220.

Upper Division - a minimum of 33 units including:
• Cross-Cultural Communication: 3 units, chosen from: ANTH 412I, 413; COMM 330.
• Basics of International Relations: Select 6 units from the following: ECON 372; GEOG 470; HIST/IST 478; POSC 371, 378.
• Development Studies - 6 units, selected from: ANTH 307I; ECON 466; GEOG 468D; HIST 420I; JOUR 312I; POSC 461I; IST 317I, 318I, 319I, 355I; SOC 350; WIST 401I.
• Contemporary Belief Systems: 3 units selected from: ANTH 305I; ECON 313; POSC 306; R/ST 383; SOC 356.

Area Concentration
Choose 9 units from one of the following six areas:
• Asia: IST 300I, 301I, 310, 435I; ANTH 332, 333, 335; GEOG 314I; HIST 382B, 383B, 384, 388, 386, 407I, 488; POSC 302.
• Latin America: ANTH 323, 324; HIST 364, 462, 463, 466; CHHS 310; POSC 358, 481.
• Africa: AFRS 317, 330, 400, 460; GEOG 308I; HIST 391, 392.
• North Africa and the Middle East: GEOG 309I; HIST 431; POSC 367; R/ST 331I, 315.
• Eastern Europe and former Soviet Union: GEOG 318I; HIST 341B.
• Western Europe: FREN 440; GEOG 316; GERM 380, 410, 416; HIST 337, 339, 357, 437; POSC 353; SPAN 430.
• Internship or Foreign Study: (IST 492, 3 units) An internship or foreign study program related to the course of study selected, as approved by major advisor.
• Senior Research Seminar: (IST 490, 3 units) As approved by the director of the International Studies program.

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Minor in International Studies  
(code ISTUM01)

The Minor in International Studies consists of a minimum of 21 units at least 15 which must be upper division courses, together with at least two years of college level of study (or equivalent proficiency) in a language (other than English) relevant to the student's program of study in International Studies.

Requirements

Economic Literacy: Three units selected from ECON 100, 101, or with the consent of the International Studies advisor, upper division students may take ECON 300. (Units earned in satisfaction of this requirement may not be counted as part of the unit requirement in the minor.)

Lower Division: Three units of UST 200 and three units selected from ANTH 120, HIST 212, GEOG 100 or 160; POSC 215 or 220.

Upper Division: Three units selected from the courses grouped under Cross Cultural Communications or from the courses grouped under Contemporary Belief Systems as those groups are defined for the Bachelor of Arts degree in International Studies.

Either six units selected from the Courses grouped under Development Studies or six units selected from the courses grouped under Basics of International Relations as those groups are defined for the Bachelor of Arts degree in International Studies.

Six units selected from one of the geographic Area Concentrations defined for the Bachelor of Arts degree in International Studies.

Interdisciplinary analysis of social conflict in the world. Case studies will focus on globalization; technology; economic development; trade and aid; population growth; immigration; ideological, religious, ethnic, and gender conflicts; war and civil unrest; human rights; democratization; global citizenship; environmental sustainability.

Letter grade only (A-F). Same course as SOC 318L. Not open for credit to students with credit in SOC 318L.

319L. International Development (3)
Prerequisites: Completion of the G.E. Foundation, one Explorations course, upper division standing.

Theoretical and practical analysis of social, political, and economic development and alternative developmental models. Contemporary and historical comparisons of how “developed” and “developing” areas of the world have contended various economic, social, and political challenges.

Same course as GEOG 319L. Not open for credit to students with credit in GEOG 319L.

320. Migration and Modernity (3)
Prerequisite: Completion of all GE Foundation courses.

Examines global migration from 1700s-present, putting U.S. immigration history in context and emphasizing recent and contemporary trends. Uses history, politics, and culture (literature, photography, and film) to consider migration’s interactions with race, ethnicity, and nationalism.

Letter grade only (A-F).

355L. International Environmental Issues (3)
Prerequisites: Completion of the GE Foundation, one Explorations course, and upper division standing.

Examines the deterioration, destruction, maintenance and restoration of environmental systems and resources. Identifies and analyzes major environmental problems that have international dimensions. Investigates ongoing and potential efforts to resolve them.

Same course as GEOG 355L. Not open for credit to students with credit in GEOG 355L.

478. Foreign Relations of the U.S. (3)
Incorporates a global perspective and considers the influence of such issues as domestic politics, bureaucratic rivalry and decision-making, economics, and the role of special interest groups on the making of foreign policy.

Same course as HIST 478. Not open for credit to students with credit in HIST 478.

490. Senior Research Seminar in International Studies (3)
Prerequisites: Senior status or consent of the International Studies advisor and instructor.

Capstone research seminar for International Studies majors. Classroom preparation for directed research by students on a topic of their choice integrating international economics, international politics, cross-cultural communication, development studies, contemporary belief systems, language skills, and a geographic area.

Letter grade only (A-F).

492. International Studies Internship/Foreign Study (3)
Prerequisites: Consent of IST advisor; completion of a minimum of 15 upper division units required for the major in International Studies.

A qualified study abroad program or an internship with internationally-oriented, governmental, non-governmental, and for-profit organizations required of IST majors. Internship conducted under joint supervision of program sponsor and CSULB faculty. Final report required for internship.

Credit/No Credit grading only.

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493. Special Topics (1-6)
Prerequisite: Consent of instructor.
Analysis of contemporary issues and problems in International Studies.
Topics to be announced in the Schedule of Classes.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor
Individually directed studies of special problems in International Studies.
May be repeated to a maximum of 6 units with consent of program director. May not be credited toward the major in International Studies without written department consent in advance of enrollment. (Supervised) Letter grade only (A-F)
ITALIAN
College of Liberal Arts
Department of Romance, German, Russian Languages and Literatures

Department Chair: Lisa Vollendorf
The George L. Grazziadio Endowed Chair of Italian Studies
Program Director: Carlo Chiaramonte
RGRLL Language Coordinator: Markus Muller
Single Subject Coordinator for L.O.T.E.: Jean-Jacques Jura
Department Office: Academic Services, Room 509
Telephone: (562) 432-4318
Faculty: Carlo Chiaramonte, Clotilda Donato, Teresa Fiore, Aparna Nayak-Guerriero, Linico Velloso
Administrative Analyst/Specialist: Cindy McCarthy

Students desiring information should contact the department office for referral to one of the faculty advisors, Credentialed advisors, Undergraduate Advisor, Graduate Advisor.

Career Possibilities
Customs Inspector • Immigration Officer • Importer/Exporter • Foreign Service Officer • International Marketing Representative • Travel Guide • Social Worker • Linguist • Foreign Correspondent • Community Organization Worker • Lawyer • Librarian • International Student Advisor • Educator • Fresno Corps Worker • Interpreter • Translator • CIA/FBI Agent (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Italian Program exists thanks to an agreement between the Italian American community in the area and CSULB. This collaboration led to the establishment of the program itself as well as the Center for Italian Studies, named in honor of Mr. George Grazziadio. In acknowledging his Italian origins, his founding gift speaks to his desire to foster Italian Studies in Southern California. Since 2001 the Center has promoted the diffusion of Italian language, culture, and civilization through a variety of cultural events (lectures, conferences, film screenings, etc.) related to Italian and Italian-American Studies. Additionally, the Center offers a number of scholarships to study in Italy and regularly organizes workshops on Italian teaching. Its program of events, which gives students the unique opportunity to be exposed to Italian language and culture in its various facets outside the classroom, is often shaped in collaboration with Italian and Italian-American institutions and organizations in the area.

Bachelor of Arts in Italian Studies (code RGR_BA09) (120 units)
The BA in Italian Studies is a comprehensive program that provides students with a solid humanities-based grounding also applicable to professional fields outside of the humanities. Whereas Italian Studies continues to be a field of choice for students interested in Art, Art History, Music, History, and Comparative Literature, it is increasingly relevant for professions in Fashion, Design, and International Business. The Italian Studies BA Program connects Italy's traditional intellectual and artistic legacy with its dynamic development as a modern industrialized country renowned for combining taste and technological innovation. The job mobility and cultural exchange fostered by the European Community and fueled by the global economy at large have made Italian into a language with vast applicability: the currency of the Italian language worldwide is also reflected in its growth as a subject taught in the American school system. In light of this expansion, the Bachelor of Arts in Italian Studies is a wise choice for students who plan to pursue a teaching career that combines two foreign languages or one foreign language and another subject in the humanities.

In order to meet such diverse needs, the BA Program offers two concentrations: Italian Language and Culture and Interdisciplinary Italian Studies. Regular consultation with advisors is highly recommended to ensure the proper choice of courses in view of future professional careers or continuation of studies at the graduate level.

Students in the BA program are strongly encouraged to study abroad through the CSU International Programs; they can spend from an intensive summer to an entire academic year in Florence and study either at the CSU center and/ or at local academic institutions. While expanding their linguistic and cultural knowledge, through this full-immersion experience, they earn credits towards their degrees. In addition, the Italian BA Program at CSULB offers internship opportunities at Italian and Italian-American institutions in the area.

Once students have met the first- and second-year general language requirements, in the third year they take a common set of core courses in the target language (composition, grammar, conversation as well as literature, literacy analysis, and civilization). In the fourth year they choose between the two concentrations: students intending to earn the teaching credential select the first, Italian Language and Culture, and take all coursework in the Italian language; students interested in a more interdisciplinary approach may select courses from the variety of department offerings (Music, Political Science, Geography, Art and Comparative Literature) included in the second concentration, Interdisciplinary Italian Studies. Both tracks share a common core.

Requirements
The student must complete a minimum of 49 units as approved by Italian Studies Advisors.

One year of a second foreign language is required for the first concentration (Italian Language and Culture).

Lower Division
Competency in the Italian Language (16 units of lower division Italian; ITAL 101A, B, and 201A, B are required.

Some of these courses may be waived for students who have completed sufficient high school Italian or have proved intermediate-level proficiency. Native speakers of Italian may not enroll in ITAL 101A,B or 201A,B.

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Upper Division: A minimum of 33 upper division units selected as follows:

Basic Core (24 units): ITAL 310, 312A, 312B, 314, 335, 336, 340, 482.

Concentration I - Italian Language and Culture

One year of a second foreign language.

* Candidates who intend to teach Italian are required to take ITAL 414

Concentration II - Interdisciplinary Italian Studies
**Accepted only when syllabus include a good amount of Italian texts.

Electives and Other Courses

Close work with the advisor will enable majors in Italian Studies to design a comprehensive study plan for their entire CSULB experience and for life-long learning. General Education courses and electives should be chosen carefully to coordinate with the major.

Minor in Italian (code RGR_UM02)

The Italian minor can be taken in conjunction with any other major, and it is an excellent choice for students majoring in other Romance languages as well as in Art, Art History, International Business, Comparative Literature, Dance, English, History, Linguistics, Music or the Social Sciences. Besides grammar, composition and conversation classes, it offers courses in literature, civilization, cinema, and language history. The minor in Italian is open to any non-Italian major.

Requirements

Minimum of 18 upper division units,

Required (9 units) ITAL 312A, 312B, 314

Required (9 units) to be chosen from: ITAL 310, 335, 336, 340, 411, 414, 454, 462, 482, 490, 494, 499.

Single Subject Teaching Credential, Italian (code 154)

Completion of Concentration I (Language and Culture) of the Italian major meets the subject matter competence requirement for the Single Subject Preliminary Credential in Italian. Prospective students should consult the undergraduate Italian Advisor and the Languages Other Than English (LOTE) Program Advisor early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective teachers of Italian are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.cod.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

Requirements

Same as for the major in Concentration I (Italian Language and Culture) of the Italian Program.

Courses (ITAL)

LOWER DIVISION

101A. Fundamentals of Italian (4)

Prerequisite or Corequisite: Any Foundation course.

Practice in grammar, reading, pronunciation, writing, and conversation. For those who are just beginning the study of Italian or who have had one year of high school Italian. For non-native speakers only, and is not open to heritage speakers or native speakers of Italian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (4 hrs.) Course fee may be required.

101B. Fundamentals of Italian (4)

Prerequisite or Corequisite: Any Foundation course.

Continuation of ITAL 101A. Practice in grammar, reading, pronunciation, writing and conversation.

For non-native speakers only, and is not open to heritage speakers or native speakers of Italian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (4 hrs.) Course fee may be required.

201A. Intermediate Italian (4)

Prerequisite: ITAL 101B and completion of the Foundation requirement (or entering competency equivalent to ITAL 101B and completion or concurrent enrollment in at least one foundation course). For non-native speakers only, and is not open to heritage speakers or native speakers of Italian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (4 hrs.) Course fee may be required.

201B. Intermediate Italian (4)

Prerequisite: ITAL 201A and completion of the Foundation requirement (or entering competency equivalent to ITAL 201A and completion or concurrent enrollment in at least one foundation course). For non-native speakers only, and is not open to heritage speakers or native speakers of Italian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes. (4 hrs.) Course fee may be required.

214. Intermediate Conversation (3)

Prerequisite: ITAL 101B. Can be taken concurrently with ITAL 210A or 210B.

Designed to develop basic conversational skills and to prepare for more advanced work in ITAL 314.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students must formal prerequisites and/or competency equivalent for advanced study.

310. Introduction to Analysis of Italian Literature (3)

Prerequisite: Upper division standing in Italian or equivalent.

Explores literary terminology and the study of the primary genres in Italian literature through an analysis of exemplary texts. A brief overview of methodologies will also be introduced, i.e., structuralism, sociolinguistics, gender studies, formalism and deconstruction.

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312A. Advanced Italian I (3)  
Prerequisites: Upper division standing in Italian or equivalent. 
Review of grammatical principles with regular exercises and composition work for the development of increased mastery of the written language. 

312B. Advanced Italian II (3)  
Prerequisites: Upper division standing in Italian or equivalent. 
Review of grammatical principles with regular exercises and composition work for development of increased mastery of written language. 

314. Advanced Conversation (3)  
Prerequisites: ITAL 214 or consent of the instructor. 
Continuation of ITAL 214. More advanced use of spoken Italian to establish strong basis for correct and fluent proficiency in oral idiom. 

335. Survey of Italian Literature I: Middle Ages—Eighteenth Century (3)  
Prerequisites: Upper division standing in Italian or consent of instructor. 
Introductory study of the most important Italian literary works, authors, and movements of Italian literature from the Middle Ages to the Eighteenth Century. 

336. Survey of Italian Literature I: Nineteenth and Twentieth Centuries (3)  
Prerequisites: Upper division standing in Italian or consent of instructor. 
Introductory study of the most important Italian literary works, authors, and movements of Italian literature of the Nineteenth and Twentieth Centuries. 

340. Italian Civilization (3)  
Prerequisites: Upper division standing in Italian or consent of instructor. 
Multidisciplinary study of Italian culture from unification (1861) to present, special emphasis on last thirty years. Crucial historical moments analyzed for social and cultural impact on Italian custom and ways of thinking. Taught in Italian. 

411. Advanced Syntax, Grammar, and Stylistics (3)  
Prerequisites: ITAL 312B. 
Provides an in-depth study of written Italian. Vocabulary development and analysis and imitation of writing styles and forms will be emphasized. 

414. History of the Italian Language (3)  
Prerequisites: ITAL 312B. 
Examines the main developments in the transformation from Latin to Italian, and the debates on what constitutes the Italian language (questione della lingua) 1200—present, including the contributions of Dante Alighieri, Machiavelli, and Alessandro Manzoni. 

454. Italian Cinema (3)  
Prerequisites: Senior standing or consent of instructor. 
Overview of main movements and directors in the history of Italian cinema. Socio-political and aesthetic analysis will be adopted in reading films from the post-war period to the present. Letter grade only (A-F). Same course as FEA 454. Not open for credit to students with credit in FEA 454. 

462. Italian Women Writers (3)  
Prerequisites: Upper division standing in Italian or consent of instructor. 
Studies roles of women writers within history of Italian literature from Middle Ages through Renaissance to contemporary literature. Not open for credit to students with credit in ITAL 424. 

473. Masterpieces of Italian Renaissance Literature (3)  
Prerequisites: ITAL 310, 335, 336 or consent of instructor. 
Readings in Italian Quattrocento and Cinquecento thought to explore the revolution toward the "new learning" and the valorization of human ability, worldly matters, and secular culture. 

482. The Building of the Italian Nation (3)  
Prerequisites: ITAL 310, 335, 336 or consent of instructor. 
Explores literature that promoted creation and building of Italian nation from Middle Ages to present. 

490. Special Topics in Italian (3)  
Prerequisites: Upper division standing in Italian or consent of instructor. 
Study of a particular topic or aspect of Italian literature, language or culture. Specific topics to be announced in the Schedule of Classses. 
May be repeated to a maximum of 12 units with different topics. Course fee may be required. 

494. Internship in Italian (1-3)  
Prerequisites: Consent of Instructor and department chair. 
Field work in Italian, supplemented by readings and tutorials under the direction of a faculty member. Internships, small group discussion/teaching, and other assignments directed by a supervising faculty member. 
May be repeated to a maximum of 6 units. No more than 3 units may be applied to the major in Italian. 

499. Directed Studies (1-3)  
Prerequisites: Consent of instructor and department chair. 
Independent study under the supervision of a faculty member. 
May be repeated to a maximum of 6 units.
to pursue a career involving the Pacific Rim nations, to go on to post baccalaureate programs in the fields such as international affairs, business, law, journalism, public administration, or education, and/or to obtain a single subject teaching credential in Japanese.

The program is different from a traditional literature-oriented language program. It emphasizes pragmatic language studies aiming for acquisition of communication skills through communication-based instruction, and providing knowledge of language and culture to develop appropriate understanding and attitudes for intercultural communication. The program will be supported by a variety of discipline-specific courses as well as interdisciplinary courses in Anthropology, Art, Asian Studies, Asian American Studies, Business, Comparative World Literature, Economics, Education, Geography, History, International Studies, Linguistics, Philosophy, Political Sciences, Religious Studies, Speech Communication, and other programs offering Japan-related topics.

Planning a Program of Study

The student and undergraduate advisor should plan a coherent program that both fulfills the requirements of the major and covers the student’s areas of interest in allied fields outside the Japanese language.

Students with background in Japanese language competency gained through home use or through primary or secondary school work in the U.S. or Japan must take a placement test administered by the department.

Students are encouraged to study in Japan, either through the CSU Study Abroad Program or independently, after completing at least two years of study (or its equivalent) of Japanese at CSULB.

Residence Requirement for the Majors

At least five upper division courses required for the major must be completed successfully at CSULB. Students are encouraged, however, to complete up to a year of their language study in approved programs of study abroad.

Requirements

A minimum of 44 units is required, including at least 15 units earned in residence at CSULB. JAPN 101 and 102 are prerequisite to the major and may be satisfied by appropriate high school preparation or by examination.

Required courses includes 23 units core courses and 21 units electives from the following three areas: 1. language and language-related courses (12 units), 2. Japanese civilization courses (6 units), and 3. Japan-related or intercultural communication courses (3 units).

Lower Division Required Core Courses (8 units): JAPN 201, 202.

Upper Division Required Courses (36 units):

1. Core Courses (15 units): JAPN 301, 302, 311, 312, 451 (in Japanese);
2. Electives (21 units):
   A. Language and Language Related Courses - 12 units
      selected from: JAPN 350, 370, 371, 385, 421, 422,
      452, 453, 451, 462, 463, 471, 481, 490, 492, 497;
   B. Japanese Civilization (taught in English) - 6 units
      selected from: ANTH 335, A/JST 353, A/JST 470A/B,
      363, R/ST 344;
   C. Japan-Related or Intercultural Communication
      Courses – 3 units selected from: ANTH 307I, 412I,
      413, 490*, ASAM 330, 345, A/JST 300I, 301I, 310,
      320, 406A, 490*, 492, 495I, CWL 403, COMM 309,
      330, ECON 372, EDSS 450, HSC 420I, HIST
      382B, 406B, 478, 496*, JST 317I, 318I, 319I, 475,
      JOUR 312, PHIL 306, POSC 362, 371, 378, 469*,
      489, 490*, R/ST 341, SOC 350, WGS 401I, 406A.

*Special topics courses in departments which regularly offer topical
courses pertinent to this program.

Certificate in Japanese (code A/JSTC03)

The Certificate Program in Japanese offers students an
opportunity to develop spoken and written competency in
modern Japanese, and to acquire a broad introduction to
various aspects of traditional and modern Japan.

The program is designed for students who intend to
pursue a career in the private or public sectors, for
which knowledge of Japan and the command of the language
is useful or necessary, and also for students who intend to
pursue a graduate program in which such knowledge and
competency are required.

Requirements
1. A bachelor’s degree (may be earned concurrently with the
certificate);
2. 15 units of upper division level Japanese language
courses;
3. 12 units of Japan-related upper division work from at
least two disciplines. These units must be selected with
the approval by a member of the advisory committee.

Approved Courses
For Major in Asian Studies, Minor in Asian American
Studies, Certificate in Asian Studies and Certificate in Asian
American Studies:
A/JST 190, 290, 299, 301, 310, 311, 320, 393, 406AB, 441,
442, 443, 444, 449, 490, 492, 495I, 499, ANTH 332, 333, 335,
416*, 417*, 419*, 490; AH 113A-B, 466, 467, 468, 469,
470AB, 471, 497, 498; ASAM 205, 220, 260, 290, 299,
305, 310, 319, 330, 331, 332, 333, 334, 335I, 340, 345,
346, 347, 352, 360, 370, 380, 381, 401, 410, 490, 495, 499;
CWL 334, 350, 415, 419, 448*, 499; CHIN 101, 102, 201,
202, 250, 380, 391, 392, 391, 390, 390, 390, 410, 430AB,
431, 490, 492, 499; ECON 4902 ENGL 376; GEOG 120, 231,
324*, 497, HIST 382B, 383A-B, 384, 385, 386, 401I, 405, 406AB,
407I, 409, 488*, 495*, 498; JST 317I, 318I, 319I; JAPN 101,
102, 201, 202, 305, 310, 350, 370, 371, 421, 422, 421, 451, 461, 462, 463,
471, 491, 490, 492, 497, PHIL 306, 499; POSC 362, 364,
455, 469*, 485*, 497, 499; R/ST 103, 331I, 341I,
344, 351, 351, 352, 353I, 490*, 499; WGS 381I, 381, 381,
401I, 406AB, 490, 499.
* on an approved Asia-related topic.

Single Subject Credential in Japanese
(code 155)

The Japanese subject matter credential program at CSU
Long Beach is designed to provide students with linguistic
and cultural preparation and understanding of humanities
for personal, social, intellectual and cognitive development as
well as development of skills for economic self-sufficiency in
the ever-interwining world of global economy. It is intended to
produce educators prepared to teach Japanese with
the communication proficiency, critical thinking skills, and
sociocultural understanding essential for effective intercultural
communication as well as pedagogical knowledge and
training in teaching Japanese to diverse populations in our
society.

The program requires a minimum of 30 semester units
of upper division courses in Japanese as listed below under
the four subject categories: Language, Linguistics, Culture, and
Literature. Students should take 21 units of core courses and
9 units of electives. All upper division courses are conducted
in the target language and require completion or equivalent
of the four semesters of lower division Japanese language
courses.

All upper division language courses are designed to
develop competency in four skills and content. However,
JAPN 311 and 312 emphasize spoken Japanese at advanced
level, while JAFN 301 and 302 emphasize reading and writing
at advanced level. The content courses represent three areas of
study - Japanese culture, linguistics, and literature. The
culture courses provide an overview of Japanese history from
the prehistoric times to contemporary Japan, and an insight
into Japanese culture and society. The linguistics courses
introduce the sound, meaning, syntactic and discourse
structure of language, and offer a comparison of Japanese
and English as well as other languages. The literature course
introduces selected major literary works, which will provide
resources to cultivate literary appreciation and to develop
cultural understanding of Japan.

A grade of "C" or better is required in all courses
accepted for the Japanese program. The exit requirement is
"Advanced" level Japanese language proficiency.

In addition to meeting the subject matter competence
requirement for the Preliminary Credential, prospective
teachers of Japanese are also required to complete 44 units
of professional preparation in the Single Subject Program,
including student teaching. Students may begin the
professional preparation courses as early as the junior
year. With careful planning, it is possible to complete all of
the credential program courses, except for student teaching,
as an undergraduate. Courses may also be completed as post-
undergraduate. Refer to the Single Subject Teacher
Education section of this Catalog or the Single Subject
Credential Program website (www.ced.csulb.edu/single-
subject) for a description of the professional preparation
requirements, courses, and application procedures.

Prospective students should consult the Japanese Education
Advisor and the Languages Other Than English (LOTE)
Program Advisor early to plan their program.

The Japanese Subject Matter Program is being revised
to meet new state standards. When the revised program has
been approved by the Commission on Teacher Credentialing,
the new course requirements will be in effect and supersede
current requirements.

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Core Requirements

24 upper division units selected from the following areas:
1. Language: JAPN 301, 302, 311, 312;
2. Linguistics: JAPN 461;
3. Literature: JAPN 471 plus 421 or 370;
4. Culture: JAPN 451

Electives: a total of 6 units selected from at least two different areas in consultation with a program advisor based on the student's background, interest, and teaching plans.

Language: JAPN 421, 422;
Linguistics: JAPN 462, 463, 481;
Literature: JAPN 370, 371;
Culture: JAPN 350, 452;

Courses (JAPN)

LOWER DIVISION

Prerequisites: One GE Foundation course which may be taken concurrently; formal prerequisites and/or competency equivalent for JAPN 101.
Introduction to pronunciation, reading, writing, conversation, and structure of the Japanese language.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

102. Fundamentals of Japanese (4)
Prerequisites: JAPN 101; One GE Foundation course which may be taken concurrently, or formal prerequisites and/or competency equivalent for advanced study in Japanese.
Introduction to pronunciation, reading, writing, conversation, and structure of the Japanese language.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

201. Intermediate Japanese (4)
Prerequisites: JAPN 102; Completion of GE Foundation requirements, or formal prerequisites and/or competency equivalent for advanced study in Japanese.
Continuation of first year Japanese. Further development of listening, speaking, reading, writing, and communication.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

Prerequisites: JAPN 201; Completion of GE Foundation requirements, or formal prerequisites and/or competency equivalent for advanced study in Japanese.
Continuation of first year Japanese. Further development of listening, speaking, reading, writing, and communication.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

250. Japanese Anime and Manga (3)
Students examine, analyze, and discuss selected topics in Japanese culture and modern society by analyzing Japanese animation (anime) and printed cartoons (manga). Familiarity with Japanese language is desirable but not required.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

301. Advanced Japanese (3)
Prerequisites: JAPN 202 or its equivalent as determined by the instructor.
Study of modern spoken and written Japanese involving advanced patterns and expressions. Emphasis on reading comprehension, vocabulary building and idiomatic usage.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

302. Advanced Japanese (3)
Prerequisites: JAPN 301 or its equivalent as determined by the instructor.
Study of modern spoken and written Japanese involving advanced patterns and expressions. Emphasis on reading comprehension, vocabulary building and idiomatic usage.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

311. Advanced Spoken Japanese (3)
Prerequisites: JAPN 202 or its equivalent as determined by the instructor.
Advanced study in modern spoken Japanese and Japanese communication.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

312. Advanced Spoken Japanese (3)
Prerequisites: JAPN 311 or its equivalent as determined by the instructor.
Advanced study in modern spoken Japanese and Japanese communication.
Native speakers of Japanese who have completed compulsory education in Japan may not enroll.

350. Japanese Language, Culture, and Communication (3)
Study of Japanese language and culture through sociolinguistic perspectives. Exploration of the interrelationship between the language and culture by focusing on verbal and nonverbal communicative behaviors. Taught in English and Japanese.
Letter grade only for Japanese majors.

370. Japanese Literature in English Translation (3)
Prerequisite: Completion of GL Foundation requirements.
Readings in translation of representative works of major literary genres in Japan covering both the classical and modern periods. Previous knowledge of the language is highly desirable, but not necessary.
(Lecture-discussion 3 hours.)

371. Survey of Japanese Literature (3)
Prerequisite: JAPN 302 or Instructor consent.
Survey of the major literary works from Kojiki to contemporary Japanese authors. Students reflect on the predominant movements, genres, rhetorical devices, literary techniques, and writers of the works. Conducted in Japanese and English. Letter grade only (A-F).

385. Japanese Language and Culture for Heritage Learners (3)
Prerequisite: By consent of instructor or a placement test.
Designed to address the particular needs of students of Japanese as a heritage language, the course emphasizes individual learning to improve formal use of the language in listening, speaking, reading and writing, and cultural knowledge.
May be repeated to a maximum of 6 units in different semesters.
Letter grade only (A-F).
421/.521. Selected Readings/Writing in Japanese (3)
Prerequisites: JAPN 302 or consent of instructor.
Readings from a selection of contemporary materials including literary works, magazines, newspapers, instructional and technical materials.
Letter grade only for Japanese majors.

422/.522. Technical Japanese (3)
Prerequisites: JAPN 421 or equivalent.
Development of receptive and productive skills using authentic materials drawn from business, humanities, sciences, and others that will be selected according to students' interest.
Undergraduates register in JAPN 422; graduates register in JAPN 522. (Lecture) Letter grade only (A-F).

451/.551. Japanese Civilization (3)
Prerequisites: JAPN 302 or equivalents as determined by the instructor.
Introduction and exploration of characteristic features of Japanese civilization and culture through studying selected topics and themes in fields such as art, humanities, sciences, and social sciences.
Conducted in Japanese.
Letter grade only for Japanese majors.

452. Japan: Its Land, People and Culture (3)
Prerequisites: JAPN 302 or 312, or instructor consent.
Students will study the land of Japan and learn how the land's physical features have influenced its people and culture, including history, way of life, and language. Taught in Japanese.
Letter grade only (A-F).

453. Japanese Culture as Social Process (3)
Prerequisites: JAPN 302 and 350, or instructor consent.
Major features of Japanese culture and society are analyzed. Key characteristics of contemporary Japanese society are compared with Western society, emphasizing processes in common. Taught in Japanese and English.
Letter grade only (A-F).

461/.561. The Structure of the Japanese Language (3)
Prerequisites: JAPN 302 or equivalents as determined by the instructor.
Introduction to phonology, morphology, syntax, semantics and discourse of modern Japanese. Conducted in Japanese with some readings in English.
Letter grade only for Japanese majors.

462/.562. Contrastive Analysis of English and Japanese (3)
Prerequisites: JAPN 302 and JAPN 312, or equivalent as determined by the instructor.
Letter grade only for Japanese majors.

463/.563. Acquisition of Japanese as a Second/Foreign Language: Theory and Practice (3)
Prerequisites: LING 101 or 170, or JAPN 461, and JAPN 302 or Placement Test.
Theoretical and practical background of language acquisition of Japanese as a second/foreign language. Aims at building knowledge of current research and its pedagogical implications. Conducted in Japanese with some readings in English.
Letter grade only for Japanese majors.

471. Readings in Modern and Contemporary Japanese Literature (5)
Prerequisite: JAPN 371, or equivalent as determined by the instructor.
Readings of representative works of modern and contemporary Japanese literature including short stories, novels, diaries, memoirs, poetry, and excerpts from novels and plays. Taught in Japanese.
Letter grade only for Japanese majors.

481/.581. Principles and Practice of Teaching Japanese (3)
Prerequisites: JAPN 312, 318, 330, and at least one 400-level course, or equivalents as determined by the instructor.
Introduces Japanese language pedagogy in the U.S. with principles of second language acquisition, and explores linguistic/ pedagogical/curricular issues. Conducted in Japanese with some readings in English.
Letter grade only for Japanese majors.

490. Special Topics in Japanese (3)
Prerequisite: Consent of instructor.
Select topics related to advanced Japanese study.
May be repeated to a maximum of 6 units with different topics.

492/.592. Japanese Internship (1-6)
Prerequisites: Consent of instructor; completion of a minimum of 15 upper division units required for the major in Japanese.
Field work in Japanese under joint direction of activity sponsor and faculty.
Undergraduates register in JAPN 492; graduates register in JAPN 592. Credit/no credit grading only.

497. Directed Studies (1-6)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member.

GRADUATE LEVEL

521/.421. Selected Readings/ Writing in Japanese (3)
Prerequisites: JAPN 302 or consent of instructor.
Readings from a selection of contemporary materials including literary works, magazines, newspapers, instructional and technical materials.
Letter grade only (A-F).

522/.422. Technical Japanese (3)
Prerequisites: JAPN 421 or equivalent.
Development of receptive and productive skills using authentic materials drawn from business, humanities, sciences, and others that will be selected according to students' interest.
Undergraduates register in JAPN 422; graduates register in JAPN 522. (Lecture) Letter grade only (A-F).

551. Japanese Civilization (3)
Prerequisites: JAPN 302 or equivalents as determined by the instructor.
Introduction and exploration of characteristic features of Japanese civilization and culture through studying selected topics and themes in fields such as art, humanities, sciences, and social sciences.
Conducted in Japanese.
Letter grade only (A-F).

561/.461. The Structure of the Japanese Language (3)
Prerequisites: JAPN 302 or equivalents as determined by the instructor.
Introduction to phonology, morphology, syntax, semantics and discourse of modern Japanese. Conducted in Japanese with some readings in English.
Letter grade only (A-F).
562/462. Contrastive Analysis of English and Japanese (3)
Prerequisites: JAPN 302 and JAPN 312, or equivalent as determined by the instructor.
Letter grade only (A-F).

563/463. Acquisition of Japanese as a Second/Foreign Language: Theory and Practice (3)
Prerequisites: LING 101 or 170, or JAPN 461; and JAPN 302 or Placement Test.
Theoretical and practical background of language acquisition of Japanese as a second/foreign language. Aims at building knowledge of current research and its pedagogical implications. Conducted in Japanese with some readings in English.
Letter grade only (A-F).

581/481. Principles and Practice of Teaching Japanese (3)
Prerequisites: JAPN 302, 312, 350, and at least one 400 level course, or equivalents as determined by the instructor.
Introduces Japanese language pedagogy in the U.S. with the principles of second language acquisition and explores linguistic, pedagogical, socio-cultural issues. Conducted in Japanese with some readings in English.
Letter grade only (A-F).

592/492. Japanese Internship (3-6)
Prerequisites: Consent of instructor; completion of a minimum of 15 upper division units required for the major in Japanese.
Field work in Japanese under joint direction of activity sponsor and faculty.
Undergraduates register in JAPN 492; graduates register in JAPN 592. Credit/No Credit grading only.

695. Directed Readings (1-3)
Prerequisites: Consent of Graduate Advisor.
Readings in Japanese on an individual basis.
Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisites: Consent of Graduate Advisor.
Research in Japanese on an individual basis.
Letter grade only (A-F).
Minor in Jewish Studies (code HISTM02)

The Minor in Jewish Studies consists of a minimum of 19 units. Jewish Studies encourages undergraduate students to acquire the academic breadth and depth to comprehend the major issues, themes, and concepts of a culture and heritage that has had a distinct impact on world civilization. The interdisciplinary minor consists of courses in the area of disciplines, including literature, history, religion, geography, Hebrew language, and politics. Students will expand their understanding of the broader dynamics of the Jewish experience through different eras and geographical settings, both in Israel and the Diaspora.

Requirements

1. Required core courses: HIST 141.
2. At least three units from the following courses: CWL 342, CWL 344.
3. At least four units from the following courses:
   HEBW 101A, HEBW 101B.
4. At least three units from the following courses: HIST 304, HIST 347, HIST 348, HIST 393, HIST 428, HIST 431, HIST 432, HIST 470.
5. At least three units from the following courses: RST 310, RST 311, RST 312, RST 314, RST 315, RST 317, RST 319, RST 320A, RST 320B, RST 460.
6. The remaining three units to complete the minor may be satisfied through any of the courses listed above, or GEOG 309I, POSC 367, or other courses as determined by the advisor.

6. In the event that no course is available to satisfy a requirement of the minor, the missing course or courses may be substituted as determined by the program advisor.

Hebrew Courses (HEBW)

101A. Modern Hebrew (4)
Prerequisite or Corequisite: Any Foundation course.
Designed for non-native speakers. Introduces students to Hebrew and enables them to comprehend and communicate in Hebrew at increasingly complex levels.
For non-native speakers only, and is not open to heritage speakers or native speakers of Hebrew. For the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

101B. Modern Hebrew (4)
Prerequisite: HEBW 101A. Corequisite: Any Foundation course.
Continuation of HEBW 101A. Introduces students to Hebrew and enables them to comprehend and communicate in Hebrew at increasingly complex levels.
For non-native speakers only, and is not open to heritage speakers or native speakers of Hebrew. For the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
Bachelor of Arts in Journalism
(code JOURBA80) (120 units)

General Requirements

Computer Prerequisites to Entering Journalism Classes: All students entering journalism skills courses must be familiar with at least one established word-processing program at the level of at least 40 words per minute.

Professional Skills: JOUR 101, 120 and 311 are the basic writing and reporting courses for journalism, and are prerequisites for most upper division skills courses in the department.

Residency Requirements: Transfer students must complete at least 50 percent of their upper-division journalism units at CSULB. Journalism courses taken on another campus may not be substitued for CSULB journalism courses without the approval of the CSULB Department of Journalism.

Distribution of Units: Journalism majors may apply no more than 40 units of journalism courses toward the 120 units required for the degree of Bachelor of Arts. A minimum of 65 units must be in the traditional liberal arts and sciences — courses offered by the Colleges of Liberal Arts and the College of Natural Sciences and Mathematics.

With a minimum of 65 units of liberal arts, Journalism majors may elect up to 15 units outside Journalism and liberal arts and sciences in courses that fall into other categories. Often these are in areas such as business, the arts or health. No more than 15 units in such areas may count toward the 120 units required for graduation. Students should meet with a journalism adviser before declaring the major, the minor or a minor concentration.

Journalism majors are required to have a minor or a minor concentration. Each CSULB department defines its own minor, and those vary between 18 and 24 units. The minor concentration is composed of 15 units, usually two lower-division and three upper-division courses, and it is selected in consultation with a journalism adviser.

Students Interested in Pursuing the Single-Subject Credential in English/Journalism should consult the teaching credential adviser in the Department of English.

Specific Requirements

This degree program requires a minimum of 34 and a maximum of 40 units in the major, of which seven are lower division and 27 to 33 are upper division.

Lower Division: JOUR 101, 110 and 120.

Upper Division: JOUR 311, 430, 431, 495, two courses chosen from among 312, 315, 370, 412, 415, 418 and 494 and three courses chosen from among 300, 305, 310, 316, 320, 321, 331, 340, 374, 380, 382, 420, 422, 424, 440, 471, 473, 480 and 482. In addition, students may take up to five additional units chosen from either of the preceding two lists and/or JOUR 490, 498 and 499.

In addition to the "C" average in the overall major and the "C" average in the upper division major at CSULB, both of which are required by the University, journalism majors must earn a "C" or better in each of these core courses: JOUR 110, 120, 311, 430, 431 and 495.
Minor in Journalism (code JOURM01)
A minimum of 21 units including: JOUR 110, 120, 311, 430 and 431.

Courses (JOUR)

LOWER DIVISION

101. English for Media Writers (1)
Intensive review of grammar, word usage, spelling, and the principles of clear and concise writing for student writers who seek careers in the mass media. Letter grade only (A-F). (1 hour skills.)

110. Introduction to Mass Communications (3)
Prerequisites/Corequisites: One GL Foundation Course.
Origins, development and contemporary role of newspapers, magazines, radio, television, books, new media and films, and such related fields as advertising and public relations. Letter grade only (A-F). (Lecture/Discussion 3 hrs.)

120. Writing Across the Media (3)
Course provides introductory overview on writing techniques used in the print media, in broadcast media, in online media and in preparation of materials for media professionals by public relations practitioners. Focus is on writing news stories and meeting deadlines. Letter grade only (A-F). (Lecture 2 hours, Laboratory 2 hours)

220. Understanding News Media (3)
Prerequisite: Completion of the GE Foundation courses.
Examination of news media in the U.S. including print, broadcast and online news media sources, news narratives, methodologies, ownership patterns, value systems, thought processes, effects and trends.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students must formal prerequisites and/or competency equivalent for advanced study.

300. Beginning Photojournalism (3)
Prerequisites: JOUR 311 with a grade of "C" or better.
Introduction to photojournalism for newspapers, magazines, corporate communications, new media and public relations. Course covers types of photos needed for all aspects of editorial photography, including lighting, use of filters, working with subjects and the photo picture page. Letter grade only (A-F).

305. Media Design (3)
Prerequisites: JOUR 311 with a grade of "C" or better.
Gives students experience in design of printed and online materials. Examines theories, principles and techniques of contemporary media design. Covers historical roots of media design and acquaints students with use of photographs, illustrations, graphs, type and color in visual communication. Letter grade only (A-F).

310. Writing for the Daily Forty-Niner (3)
Prerequisites: "C" or better in JOUR 120, or consent of instructor.
Students cover a beat and/or write general assignment stories as well as produce online story packages for the Daily Forty-Niner newspaper and website. Letter grade only (A-F).

311. Reporting and Information Gathering (3)
Prerequisites: JOUR 120 with a grade of "C" or better.
Teaches students to report, gather, process and transform messages. Includes seeking sources in libraries, public records, books, magazines, journals, corporate reports, computer databases and personal interviews. Letter grade only (A-F).

312. Global News Media (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses and upper-division standing.
Analysis of world's news media with an emphasis on structure, ownership, social and political roles and the degree of government pressure and control. Particular attention paid to economic, political and mass media globalization and its effects on developing countries. Letter grade only (A-F). Course fee may be required.

315. Journalism as Literature (3)
Prerequisites: Completion of the GE Foundation, one or more Exploration courses and upper-division standing.
Set criteria for defining journalism and literature. Examines great journalistic work of the last 2,000 years, from Plutarch and Caesar to Addison, Steele and Swift, through Twain, Crane, Markham and Caruso, to Whitman, Updike, Didion and Tom Wolfe.

316. Feature Writing (3)
Prerequisites: JOUR 311 with a grade of "C" or better.
Covers the feature article for newspapers, magazines and online media. Discusses style, organization, human interest, use of quotes, leads and article ideas. Emphasis is on clear readable prose. Letter grade only (A-F).

320. Reporting Public Affairs (3)
Prerequisite: JOUR 311 with a grade of "C" or better.
News coverage of police, courts and city, county, state and federal government. Study and practice in methods of investigative reporting. Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

321. Introduction to Broadcast Writing (3)
Prerequisite: JOUR 311 with a grade of "C" or better.
Techniques for information gathering, scripting, selecting video and choosing sound bites for rows and feature stories. Letter grade only (A-F). Lecture two hours, Laboratory 2 hours.

331. Publication Editing and Makeup (3)
Prerequisite: JOUR 311 with a grade of "C" or better.
Study of methods in newspaper, magazine and online production and practice in preparing copy for publication, including editing, proofreading, headline writing, using photographs and other display materials, handling news service copy and basic page design. Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

340. Introduction to Online Journalism (3)
Prerequisite: JOUR 311 with a grade of "C" or better.
An introduction into the Internet and World Wide Web from the perspective of online journalism. Course provides an introduction to the basics of online publishing and writing. Students work with the tools and technologies to create their own websites and write content for the online environment. Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

370. Principles of Public Relations (3)
Public relations fundamentals: research, planning, communication and evaluation. Study of targeting special publics, the use of public relations tools, developing public relations programs and the importance of social responsibility. Letter grade only (A-F).
374. Written Communication for Public Relations (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 370.
   Students learn to write a wide variety of internal public relations
   materials, including backgrounders, position papers, proposals,
   letters, memos, speeches and crisis communication plans.
   Students develop a crisis communication plan for a nonprofit
   organization as a service-learning project.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

380. Advanced Photojournalism (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 300.
  Photographic reporting with a camera. In-depth study of
   photojournalism with emphasis on creation of photo story ideas,
   photo essays, and feature photos. Photo editing and layout as
   applied to newspapers, magazines, and online media.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

382. Radio News Production (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 321.
   Reporting, writing and editing news and feature stories for
   radio news program. Special emphasis is on radio production
   techniques.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

412. Theories of Mass Communication (3)
   Contemporary theories of mass communication. An overview of
   development of communication theory as it relates to mass media.
   Evaluation of theories of communication process through analysis
   of original research upon which theories were founded. Source,
   message, and audience effects of communication process.
   Letter grade only (A-F).

415. Minorities and the Media (3)
   Analysis of the issues pertaining to minorities (ethnic, racial,
   national origin, gender, sexuality, physical, age and mental ability)
   and how they interface with the mass media.
   Letter grade only (A-F).

418. Media History (3)
   Overview of development of mass media in the United States and
   around the world. Major media figures, trends and industries are
   examined. Examines how individuals' interpretations of past
   historical events affect their sense of the present and what should
   occur in the future.
   Letter grade only (A-F).

420. Investigative Reporting (3)
   Prerequisite: JOUR 311 with a grade of "C" or better.
   Students work in a reporter-editor relationship with instructor in
   researching and writing in-depth pieces on such complex issues as
   mass transit, air pollution, city government, poverty, crime, housing
   and drug abuse. Computer-assisted research and investigative
   and interviewing techniques stressed.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

422. Senior Media Production (1)
   Advanced work on Forty-Niner Publications as editors.
   Credit/No Credit grading only. May be repeated for a maximum of
   3 units in different semesters with consent of instructor.

424. Computer Assisted Reporting (3)
   Prerequisite: JOUR 311 with the grade of "C" or better
   Advanced techniques of new media research stressed.
   Development of skills in document retrieval and analysis
   discussed, with emphasis on publication of in-depth piece.
   Letter grade only (A-F).

430. Law of Mass Communications (3)
   Prerequisite: Junior or senior status.
   Principles and case studies of law of the press, radio, television,
   advertising, public relations and new media with emphasis on
   constitutional guarantees, prior restraints, libel, contempt, privacy,
   taxation, licensing, shield laws, free press vs. fair trial, copyright
   and other laws affecting the mass media.
   Letter grade only (A-F).

431. Mass Media Ethics (3)
   Prerequisite: Junior or Senior Status.
   Study of ethical codes and value systems used in writing,
   producing and presenting news in the United States. Philosophical
   foundations of moral theory and various approaches to ethical
   decisionmaking for journalists and other media practitioners.
   Letter grade only (A-F).

440. Writing for the Web (3)
   Prerequisite: JOUR 311 with a grade of "C" or better
   Understanding online journalism and tools and technologies
   necessary for online publication. Students develop skills in
   computer-assisted reporting methods to conduct online journalistic
   research. Students publish work on class website and other
   professional venues.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.
   Course fee may be required.

471. Public Relations Management and Campaigns (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 370.
   Students work in agency situation to develop a business proposal
   for client involving a formal written plan and oral presentation.
   Students serve as consultants and develop programs for a
   nonprofit organization as a service-learning project.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

478. Public Relations Case Studies (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 370.
   Case studies used to acquaint students with problems encountered
   when working in profit and nonprofit sectors. Emphasis placed
   on analytic planning, critical thinking and programmatic skills.
   Students develop research study examining a public relations
   issue in depth.
   Letter grade only (A-F).

480. Advanced Media Graphics and Photo Editing (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 365.
   Principles of graphics and picture selection for newspaper,
   magazine and online media. Emphasis on preparing material –
   written and visual – for use as single picture or layout presentation.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

482. Television News Production (3)
   Prerequisite: JOUR 311 with a grade of "C" or better, JOUR 321.
   Scripting, voicing, shooting and editing news and feature stories
   for cablecast student program. Special emphasis on videography
   and editing.
   Letter grade only (A-F). Lecture 2 hours, Laboratory 2 hours.

490. Special Topics in Mass Communications (1-3)
   Prerequisite: JOUR 311 with a grade of "C" or better
   Topics of special interest in mass communications selected for
   intensive study. Topics will be announced in the Schedule of
   Classes.
   May be repeated to a maximum of 6 units.

494. Research Methods in Mass Communications (3)
   Basic techniques of research in mass communications and
   mass media. Overview of theory building and hypothesis testing
   procedures as applicable to current problems in the mass
   communication field. Scientific methods, survey and experimental
   design, field studies, analysis of data.
   Letter grade only (A-F).

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495. Senior Seminar (3)
Prerequisite: JOUR 311 with a grade of "C" or better, senior status.
Analysis of issues and problems in journalism and mass
communications. Examines theoretical and applied issues
related to the media. Discussion topics may include international
communication, copyright, social responsibility, ethics, free speech
and journalism history, among others.
Letter grade only (A-F).

498. Internship (3)
Prerequisite: JOUR 311 with a grade of "C" or better, Junior or
senior status.
Work of an editorial or writing nature at least 10 hours a week with
a journalism or PR organization in the Los Angeles-Orange County
area. Work edited and evaluated by on-site supervisors. Regular
reports to faculty supervisor and meetings with supervisor.
Credit/No Credit grading only.

499. Special Projects (1-3)
Prerequisite: JOUR 311, with a grade of "C" or better, Journalism
Major only.
Advance approval of instructor; (permit required to enroll).
Research in the field of journalism in broadcast, newspaper,
magazine, public relations, advertising, new media or other related
fields. Students must meet once a week with instructor.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).
KINESIOLOGY
College of Health and Human Services

Department Chair: Sharon R. Guthrie
Department Office: Health and Human Services (HHS) 2, Rm. 105
Telephone: (661) 954-4051
Website: http://www.csulb.edu/collisions/health/departments/kines


Department Coordinator: Stacia Ticer

Career Possibilities
Allied Health Professions Programs: Certified Athletic Trainer • Education/Professor • Researcher • Certified Kinesiotherapist

Exercise Science and Fitness: Strength and Conditioning Coach • Education/Professor • Researcher • Exercise Technician • Fitness Specialist • Exercise Physiologist • Exercise Specialist

Physical Education Teacher Education (PETE): Physical Education • Adapted Physical Education Specialist • Sport Coach • High School Athletic Administrator • Education/Professor • Researcher

Sport Studies: Sport Coach • Education/Professor • Researcher • Mental Training Consultant/Sport Psychologist • Sport Manager • College Athletic Administrator

(For more information, see www.careers.csulb.edu.) Various entry-level training positions are available for graduates, regardless of academic discipline.

Introduction
The mission of the Department of Kinesiology is to facilitate wellness among individuals through the study and application of human movement principles across the lifespan and through the management of and participation in physical activity, exercise, and sport. This is accomplished by providing excellence in instruction, scholarship, and service through a multidisciplinary approach including: 1) programs at the undergraduate and graduate levels designed to prepare professionals in human movement, sport, and exercise-related careers; 2) courses that promote general education and interdisciplinary concepts; 3) activity courses and programs designed to induce physical, cognitive, and affective adaptations; and 4) specialized service programs for the community.

The Department's programs offer a course of study for students wishing to prepare for professional careers or related disciplines in physical education teaching (Adapted, Elementary, and Secondary), athletic training, fitness-wellness, exercise science, kinesiotherapy, sport psychology and coaching. The programs have been developed from physiological, psychological, biomechanical, and sociological principles. The Department also serves the needs of students completing majors in other fields who find that certain aspects of kinesiology are important to their professional objectives and personal interests. In meeting the educational needs of these students, the Degrees, Certificates, and Minor available in the Department of Kinesiology include:

- Bachelor of Arts in Kinesiology in two options
  - Bachelor of Science in Kinesiology in five options
  - Master of Arts in Kinesiology in four options
  - Master of Science in Kinesiology in four options
  - California Single Subject Preliminary Teaching Credential Programs in Physical Education (K-12)
  - Adapted Physical Education Specialist Credential (K-12)
  - Minor in Physical Education: Single Subject Credential Add-on
  - Wilderness Studies Certificate
  - Kinesiotherapy Certificate

The Department of Kinesiology, in addition to its Degrees, Certificates, and Minor, assumes the responsibility for the psychological, physiological, and sociological needs and interests of the college student through general education, interdisciplinary, and physical activity course offerings. Students enrolling in physical education activity courses assume responsibility for satisfactory health status appropriate to the class activity.

In addition to the degree requirements for the Bachelor of Arts in Kinesiology and the Bachelor of Science in Kinesiology, the Major must meet the following Department policies and requirements for University graduation:

1. Each major course and prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than a "C" is received must be retaken and successfully completed prior to enrolling in any other course for which it is a prerequisite.
2. Upper-division courses may not be waived by substitution or examination without Department petition and approval.
3. Department approval.

Undergraduate Programs

Bachelor of Arts in Kinesiology

Students pursuing a Bachelor of Arts degree in Kinesiology must complete lower division and upper division core courses and skill proficiency requirements plus courses in a specific area (Option). In meeting the requirements of this degree, the Department offers three specialized Options for study which permit students to develop a conceptual understanding related to human movement and to focus on preparation for one or more specific occupations. The student must demonstrate 1) physical skill proficiency, 2) knowledge of physical fitness, and 3) knowledge in the personal performance activity course completed according to the lower division core requirements for specific Options prior to graduation. A minimum of 120 units are required for graduation.

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Option in Adapted Physical Education – Teacher Education (code KPE_BA02) (120 units)

This Option is designed for the preparation of students seeking a California Single Subject Preliminary Teaching Credential in Physical Education (K-12) with a specialist credential in adapted physical education. The emphasis is placed on teaching public school physical education to students with disabilities in preschool through grade 12. The academic and professional course work is designed to provide students with philosophical, theoretical, and applied concepts of teaching adapted physical education.

Lower Division: BIOL 207, 208; PSY 100; KIN 149A, 237, 250, 253, 255, 257, 261, 264, 265, 266, 267, 268, 270.
Upper Division: KIN 300, 301, 312, 315, 320, 332I, 335, 343, 370, 380, 387, 388, 427, 460.

A fieldwork, field experience or internship course requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training; Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer, American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Completion of this Option meets Commission on Teacher Credentialing requirements for subject matter competence for the Single Subject Credential in Physical Education. In addition to subject matter competence, prospective teachers must complete professional preparation through the Single Subject Credential Program. Refer to the Single Subject Teacher Education section of the Catalog for details. Note: The Option in Adapted Physical Education – Teacher Education is being revised to meet new state standards for subject matter competence for physical education teachers. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements for the Option in Adapted Physical Education – Teacher Education will be in effect and supersede current requirements.

Option in K-12 Physical Education – Teacher Education (code KPE_BA04) (120 units)

This Option is designed for the preparation of students seeking a California Single Subject Preliminary Teaching Credential in Physical Education (K-12). The emphasis is placed on teaching public school physical education to students in grades 6 through 12. The academic and professional course work is designed to provide students with philosophical, theoretical and applied concepts of teaching secondary school physical education.

Completion of this Option meets the subject matter competence requirement for the Single Subject Credential in Physical Education (code 175). In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Physical Education teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website (www.csu.full.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the department's Physical Education Advisor early to plan their program.

The Physical Education Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

Lower Division: BIOL 207, 208; PSY 100; KIN 149A, 237, 250, 251, 253, 256, 257, 261, 264, 265, 266, 267, 268, 270.
Upper Division: KIN 300, 301, 312, 315, 320, 332I, 335, 343, 370, 380, 457, 460, 461, 477.

A fieldwork, field experience or internship course requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training; Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer, American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Bachelor of Science in Kinesiology

Students pursuing the Bachelor of Science degree in Kinesiology must complete the course requirements and the physical fitness proficiency of each Option. Students may select their area of specialization from the Options described below. These Options develop a student who has an integrated conceptual understanding of the discipline and its relationship to human movement. Each Option focuses on foundation preparation for a specific occupation or graduate work.

Option in Exercise Science (code KPE_BS01) (120 units)

This Option is designed primarily for those students interested in careers in exercise physiology, biomechanics, or motor control/learning as well as those students contemplating graduate work in those areas or one of the health professions, e.g., physical therapy.

Requirements

Core Courses: BIOL 207, 208; KIN 300, 301, 312.
Lower Division: MATH 113 or higher; CHEM 111A, 111B; KIN 203; PHYS 100A, 100B, PSY 100.
Upper Division: KIN 405, 441; KIN 430 or 431; KIN 483 or BIOL 260; Select three courses from KIN 339L, 462, 465, 466.
*If not taken as one of the major required upper division courses.
A fieldwork, field experience or internship course requires current certification in First Aid (American Red Cross); Community First Aid & Safety or Emergency Response or Workplace Training; Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Fitness (code KPE_BS02) (120 units)

This Option is designed for students interested in careers in the fitness industry, e.g., fitness director, manager, program specialist, coordinators, personal trainer, or group instructors in corporate, commercial, YMCA, or other public/private facility.

Core Courses: BIOL 207, 208; KIN 300, 301, 312.
Lower Division: KIN 115; PSY 100 and seven physical activity units distributed over a minimum of two activity categories:
- Aquatics: KIN 125A, 125B, 237;
- Combatives: KIN 106A, 148A, 149A;
- Dance: KIN 182, 280;
- Upper Division: KIN 332, 335, 339, 363, 364, 367, 389, 405, 417, 469, 470, 493, 498D.

Elective Courses: Select twelve units from the following courses: NUTR 439, H SC 421, 423, 427, 429; KIN 207, 309, 315, 332*, 335*, 462, 465, 495; REC 421, 423, 425, 427.

* If not taken as one of the major required upper-division courses.

A fieldwork, field experience, or internship course requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training; Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Kinesiology (code KPE_BS03) (120 units)

This Option is designed primarily for those students interested in careers which provide therapeutic physical activities in rehabilitation settings including clinics, hospitals, schools, universities, convalescent homes and other private and public institutions. Students interested in certification by the American Kinesiology Association (AKTA) must complete additional requirements. Please consult the Department Coordinator and the Kinesiology Certificate Program for additional information.

Supplementary Criteria for Admission

In the California State University, an undergraduate major is designated as impacted when the number of applications received the first month of the filing period is greater that the available spaces. Such degree majors are authorized to use a pre-major code and supplementary admission criteria to screen applicants. The Option in Kinesiology is an impacted program and has the following supplementary admission criteria.

To be eligible for admission to the Bachelor of Science in Kinesiology Option in Kinesiology, applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must not meet requirements for admission to the university as a freshman or transfer student. Applicants must have completed the following prerequisite courses, each with a grade of "C" or better: BIOL 207, BIOL 208, PSY 100, and KIN 210 or their equivalents. Applicants must have completed PSY 200 or its equivalent with a grade of "C" or better. Applicants must have completed a minimum of 100 hours of observation or active participation in a therapeutic or rehabilitation setting. Applicants must submit a supplemental application to the CSULB Department of Kinesiology by February 1 for the fall semester or by October 1 for the spring semester. The supplemental application is available from the KIN Department Office or the KIN web site (www.csulb.edu/ kpe). The supplemental application must be accompanied by 3 letters of recommendation, one letter must be from the therapeutic or rehabilitation setting noted above. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on cumulative grade point average, with a minimum of 2.75.

Requirements

Core Courses: BIOL 207, 208; KIN 300, 301, 312.
Lower Division: PSY 100, 110, 141, 200; KIN 210, 217, 263, and six activity units selected from the following:
- Upper Division: GERN 400 or BSN 301; HHS 374; KIN 309, 315, 320, 332 or 335, 427, 489F; PSY 341, 370.

A fieldwork, field experience or internship course requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training; Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Sport Psychology and Coaching (code KPE_BS04) (120 units)

The Option in Sport Psychology and Coaching has two Concentrations – one in Sport Psychology and one in Coaching. The course work for both concentrations is the same except for the activity courses and the elective courses. The Option is designed for students interested in careers in: 1) sport psychology; and 2) coaching outside the public school system (K-12), e.g., coaching professional athletes, coaching youth-sport athletes, and coaching in sport academies.
Core Courses: BIOL 207, 208; KIN 300, 301, 312.


Upper Division: KIN 315, 332I, 335, 339I, 472, 475, 478; PSY 356.

Elective Courses for the Concentration in Sport Psychology: Select 15 units (minimum 6 units from KIN and 6 units from PSY) from the following courses: HHS 374; HSC 427; KIN 338, 471, 489A, 495, 497, 499; PSY 301, 332, 355, 370, 373, 475.

Elective Courses for the Concentration in Coaching: Select 12 units (minimum 6 units from KIN) from the following courses: COMM 305, 335, 411; HSC 427; KIN 338, 462, 489A, 495, 497, 499; MTEC 300, 339; REC 321, 322, 324, 340, 427; PSY 351, 453; Select 3 activity units from the following: KIN 250, 253, 255, 257, 264, 266, 267, 268.

A fieldwork, field experience, or internship requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training: Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Athletic Training (code KPE_B505) (120 units)

This Option is designed for students interested in an athletic training career in the specialization of injury and illness prevention, assessment, treatment and rehabilitation for athletes and all physically active people, including the general public. A National Athletic Trainers' Association Board of Certification, Inc. (BOC) certified athletic trainer works in physicians offices, rural and urban hospitals, hospital emergency rooms, urgent and ambulatory care centers, military hospitals, physical therapy clinics, high schools, college universities, commercial settings, professional sports teams and performing arts companies. A minimum 120 units are required for graduation.

The athletic training Option presents students two paths of educational study. One path of study offers students an overview of athletic training courses that may be applied to related allied health programs. The second path of study prepares a student for a career in athletic training. In addition to the Option's course work, for a student to be eligible to take the National Athletic Trainers' Association Board of Certification, Inc. (BOC) examination, the completion of a two-year program in clinical education is required. The BOC requires the student to be a graduate from a college or university with an accredited athletic training program, then talk and pass the exam administered by the Omaha-based Board of Certification.

The Athletic Training Education Program (ATEP) is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Students interested in the CAATE accredited Athletic Training Education Program and/or certification by the Board of Certification (BOC) should meet with the Program Director for Athletic Training Education for additional information.

Supplementary Criteria for Admission

In the California State University, an undergraduate major is designated as impacted when the number of applications received the first month of the filling period is greater than the available spaces. Such degree majors are authorized to use a pre-major code and supplementary admission criteria to screen applicants. The Option in Athletic Training (code KPE_B505) is an impacted program and has the following supplementary admission criteria:

To be eligible for admission to the Bachelor of Arts in Kinesiology, Option in Athletic Training, applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met requirements for admission to the university as a fresh, transfer or equivalent. Applicants must have completed the following prerequisite courses, each with a grade of "C" or better: BIOL 207, BIOL 208, and PSY 100. Applicants must have completed KIN 207 (Prevention and Care of Athletic Injuries) with a grade of "B" or better or the equivalent of these courses. Applicants must have completed a minimum of 150 hours of athletic training experience. At least 100 of these hours must be attained by participation in a traditional athletic training setting under the supervision of a NATABOC-certified athletic trainer. A maximum of 50 of these hours may be attained in an allied clinical setting, such as sports medicine clinics, summer sports camps, sports performance facilities, hospital facilities, or dance performance centers. Applicants must show proof of current First Aid (Community) certification, CPR (Community) certification, and AED certification. Applicants must submit a supplemental application to the CSULB Department of Kinesiology by February 1 for the fall semester or by October 1 for the spring semester. The supplemental application is available from the KIN Department Office or the KIN web site (www.csulb.edu/kpe). The supplemental application must be accompanied by 3 letters of recommendation; one letter must be from the athletic training setting noted above. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on cumulative grade point average.

Requirements

Core Courses: BIOL 207, 208; KIN 300, 301, 312.

Lower Division: CHEM 100 or 111A or 114; NUTR 132; HSC 210; KIN 207, 263; PHYS 100A; PSY 100; BIOL 250 or MATH 105 or 106.


A fieldwork, field experience, or internship course requires current certification in First Aid (American Red Cross: community First Aid & Safety or Emergency Response or Workplace Training: Standard first aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.
Adapted Physical Education Specialist Credential (code 490)

This program is designed for students interested in the administration and implementation of physical activity programs for persons with disabilities. Completion of this credential authorizes the California Adapted Physical Education Specialist Teaching Credential.

Requirements
1. Bachelor's degree with a teaching major in Kinesiology;
2. Must be obtained concurrently or after completion of K-12;

Minor in Physical Education Teaching (code KPE_UM01)

The minor in Physical Education Teaching is available to any non-Kinesiology major. This minor is designed for those students who are striving for an additional credential. With completion of this minor, the University will recommend the additional credential in Physical Education.

Requirements
A minimum of 34 units as follows: BIOL 107 and KIN 301 or BIOL 208 and KIN 300; KIN 315, 343, 370, 380, 460, 483; EDSS 300P; Eight physical activity units including: KIN 257, 265, 290 or 257; 253 or 255; 264 or 268; 266 or 267; 270.

In addition to the above, each student is required to demonstrate skill proficiency at an average of 3.5 level on a 5 point scale in KIN 343 and the 8 physical activity units completed to satisfy requirements for this minor. Only physical skill proficiency scores in the range of 2.0-5.0 are recorded and computed to determine a student's physical skill proficiency average.

Concentration in Physical Education Elementary Teaching

Requirements
A minimum of 21 units as follows: KIN 301, 312, 315, 370, 427, 476, 477.

Concentration in Physical Education Coaching

Requirements
A minimum of 20 units as follows: KIN 301, 207, 332; a minimum of 11 units selected in consultation with appropriate Kinesiology Advisor from the following: KIN 363, 475, 489B.

Certificate Programs

The Department of Kinesiology offers two different certificate programs each of which is related to a special emphasis provided in the curriculum. All certificate programs are open to students enrolled in the University who meet general admission requirements as follows:
1. Completion of 30 hours of course work;
2. A minimum 2.75 GPA in all completed course work;
3. Admission application and approval by a faculty committee in the certificate program selected.

Wilderness Studies Certificate (code KPE_CTO2)

This program is designed to develop leaders who can provide safe and challenging situations for individuals seeking self-fulfilling experiences in wilderness environments. The program of study will enable the student to acquire appropriate knowledge and skills, and to develop a personal philosophy reflecting understanding and concern for the protection of the environment and safety of participants in wilderness activities.

Requirements
1. Wilderness First Responder (WFR) Certification (50 hours)
2. Resume of Outdoor Experiences
3. Coursework (30-32 units): BIO 100; KIN 242, 244, 246A, 247A, 446, 449K; REC 427. Select three of the following: KIN 243A, 243C, 245; REC 430.

Kinesiotherapy Certificate (code KPE_CTO4)

This program is designed to prepare the student to pass the American Kinesiotherapy Association (AKTA) Certification Test. AKTA certification will qualify the therapist to provide therapeutic physical activities in rehabilitation settings including clinics, hospitals, schools, universities, convalescent homes, and other private and public institutions or in private practice. The student will complete the Kinesiotherapy Option in the undergraduate curriculum plus 27 additional units. Information concerning the certificate can be obtained from the Director of the Kinesiotherapy Program in the Department of Kinesiology.

Students seeking National Kinesiotherapy Certification need to complete the Undergraduate Option in Kinesiotherapy, the Undergraduate Kinesiotherapy Certificate, plus 12 post-baccalaureate internship units with consensus of the Kinesiotherapy Advisor.

Requirements
1. Admission application and approval by Director;
2. Completion of the degree requirements of the Bachelor of Science: Option Kinesiotherapy;
3. Specialization course work requires a "B" grade average for AKTA Certification;
4. Course work: BIOL 107 or GERN 4001; HSC 210 or 411A or 411B or 427; KIN 210, 309, 320, 405 or 499, 427, 438/538, 488/588, 485, 489F, PSY 341.

Graduate Programs

Two degree programs are available to the student: Master of Arts degree in Kinesiology with five options and Master of Science degree in Kinesiology with four options. The student may select the thesis/project track or the comprehensive examination track. The student who chooses the thesis/project track is required to complete a thesis or a project. The student who chooses the comprehensive examination track is required to take KIN 665. The minimum unit requirement for the MA degree major program is 30 units for thesis/project students and 36 units for comprehensive examination students. The minimum unit requirement for the MS degree major program is 33 units for thesis/project students and 39 units for comprehensive examination students.
Admission Criteria
1. A bachelor's degree from an accredited institution with a major in Kinesiology/Physcial Education or the equivalent;
2. If a prospective graduate student has a baccalaureate degree in a field other than Kinesiology or Physical Education, the student may be required to take prerequisite or foundational upper-division undergraduate coursework in Kinesiology. Students must consult with the Associate Chair for Graduate Studies and/or major advisor before enrolling in foundational courses. The courses, which vary depending on the student's academic background and Option, may be taken at CSULB or another college/university. All foundational coursework must be completed prior to Advancement to Candidacy;
3. An overall undergraduate GPA of 2.5 or better and an upper division Kinesiology/Physical Education major GPA of 2.75 or better;
4. A minimum cumulative score of 450 on the verbal, 450 on the quantitative and 3.5 on the analytical writing sections of the Graduate Record Examination.

Advancement to Candidacy
1. Completion of the general University requirements for advancement to candidacy;
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
3. A graduate program must have approval of the student's advisor, Department Associate Chair for Graduate Studies, and Associate Dean of Graduate Studies, Research, and Faculty Affairs for the College of Health and Human Services.

Master of Arts in Kinesiology
Five Options are under the Master of Arts degree in Kinesiology and are described below. The core courses for thesis students are KIN 590, 696, and 698. The core courses for comprehensive examination students are KIN 590, 695, and 696.

Option in Adapted Physical Education
(code KPE_MA04)
This Option is designed to provide advanced preparation in adapted physical activity and the study of individuals with disabilities across the lifespan (preschool to adult).

Requirements
1. KIN 590 and 696;
2. Minimum of 12 units selected from the following: KIN 537, 538, 546, 638, and 697;
3. KIN 698 (4 units) for thesis/project students plus a minimum of 8 elective units;
4. KIN 695 for comprehensive exam students plus a minimum of 15 elective units.

Option in Coaching
(code KPE_MA07)
This option is designed to prepare students for careers in coaching and in student-athlete development.

Requirements
1. KIN 512, 577, 590, 593A, 696; KIN/COUN 539;
2. For Student-Athlete Development students, KIN 523;
3. For coaching students, KIN 578;
4. Student-Athlete Development Students select two from the following list of elective courses: COUN 515, 540, 547, 548, 552, 644B; KIN 572, 573, 574, 575, 578, 593A, 633;
5. Coaching students select two from the following list of elective courses: KIN 523, 540, 551, 560, 562, 571, 572, 573, 574, 593A, 630, 633.
6. KIN 698 (4 units) for thesis/project students;
7. KIN 695 for comprehensive exam students, plus a minimum of 6 elective units from #4 or #5 above that do not duplicate a previous selection and/or KIN 597.

Option in Pedagogical Studies
(code KPE_MA02)
The program of study for this Option is offered only through University College Extension Services at a higher tuition rate. Instruction in this Option is presented in an accelerated cohort program format over 24 months.

This Option provides preparation in student design, instructional development, and evaluation to improve the supervision of skills and develop expertise in behavioral research methods.

Requirements
1. KIN 524, 525, 526, 590, 696, and 697;
2. KIN 698 (4 units) for thesis/project students, plus a minimum of 8 elective units;
3. KIN 695 for comprehensive examination students, plus a minimum of 15 elective units.

Option in Sport Management
(code KPE_MA03)
The program of study for this Option is currently offered only through University College Extension Services at a higher tuition rate. Instruction in this Option is presented in an accelerated cohort program format over 18 months.

This Option prepares individuals for careers in athletic administration and sports management. Upon completion of this program (36 units), individuals will be prepared to work in the sports industry in a variety of settings, including professional, intercollegiate, and interscholastic sports and sport-related businesses.

Requirements
1. KIN 511, 512, 513, 514, 521, 577, 590, 591, 592A (6 units) and 696;
2. KIN 698 (4 units) for thesis/project students (Not available to students in the cohort format);
3. KIN 695 for comprehensive exam students.

Option in Individualized, Program, and Generalized Areas
(code KPE_MA00)
This Option is designed to provide the student with curriculum activities that combine one or more Option areas into a program of study. This Option is developed by the student with the advisement of a graduate faculty member and/or the Associate Chair for Graduate Studies. A statement of rationale for the proposal must accompany the program of study.

Requirements
1. KIN 690 and 696;
2. Minimum of 15 units from 500 and/or 600 level coursework in KIN;
3. KIN 698 (4 units) for thesis/project students, plus a minimum of 5 elective units (individualized);
4. KIN 695 for comprehensive examination students, plus a minimum of 12 elective units (generalized and program areas only).

**Master of Science in Kinesiology**

Four Options are under the Master of Science degree in Kinesiology and are described below. The core courses for thesis/project students are KIN 580, 590, 696, and 698. The core courses for comprehensive examination students are KIN 580, 590, 695, and 696.

**Option in Exercise Science (code KPE_MS01)**

This Option is designed to provide up-to-date theoretical principles and practical experiences in exercise physiology and biomechanics.

1. Required Courses: KIN 540, 551, 530, 590, and 606 (15 units);
2. Elective Courses: Select five of the following courses: KIN 541, 552, 553, 562, 565, 594, 630, or 697 (15 units);
3. KIN 698 (4 units) for thesis/project students;
4. KIN 695 for comprehensive examination students, plus a minimum of 6 elective units. (9 units)

**Option in Sport and Exercise Psychology (code KPE_MS02)**

This Option is designed to prepare students for careers in sport and exercise psychology, in particular as athletic performance enhancements specialists and/or as researchers and teachers in academic settings. Requirements

1. KIN 572, 578, 577, 590, 633, 696;
2. Two of the following courses: COUN 510, 513, 515, 522; KIN 512, 571, 573 or 574, 575, 630, 697; PSY 575;
3. KIN 608 (4 units) for thesis/project students, plus a minimum of 5 units from #2 above that do not duplicate a previous selection;
4. KIN 695 for comprehensive exam students, plus a minimum of 12 elective units from #2 above that do not duplicate a previous selection.

**Option in Sports Medicine and Injury Studies (code KPE_MS03)**

This Option is designed to provide an in depth study in the many health-related problems related to individuals who are physically active.

Requirements

1. KIN 540, 551, 560, 561, 562, 590, 633, 696, and 697;
2. KIN 608 (4 units) for thesis/project students, plus a minimum of 3 elective units;
3. KIN 606 for comprehensive examination students, plus a minimum of 9 elective units.

**Option in Exercise Physiology and Nutrition (code KPE_MS04)**

This Option is designed to prepare students for careers in exercise physiology and nutrition.

Requirements

1. Completion of a minimum of 24 units for thesis/project and a minimum of 39 units for comprehensive examination;
2. KIN 551, 560, 552 or 565, 590, and 690 or FCS 696;
3. Select two from the following list of courses: KIN 552, 553, 562, and 565;
4. Select three from the following: NUTR 436, 438, and 439; FCS 530A, 530B, 531, and 655B;
5. KIN 696 or FCS 698 (4 units) for thesis/project;
6. KIN 695 for comprehensive examination plus a minimum of 6 elective units from KIN 594, 595, and #2 and #3 above.

* If not taken as one of the required courses in the Option.

**Courses (KIN)**

**ACTIVITY COURSES**

**100-198. Physical Education Activity (1)**

Broad range of physical education activities designed to provide opportunities to meet health, physical, and recreational needs and interests.

Maximum of 8 units may be applied toward University graduation requirement. Students assume responsibility for satisfactory health status appropriate for class activity. May be offered at beginning (I), intermediate (II), and advanced (III) levels. All classes are co-educational; students may enroll in activity courses offered by Department of Kinesiology. Courses offered within areas are:

*Individual/Dual Activities (1)*

100A. Archery. Course fee may be required.
100B. Intermediate Archery.
102A. Badminton
104A. Bowling. Course fee may be required.
104B. Advanced Bowling. Prerequisite: KIN 104A or consent of instructor.
108A. Golf
112A. Racquetball
114A/B. C. Tennis
145A. Gymnastics
152A. Yoga

*Combative Activities (1)*

108A. Fencing-Foil
107A. Fencing-Sabre
109A. Fitness Walking (1)
110A. Triathlon Fitness (1)
148A. Karate
149A. Self Defense

*Aquatics (1)*

121A. Sailing. Course fee may be required.
124A. Surfing
125A/B. Swimming
126A. Swimming Conditioning
127A. Aqua Aerobics (1)

*Fitness Activities (1)*

142. Group Exercise: Cardio
146A. Jogging
151A. Weight Training and Conditioning
152B. Intermediate Yoga
Prerequisite: KIN 152A or consent of instructor.

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Team Activities

161A. Basketball
162A. Beach Volleyball
165A. Flag Football
166. Rugby
167A. Soccer
168A. Ultimate Frisbee (1)
169A. Softball
172A, B, C. Volleyball
Recreational Dance
183A. Recreational Dance Workshop
183B. Recreational Dance Workshop II
Prerequisites: KIN 183A, 185, or consent of instructor.
184. Formation Dancing
Prerequisite: KIN 183B or consent of instructor.
188. Salsa

195. Social Dance
198. Special Activities
   F. Group Exercise: Dance Conditioning (1-3)
   G. Tai Chi Chuan (1)
   H. Combat Jian Shu for Sport (1)
   J. Mat Pilates Level I (1)
   K. Kung Fu (1)

* See Physical Education professional courses for additional activities open to non-majors.

PROFESSIONAL COURSES

Kinesiology majors and minors will be given priority enrollment in classes required for the major. Selected courses are available to the general student body to receive credit toward general education requirements.

LOWER DIVISION

143. Individual Conditioning (1)
   Designed to introduce the student to the activities, equipment, and techniques used in the development of conditioning programs tailored to one's individual needs. May be repeated to a maximum of 8 units.

156. Sports Appreciation (3)
   Prerequisite: One of the GE Foundation courses (may be taken concurrently).
   Introduction to the study of sport as a social institution in American society.

157. Fitness for Living (3)
   Prerequisite: One of the GE Foundation courses (may be taken concurrently).
   Analysis and implementation of the concepts related to exercise for health and fitness.
   (Lecture 2 hours, Activity 2 hours.)

189. Country Dancing (1)
   Instruction and practice in various country dance forms including line dancing, two-step, waltz, contra dancing, round dancing, and mixers. This course is useful for lifelong fitness, socialization, and recreation. May be repeated to a maximum of 8 units.

200. Psychological Skills for Peak Performance in Sport (3)
   Introduction of psychological strategies and skills designed to help individuals achieve optimal performance. Skills such as imagery, goal setting, self-talk, attentional focusing, arousal regulation, and coping are presented.
   (Lecture, 3 hours)

207. Prevention and Care of Athletic Injuries (3)
   Prerequisites: KIN 210 or equivalent.
   Principles and techniques of the prevention and care of common athletic injuries.
   (Lecture 2 hours, Activity 2 hours.)

210. Advanced Emergency Care (3)
   Theory and practice of first aid for the injured. Successful completion of course requirements leads to the American National Red Cross advanced first aid and personal safety and community CPR certificate.
   Course fee may be required.

215. Career Perspectives in Human Movement (1)
   Overview of human movement including professional preparation and employment opportunities. Orientation to current programs and proficiency requirements.
   Students entering the Kinesiology major are required to enroll in this course their first semester of study.

217. Introduction to Kinesiotherapy (2)
   Introduction to profession of Kinesiotherapy intended to provide student with information regarding history of the profession, its educational expectations, standards and scope of practice basic skills needed to enter this field of study.
   Letter grade only (A-F).

218. Introduction to the Fitness Industry (2)
   Prerequisites: Open to Fitness Option students in Kinesiology only or by permission of instructor.
   An introduction to the Fitness profession which will provide the student with information regarding the history of the fitness industry, its educational expectations, standards and scope of practice basic skills needed to enter this field, and career options.
   Letter grade only (A-F).

237. Techniques and Analysis of Aquatic Skills (2)
   Prerequisites: KIN 125A or 125B or consent of instructor, American Red Cross Community First Aid and CPR certification or equivalent. Open to Kinesiology majors in the Adapted, Elementary, and Secondary Physical Education options. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.
   Instruction and techniques in individual aquatic skills, hydrodynamic and movement principles, and an exposure to a variety of learning procedures applicable to the development of aquatic skills.
   Letter grade only (A-F). (Lecture 1 hour, Laboratory 3 hours.)

242. Backpacking (2)
   An experiential examination and analysis in the judgment, knowledge, equipment and skills necessary to safe wilderness travel and living.
   2-3 day field experience required. Course fee may be required.

243A. Winter Mountain Expedition (3)
   Introduction to winter mountaineering skills; study of the mountain environment.
   (Activity 6 hours). (Field experience required). Course fee may be required.
243C. Desert Expedition (3)
Introduction to the skills, attitudes, and knowledge required for safe use and enjoyment of desert areas. An interdisciplinary introduction to the meaning and significance of the desert. Trip planning, map use, methods of safe travel.
Course includes field trip. Course fee may be required. (Activity 6 hours.)

244. Kayaking (2)
An experiential examination and analysis of the judgment, knowledge, equipment, and skills development necessary for safe flat and whitewater kayaking.
2-3 day field experience required. Course fee may be required. (Activity 4 hours.)

245. Wilderness Water Expedition (3)
Introduction to the skills, attitudes, and knowledge required for safe use of various types of wilderness waters. The skills and techniques of boat handling and trip planning. An interdisciplinary introduction to the study of waterways.
(Activity 6 hours.) 2-3 day field experience required. Course fee may be required.

246A. Mountainineering (2)
An experiential examination and analysis in the judgement, knowledge, equipment, and skills necessary to safe mountainineering.
Course includes field trip. Letter grade only (A-F). (Activity 4 hours.) Course fee may be required.

247A. Techniques of Rockclimbing (2)
Introduction to the basic skills, judgment and safety for technical rockclimbing. The skills and techniques of top rope, belaying, rappels and self-rescue.
Course includes field trip. Course fee may be required. (Activity 4 hours.)

250. Techniques of Basketball (1)
Instruction in individual and team skills and techniques utilized in the sport of basketball for successful performance.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

251. Techniques of Flag Football (1)
Open to Kinesiology majors and minors only.
Instruction and practice in catching, throwing, tackling, running. Comprehensives teaching of skills and techniques in Flag Football.
Letter grade only (A-F).

253. Techniques of Soccer (1)
Instruction in individual and team skills and techniques utilized in the sport of soccer for successful performance.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

255. Techniques of Softball (1)
Instruction and practice in catching, throwing, hitting, sliding, base running, and bunting. Comprehensives teaching of skills and techniques in softball.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

257. Techniques of Volleyball (1)
Instruction in individual and team techniques utilized in the sport of volleyball.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

260. Fundamental Rhythms (2)
Instruction and practice in fundamental rhythms involving folk and social dance forms.
Designed for Kinesiology majors and minors, but open to all students. (Activity 4 hours.)

261. Techniques and Analysis of Fundamental Rhythms (2)
Instruction, practice, teaching, and analysis of floor patterns and rhythm variations of basic social and folk dances and their appropriateness to successful teaching of various age groups and skill levels in the public schools.
Open to Kinesiology Pedagogy Majors only. Letter grade only (A-F). (Activity 4 hours.)

263. Techniques of Physical Fitness (2)
Consists of instruction, practice, and evaluation in physical fitness. Cardiorespiratory, muscular strength and endurance, and flexibility activities will be emphasized within the course.
Open to Kinesiology majors only or consent of instructor. Not open for credit to Kinesiology majors in the pedagogy options. Letter grade only (A-F). (Discussion 1 hour, Laboratory 3 hours.)

264. Techniques of Golf (1)
Instruction and techniques in individual skills and strategies for successful performance in golf.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

265. Techniques of Gymnastics (1)
Open to Kinesiology majors and minors only.
Techniques and instruction of the principles of movement in gymnastics as well as organizational strategies utilized in presenting gymnastics in Physical Education classes.
Letter grade only (A-F).

266. Techniques of Badminton (1)
Instruction and techniques in the skills and strategies for successful performance in badminton.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

267. Techniques of Tennis (1)
Instruction, techniques and analysis in the concepts of teaching, coaching, and playing tennis.
Open to Kinesiology majors and minors only. (Activity 2 hours.)

268. Techniques of Track and Field (1)
Instruction, techniques and analysis in the concepts of teaching, coaching, and performance in track and field.
Open to Kinesiology majors and minors only. Letter grade only (A-F). (Activity 2 hours.)

270. Professional Practices in Public School Physical Education (3)
Prerequisite: Students must meet the University GE writing course requirement. Corequisite: CPR/First Aid/Safety or current certification.
Provides an overview of current professional practices in public school physical education. Students plan, teach, and self-evaluate lessons. Required introductory course for Adapted, Elementary and Secondary Pedagogy options after 30 units of college course work.
Open to Adapted, Elementary, and Secondary Option students in Kinesiology only. Letter grade only (A-F). (Lecture 2 hours, Laboratory 2 hours.)

UPPER DIVISION

300. Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent.
Anatomical structure and function, and mechanical principles relating to human motion, including analytical application.
(Lecture 2 hours, laboratory 3 hours.)
301. Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of “C” or better or consent of instructor.
Basic concepts of the physiology of muscular exercise with emphasis on the responses and adaptations of the circulatory system, the respiratory system, and skeletal muscles to the physical stress of acute and chronic exercise.
(Lecture 2 hours, Laboratory 3 hours). Course fee may be required.

304. Clinical Aspects of Athletic Training (5)
Prerequisites: BIOL 207, 208; KIN 207.
Principles and techniques of related clinical concepts applicable to the athletic training setting.
Open to Kinesiology majors in athletic training or consent of instructor. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

306. Medical Aspects of Athletic Training (3)
Prerequisites: BIOL 207, 208; KIN 207.
Principles and techniques of related medical concepts applicable to the athletic training setting.
Open to Kinesiology majors in athletic training or consent of instructor. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

308A. Athletic Training Evaluation I (2)
Prerequisites: BIOL 207; KIN 207, 300.
Theoretical concepts and clinical skills for assessment of athletic injury and illness. The first semester of a two-semester sequence (KIN 308A and 308B). Emphasis is on the injury evaluation process, injury nomenclature, lower extremity and spine.
Open to Kinesiology majors in Athletic Training or consent of instructor. Letter grade only (A-F). (Lecture 1 hour, Activity 2 hours)

308B. Athletic Training Evaluation II (2)
Prerequisites: BIOL 207; KIN 207, 300, 308A.
Theoretical concepts and clinical skills for assessment of athletic injury and illness. The second semester of a two-semester sequence (KIN 308A and 308B). Emphasis is on the thorax and abdomen, upper extremity, eye, face, head, and neck.
Open to Kinesiology majors in Athletic Training or consent of instructor. Letter grade only (A-F). (Lecture 1 hour, Activity 2 hours)

309. Developmental and Therapeutic Exercise (3)
Prerequisites: KIN 300, 301 or consent of instructor. Prerequisites, techniques, and prescription of exercises for development or rehabilitation of the body.
(Lecture 2 hours, Activity 2 hours.)

310. Therapeutic Approaches in Athletic Training (3)
Prerequisites: KIN 308A or 309 or consent of instructor.
Theory and application therapeutic modalities and exercise rehabilitation commonly used in athletic training programs.
Open to Kinesiology majors in the athletic training option only. (Lecture 2 hours, Activity 2 hours)

312. Motor Control and Learning (3)
Prerequisites: BIOL 207, 208, PSY 100.
Basic concepts of the neuro-motor and psychological contributions in the control and acquisition of skilled performance.
Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

315. Motor Development (3)
Prerequisites: BIOL 207, 208; PSY 100 or equivalent.
Developmental perspectives of factors contributing to acquisition of motor control from infancy through adolescence.
(Lecture 2 hours, Activity 2 hours)

320. Adapted Physical Education (3)
Prerequisites: BIOL 208.
Kinesiology majors learn to teach physical activity to persons with disabilities. Discussed are the etiology characteristics and best teaching practices (i.e., inclusion) for persons with mental, learning physical, emotional, sensory, health, and/or multiple disabilities. (Lecture 2 hours, Activity 2 hours)

331. Sociocultural Dimensions of Sport and Human Movement (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations course, and upper-division standing.
Socio-cultural and psychological correlates to human movement.

335. Historical and Cultural Foundations of Sport and Kinesiology in America (3)
Prerequisites: Upper division standing.
Survey of the history of sport and kinesiology. Historical identification of the cultural trends and functions of sport and kinesiology in America.
Open to Kinesiology Majors only.

338. Women in Sport (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Survey of women’s historical and contemporary involvement with sport. The social, cultural, and developmental implications of sport participation for women.

339. Psychology of Sport Behavior and Athletic Performance (3)
Prerequisites: Completion of GE Foundation, PSY 100, and upper-division standing.
Psychological dimensions of attitudes, behaviors, and performance in sport and exercise environments.
Same course as PSY 339. Not open for credit to students with credit in PSY 339.

343. Techniques and Analysis of Physical Fitness and Activity (2)
Prerequisite: KIN 270.
Knowledge needed to plan and implement physical activity programs in public schools. Analysis of development, maintenance, intervention, and self assessment of physical fitness. Designed to prepare for FitnessGram assessments and Department’s Physical Fitness Proficiency Examination.
Open to Kinesiology/Physical Education Pedagogy Majors and Minors only. Letter grade only (A-F). (Lecture 1 hour, Activity 3 hours)

354. Technology in Physical Education (3)
Overview of education technology applications, specifically word processing, spreadsheet, video technology, web-based information, Internet related software and technologies, pdf documents, personal digital assistants (PDAs) and use of commercially produced educational software.
Meets computer technology requirement for California Single Subject Preliminary Teaching Credential. Letter grade only (A-F). (Lecture 2 hours, laboratory 2 hours)

363. Theory and Analysis of Group Fitness Instruction (2)
Prerequisite: KIN 203. Open to Fitness Option students in Kinesiology only, or consent of instructor.
Learn to become effective group exercise leaders by understanding responsibilities of fitness leaders, principles of fitness, and leadership skill. Techniques for various group exercise activities will be taught.
Letter grade only (A-F). (Discussion 1 hour, Activity 2 hours)
364. Fitness for Adult Populations with Unique Health Considerations (3)
Prerequisites: KIN 301. Open to Fitness Option students in Kinesiology only, or consent of instructor.
Scientific information regarding exercise testing and exercise prescription for adult special populations. Topics include pregnancy, diabetes, arthritis, stroke, respiratory disorder, coronary artery disease, hypertension, and obesity.
Letter grade only (A-F).

367. Fitness and the Aging Process (3)
Prerequisites: KIN 301. Open to Fitness Option students in Kinesiology only, or consent of instructor.
Provides knowledge in the areas of fitness and the older adult. Topics include theories of aging, age-related changes that affect physical capacity, exercise and its impact on the aging process, and physical activity programming for the older adult.
Letter grade only (A-F). (Discussion 2 hours, Laboratory 2 hours.)

368. Resistance Training for Fitness (3)
Prerequisites: KIN 300, 301. Open to Fitness and Athletic Training Option students in Kinesiology only, or consent of instructor.
Designed to provide the student with theoretical knowledge and practical skills needed to become a personal trainer. The course covers such topics as the business of personal training, client-trainer relationships, fitness and health assessments and exercise prescription.
Letter grade only (A-F). (Discussion 2 hours, Activity 2 hours.)

370. Movement Theory and Practice of Elementary Physical Education (3)
Prerequisite: KIN 270.
Provides Kinesiology Physical Education Teacher Education (PETE) Option candidates with movement theory and practice in elementary school physical education based upon California Physical Education Framework and Content Standards. Practice includes fieldwork experiences in elementary school physical education.
Designed for Kinesiology majors. (Lecture 2 hours, Activity 2 hours.)

Prerequisites: KIN 149, 237, 260, 265, 255, 257, 261, 264, 265, 266, 267, 268, 343, 370 or consent of instructor. Corequisite: EDSS 300P.
Principles, organization and management of activities taught in secondary schools, includes basic organization and management strategies and fieldwork experience in public secondary school physical education.
Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours.)

387. Physical Activities for the Disabled (3)
Prerequisite: KIN 320, 427. Corequisite: KIN 489A.
Adaptation of physical activities, equipment, and facilities for individuals with permanent disabilities affecting motor performance.
(Lecture 2 hours, Activity 2 hours)

388. Program Planning and Instruction in Adapted Physical Education (3)
Prerequisite: KIN 387. Corequisite: KIN 489A.
Emphasis on program planning and the development of teaching skills in Adapted Physical Education.
(Lecture 2 hours, Activity 2 hours)

405. Cardiopulmonary Aspects of Health-Related Exercise Programs (4)
Prerequisites: KIN 210 or current First Aid and CPR certificates, KIN 301.
Theory and practical application of physical fitness assessment. Emphasis will be placed on the use of assessments to design and implement basic fitness programs for apparently healthy individuals.
Letter grade only (A-F). (Lecture 3 hours, Laboratory 3 hours)

407. Management Strategies in Athletic Training (3)
Prerequisites: Senior standing or consent of instructor.
Professional issues, administration, and management strategies of athletic training programs.
Open to Kinesiology majors in the athletic training option only.

427. /527. Physical and Motor Assessment (3)
Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing; consent of instructor required for graduate students prior to registration.
The selection, administration, and interpretation of standardized and informal tests used in the physical and motor assessment practices of individuals with disabilities.
Upper-division students register in KIN 427; Graduate students register in KIN 527. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

430. Motor Control Principles and Theory (3)
Prerequisite: KIN 312 or equivalent.
Study of the principles, models, and theories of human movement control. Instruction is directed toward understanding the fundamental principles, theoretical propositions, and neuromuscular models, with applications to sport, physical education, human factors, and human performance.
Letter grade only (A-F).

431. Scientific Foundations of Locomotion (3)
Prerequisites: KIN 300, 312.
Instruction is directed towards understanding the influence of motor control theories, biomechanical principles, and constraints to human movement on locomotion.
Letter grade only (A-F).

438. /538. Motor Dysfunction and the Exceptional Person (3)
Prerequisites: A basic undergraduate course in Adapted Physical Education or its equivalent. Recognition, analysis, assessment and remediation of movement problems in a child with minor nervous system dysfunctions.

441. /541. Applied Biomechanics: Lifting and Work Capacity (3)
Prerequisite: KIN 300 or equivalent (Trigonometry and PHYS 100A recommended).
Study of the mechanical properties of bone, ligament, tendon and skeletal muscle. Development, description, and application of selected biomechanical models to the evaluation of weight lifting, rehabilitation exercises, and occupational lifting tasks. Critical analysis of methods used to assess strength.
Letter grade only (A-F).

448. Wilderness Studies: Leadership Practicum (3)
Analysis and practice of the leadership and teaching techniques appropriate to the conduct of wilderness adventure programs. CourseFee may be required.
457. Applied Theory of Teaching Team Sports (3)
Prerequisites: KIN 250, 253, 255, 257 or consent of instructor.
Comprehensive analysis of the principles of movement, corrections of performance, and organizational strategies utilized in presenting team sports such as basketball, football, soccer, softball, volleyball, floor hockey, speedball, and team handball.
Letter grade only (A-F). (Lecture 2 hours; activity 2 hours.)

460. Applied Theory and Analysis of Non-Traditional Physical Education Games and Activities (2)
Prerequisites: KIN 270, senior standing.
Organization and management to effectively plan and implement a variety of non-traditional physical education games and activities such as cooperative games, problem solving activities, collaborative learning groups, and outdoor educational experiences.
Open to Kinesiology majors and minors only. Letter grade only (A-F). (Lecture 1 hour; Laboratory 1 hour.)

461. Applied Theory of Teaching Individual and Dual Sports (3)
Prerequisites: KIN 237, 264, 265, 266, 267, 268, or consent of instructor; senior standing.
Comprehensive analysis of the principles of movement and organizational strategies utilized in archery, badminton, golf, paddle tennis, pickleball, racquetball, tennis, swimming, orienteering, and track and field.
Open to Kinesiology majors in the Adapted, Elementary, and Secondary Physical Education options. Letter grade only (A-F). (Lecture 2 hours; Activity 2 hours.)

462./562. Advanced Strength and Conditioning (3)
Prerequisites: KIN 300, 301.
Study of biomechanical and kinesiological factors which are important in understanding the function and proper techniques for execution of a wide variety of standard and advanced weight training exercises. Physiological bases for strength training and adaptations caused by different training regimes are emphasized.
Letter grade only (A-F).

463./563. Clinical Exercise Electrocardiography (3)
Prerequisites: DICE 207, KIN 301, and/or consent of instructor. Study of the physiology and pathophysiology of the electrical activity of the heart. Instruction is directed toward pattern recognition of normal and abnormal resting and exercise electrocardiograms.

465./565. Biochemical and Hormonal Adaptations to Physical Activity (3)
Prerequisites: Upper division undergraduate or Graduate standing; KIN 301 or equivalent; CHLM 111A or its equivalent.
Study of the biochemical and hormonal changes that occur as a result of acute and chronic physical activity. Emphasis will be placed on the application of concepts to the development of exercise training programs.
Consent of instructor required for upper division undergraduate students prior to registration. Upper-division undergraduate students register in KIN 465; graduate students register in KIN 565. Letter grade only (A-F). Same course as NUTR 465. Not open for credit to students with credit in NUTR 466.

467. Fundamentals of Personal Training (3)
Prerequisites: KIN 366. Open to Fitness Option students in Kinesiology only, or consent of instructor.
Designed to provide the student with theoretical knowledge and practical skills needed to become a personal trainer. The course covers such topics as the business of personal training, client-trainer relationships, fitness and health assessments and exercise prescription.
Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours.)

469. Fitness Management (3)
Prerequisites: KIN 366.
Provides knowledge in the area of management of fitness programs. Topics will include program development, personnel issues, financial and legal considerations, equipment purchasing, and marketing strategies for fitness programs.
Open to Fitness Option students in Kinesiology only, or by permission of instructor. Letter grade only (A-F).

471./571. Technological Applications in Sport and Exercise Science (3)
Prerequisites: KIN 339I; upper division status or consent of instructor or graduate standing.
Learning and application of advanced computer and technology skills such as Biofeedback, video analysis software, advanced audio and video recording, software for presentations and interactive workshops, worldwide communications, and distance learning/telecommunications.

472./572. Applied Sport Psychology (3)
Prerequisites: KIN 339I; upper division status or consent of instructor or graduate standing.
Application of psychological skills and interventions to enhance athletic performance.

475./575. Psychology of Coaching (3)
Prerequisites: KIN 339I; upper division status or consent of instructor or graduate standing.
Current topics of psychological concern and application as related to athletic performance.
Letter grade only (A-F). Undergraduates register in KIN 475; graduates register in KIN 575. A written report is required for KIN 575.

476. Physical Education for the Elementary School Teacher (3)
Prerequisite: Junior Standing.
Provides multiple subject credential candidates with knowledge and experiences necessary to teach quality physical education lessons based upon the California Physical Education Framework and Content Standards. Content includes the FITNESSGRAM Program (state fitness tests) and subject integration activities.
(Lecture 2 hours, Activity 2 hours)

477. Measurement and Curriculum in Physical Education
Prerequisite: KIN 343 and KIN 370 or consent of instructor.
Course provides students with experiences in content development, program implementation, and evaluation of a physical education program. This service-learning component allows students to teach and critically reflect on subject matter while assisting a population in need.
Letter grade only (A-F). (2 hours lecture discussion, 2 hours lab)

478./578. Psychological Aspects of Exercise and Fitness (3)
Prerequisites: KIN 339I; upper division status or consent of instructor or graduate standing.
Philosophical, psychological and behavioral concepts of physical activity and health states will be discussed. Professional standards and invention strategies will be covered.
Letter grade only (A-F).
Undergraduates register in KIN 478; graduates register in KIN 578. A written report is required for KIN 578.
483. Measurement and Evaluation in Kinesiology (3)
Prerequisites: KIN 300, 301, 312.
Evaluation and analysis of measuring devices and resulting data used in Kinesiology. Interpretation of data using appropriate statistical analyses.
(Lecture 2 hours, Activity 2 hours)

485. Neurological and Pathological Foundations for Kinesiotherapy (3)
Prerequisites: BIOL 267, 268; KIN 300, 301, 320, 485F, or consent of instructor.
Survey of neurological control of normal movement and the implications of various medical pathologies for rehabilitation. Emphasis on inflammatory processes, metabolic and vascular disturbances, traumatic injuries, nutritional deficiencies, neoplasms, degenerative conditions and congenital disorders as related to the practice of Kinesiotherapy.
Letter grade only (A-F)

487/487S. Supervised Activity Instruction Experience (1-3)
Prerequisite: Upper division or graduate standing and consent of instructor.
Experience in the organization of and methods for the activity component of a course in kinesiology. A written report is required for KIN 487 students.
Undergraduate register in KIN 487; graduate register in KIN 487S. May be repeated to a maximum of 4 units. Letter grade only (A-F).
Restricted to majors only. Not open for credit to graduate students with credit in KIN 467. (Conferences 1 hour, Laboratory 2 hours per unit.)

488/488S. Clinical Basis of Kinesiotherapy (3)
Prerequisites: Completion of Bachelor's degree in Kinesiology, Physical Therapy, Exercise Physiology, or Kinesiotherapy and admission into the Kinesiotherapy Certificate Program and successful completion of a course(s) in pathological and neurological foundations of rehabilitation or approval of the Director of the Kinesiotherapy Certificate Program.
The theoretical foundations of clinical practice in Kinesiotherapy.
Letter grade only (A-F).

489. Field Work in Physical Activity Settings (1-3)
Prerequisite: Completion of Kinesiology course requirements for the major Option in which field work is taken.
Supervised practice in working with individuals or small to large groups in public or private agencies and schools.
Credit/No Credit grading only. May be repeated to a maximum of 9 units.
A. Fieldwork in Adapted Physical Education B. Fieldwork in Athletic Coaching
D. Fieldwork in Fitness Additional Prerequisites: KIN 467, completion of 200 hours in a corporate fitness setting, 200 hours in a traditional fitness setting, and 100 hours of approved fitness experience. Open to Fitness Option students in Kinesiology only.
F. Fieldwork in Kinesiotherapy G. Fieldwork in Motor Development K. Fieldwork in Wilderness Studies Additional Prerequisites: KIN 242, 244, 246 or 247, 243C or 244. Completion or concurrent of KIN 440, certification in CPR and First Aid, and consent of instructor. Supervised experience and practice working with individuals and groups in public/private agencies and schools involved in wilderness activities. May enroll in 1-3 units of fieldwork. Each unit is equivalent to 40 hours of fieldwork assignment. 2.0 hours minimum required for 3 units, of which at least 40 hours with CSULB Wilderness Studies Program. Balance of hours with public/private agencies.

490A. Clinical Practicum in Athletic Training (2)
Prerequisites: Consent of instructor and Grade of "B" or better in KIN 267; satisfactory completion of CSULB ATEP Physical Exam Form and satisfactory completion of CSULB ATEP Technical Standards Form.
Supervised clinical experiences in athletic training. Designed to provide students with formal instruction and evaluation in the Entry Level Athletic Training Clinical Proficiencies. Requires the completion of a minimum of 150 hours of clinical experience performed under the supervision of an BOC Approved Clinical Instructor.
Credit/No Credit grading only.

490B. Clinical Practicum in Athletic Training (2)
Prerequisites: Consent of instructor and successful completion of KIN 490A; satisfactory completion of CSULB ATEP Physical Exam Form and satisfactory completion of CSULB ATEP Technical Standards Form.
Continuation of laboratory and clinical experiences designed to provide formal instruction and evaluation in Entry Level Athletic Training Clinical Proficiencies. Requires completion of 300 hours minimum clinical experience performed under supervision of an BOC Approved Clinical Instructor.
Credit/No Credit grading only.

490C. Clinical Practicum in Athletic Training (2)
Prerequisites: Consent of instructor and successful completion of KIN 490B.
Continuation of laboratory and clinical experiences designed to provide formal instruction and evaluation in the Entry Level Athletic Training Clinical Proficiencies. Requires completion of 300 hours minimum clinical experience performed under supervision of a BOC Approved Clinical Instructor.
Credit/No Credit grading only.

490D. Clinical Practicum in Athletic Training (2)
Prerequisites: Consent of instructor and successful completion of KIN 490C. Continuation of laboratory and clinical experiences designed to provide formal instruction and evaluation in the Entry Level Athletic Training Clinical Proficiencies. Requires the completion of a minimum of 300 hours of clinical experience performed under the supervision of an BOC Approved Clinical Instructor.
Credit/No Credit grading only.

490E. Clinical Practicum in Athletic Training (2)
Prerequisites: Consent of instructor and successful completion of KIN 490D. Continuation of laboratory and clinical experiences designed to provide students with formal instruction and evaluation in the Entry Level Athletic Training Clinical Proficiencies. This course requires the completion of a minimum of 300 hours of clinical experience performed under the supervision of an BOC Approved Clinical Instructor.
Credit/No Credit grading only.

494/494S. Exercise Science Internship (3)
Prerequisites: Upper division or graduate standing with a grade of "B" or better in KIN 300 for a biomechanics internship or KIN 301 for an exercise physiology internship or KIN 312 for a motor control and learning internship; consent of instructor required prior to registration.
Provides practical experience in applying exercise science concepts in a fieldwork setting such as cardiac rehabilitation in a medical setting.
Upper division undergraduate students register in KIN 494; Graduate students register in KIN 494S. Letter grade only (A-F).
May be repeated to a maximum of 6 units.
495/595. Supervised Laboratory Methods (1-3)
Prerequisites: Upper division or graduate standing and consent of instructor.
Provides experience in the methods of the laboratory component for a Kinesiology course, for example, assisting students with their experiments and laboratory reports. Undergraduates register in KIN 495; graduates register in KIN 595. A written report is required for KIN 595 students. Letter grade only (A-F). Restricted to Kinesiology major students only. Not open for credit to graduate students with credit in KIN 495. (Conference 1 hour, Laboratory 2 hours per unit.) May be repeated to a maximum of 4 units.

497. Independent Study (1-3)
Prerequisites: Major or minor in physical education, senior status and consent of Kinology Department.
Student will conduct independent library or laboratory research under the supervision of a faculty member and write a report of the investigation. May be repeated to a maximum of 6 units. Letter grade only (A-F).

499. Special Studies (1-3)
Group investigation of topics of current interest in kinesiology or athletics. Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

GRADUATE LEVEL

511. Sports Marketing, Development, and Fund Raising (3)
Prerequisites: Graduate standing and a Baccalaureate Degree in Kinesiology/Physical Education or related field and admission to the Kinesiology Graduate Sports Management Program.
Provides students with an overview of sport marketing. It presents basic marketing terminology and discusses the application of marketing concepts to the development and promotion of the business of sport. Letter grade only (A-F).

512. Legal and Ethical Issues in Sport (3)
Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sports Management Program; or permission of instructor.
Examines legal and ethical issues associated with sport settings. Letter grade only (A-F).

513. Personnel and Facility Management in Athletics (3)
Prerequisites: Graduate standing admission into the Kinesiology Graduate Sport Management Program.
Examines the principles and practices associated with managing personnel and facilities in intercollegiate, intercollegiate, amateur, international, and professional sport. Letter grade only (A-F).

514. Sport Finance
Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sport Management Program.
Discusses financial management principles for use in intercollegiate, intercollegiate, amateur, international, and professional sports. Special emphasis is placed on understanding various means by which sport organizations control costs and increase revenue. Letter grade only (A-F).

521. Foundations of Sport Management (3)
Prerequisites: EDSS 450P or equivalent, or teaching experience (including student teaching).
Introduces students to the business of sport and the functional areas of Sport Management. Discusses the leadership, supervisory philosophies, principles, and practices of managing intercollegiate, intercollegiate, amateur, international, and professional sport.

522. Non-Traditional Activities in K-12 Physical Education (3)
Prerequisite: Graduate standing, admission to the Master of Arts Program in Pedagogical Studies.
Plans, implements, and evaluates nontraditional games and activities. Emphasis is on meeting needs of diverse populations, including students with disabilities, problem-solving, assessment, safety and injury prevention, ethical issues, group discussion, analysis of school outdoor educational experiences. Letter grade only (A-F).

523. Theory and Practice of College Teaching in Kinesiology (3)
Prerequisite: Graduate standing.
Designed to enhance the teaching knowledge and skills of persons who aspire to become or are currently college and university instructors of kinesiology through an examination of the principles and techniques of adult education associated with the discipline. Letter grade only (A-F).

524. Analysis of Teaching in Physical Education (3)
Analysis of teachers and teaching in physical activity environment: focus on developing observational competencies, analysis of research completed and future research designs.

525. Instructional Design in Physical Education (3)
Prerequisites: Undergraduate major in physical education, EDST 300.
A systems approach to designing instruction for the physical education program.

526. Applied Behavior Analysis in Physical Education (3)
Application of applied behavior analysis principles to physical education (sport) with particular emphasis on single subject research designs and behavior analysis in the physical education setting.

527.427. Physical and Motor Assessment (3)
Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent. Upper-division undergraduate or Graduate standing. Includes the selection, evaluation, administration and interpretation of various tests used in the physical and motor assessment practices of individuals with disabilities. Consent of instructor required for graduate students prior to registration. Requirement toward the Adapted Physical Education Specialist Credential. Upper-division students register in KIN 427; Graduate students register in KIN 527. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

528. Promoting Physical Activity and Fitness in K-12 Physical Education (3)
Prerequisite: Graduate standing, admission to the Master of Arts Program in Pedagogical Studies.
Develops physical education program plans that are in compliance with California State Content Standards for promoting physically active lifestyles and healthy physical fitness levels for all children, including those with special needs. Letter grade only (A-F).
530. Neuromotor Control (3)
Prerequisites: Graduate standing. KIN 312 or equivalent.
Study of the neurological and muscular contributions to the control of human movement with emphasis on application of concepts to sport, physical activity, and human factors. Instruction is directed toward understanding the fundamental principles of motor control.
Letter grade only (A-F).

537. Physical Education for Special Populations (3)
Foundations in the organization and conduct of Adapted Physical Education.

538./438. Motor Dysfunction and the Exceptional Person (3)
Prerequisite: A basic undergraduate course in Adapted Physical Education or its equivalent.
Recognition, analysis, assessment and remediation of movement problems in a child with minor nervous system dysfunctions.

539. Seminar in Student Athlete Development (3)
Prerequisite: Graduate standing.
Examination of student-athlete administration and advising in higher education: history, principles, techniques, and professional standards for student-athlete programs and services.
Letter grade only (A-F). Same course as COUN 539. Not open for credit to students with credit in COUN 559.

540. Biomechanical Factors in Human Movement (3)
Prerequisite: KIN 580 or equivalent
Study of film, video and force plate data collection for human movement evaluation, including data smoothing techniques. Qualitative kinematic and kinetic analysis examples including gait, jumping and lifting activities. Comparison of 2D versus 3D analyses of movement activities.
Letter grade only (A-F).

541./441. Applied Biomechanics: Lifting and Work Capacity (3)
Prerequisite: KIN 380 or equivalent (Trigonometry and PHYS 100A recommended).
Study of the mechanical properties of bone, ligament, tendon and skeletal muscle. Development, description, and application of selected biomechanical models to the evaluation of weight lifting, rehabilitation exercises, and occupational lifting tasks. Critical analysis of methods used to assess strength.
Letter grade only (A-F).

546. Developmental Aspects of Motor Behavior (3)
Prerequisite: KIN 315 or equivalent.
The study of major factors which contribute to the development of motor skillfulness from birth to maturity.
Letter grade only (A-F).

551. Advanced Exercise Physiology (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent. Advanced concepts in exercise physiology. Letter grade only (A-F).

552. Exercise Testing and Training in Health and Disease (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent. Physiological principles of exercise testing and exercise training in healthy individuals and patients with diseases such as coronary artery disease.
Letter grade only (A-F).

553. Environmental Aspects of Human Performance (3)
Prerequisites: Graduate standing; KIN 301 or equivalent with a grade of “C” or better from the instructor.
Study of the physiological responses and adaptations associated with exposure to environmental stresses including heat, cold, microgravity, air pollution, and elevated and reduced atmospheric pressures. Emphasis will be placed upon physical performance and its limitations under various environmental conditions.
Letter grade only (A-F).

560. Health Related Problems in Sport (3)
Prerequisites: KIN 207 and 301 or their equivalents and BIOL 207 and 208 or their equivalents.
Examination of health problems related to engaging in vigorous physical activity.
Letter grade only (A-F).

561. Musculoskeletal Injuries in Sport (3)
Prerequisites: KIN 207 and 301 or their equivalents and BIOL 208 or its equivalent.
An in-depth study of the most prevalent musculoskeletal injuries occurring in sports activities, including mechanisms, tissue responses, and management procedures.
Letter grade only (A-F).

562./462. Advanced Strength and Conditioning (3)
Prerequisites: KIN 300, 301.
Study of biomechanical and kinesiological factors which are important in understanding the function and proper techniques for execution of a wide variety of standard and advanced weight training exercises. Physiological basis for strength training and adaptations caused by different training regimes are emphasized.
Letter grade only (A-F).

565./465. Clinical Exercise Electrocardiography (3)
Prerequisites: BIOL 207, KIN 301, and/or consent of instructor.
Study physiology and patho-physiology of electrical activity of the heart. Instruction directed toward pattern recognition of normal and abnormal resting and exercise electrocardiograms.

566./466. Biochemical and Hormonal Adaptations to Physical Activity (3)
Prerequisites: Upper division undergraduate or Graduate standing. KIN 301 or equivalent; CHEM 111A or its equivalent. Consent of instructor required for upper division undergraduate students prior to registration.
Study of biochemical and hormonal changes that occur as a result of acute and chronic physical activity. Emphasis on application of concepts to development of exercise training programs.
Upper division undergraduate students register in KIN 466; graduate students register in KIN 566. Letter grade only (A-F).
Same course as FCS 566. Not open for credit to students with credit in FCS 566.

571./471. Technological Applications in Sport and Exercise Science (3)
Prerequisites: KIN 339; upper division status or consent of instructor or graduate standing.
Learning and application of advanced computer and technology skills such as biofeedback, video analysis software, advanced audio and video recording, software for presentations and interactive workshops, worldwide communications, and distance learning/consultations.
Letter grade only (A-F). Graduates register in KIN 571; undergraduates register in KIN 471. A written report is required for KIN 571 students.

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572.472. Applied Sport Psychology (3)
Prerequisites: KIN 336R, upper division status or consent of instructor or graduate standing.
Application of psychological skills and interventions to enhance athletic performance.
Letter grade only (A-F). Graduates register in KIN 572; undergraduates register in KIN 472. A written report is required for KIN 572 students.

573. History of Sport in the U.S.A. (3)
Prerequisite: KIN 335 or equivalent.
An analysis of the history of American sport as it reflects the dominant themes in American society.

574. Contemporary International Sport (3)
Investigation of contemporary international sport in various world cultures.

575.475. Psychology of Coaching (3)
Prerequisites: KIN 336R, upper division status or consent of instructor or graduate standing.
Current topics of psychological concern and application as related to athletic performance.
Letter grade only (A-F). Graduates register in KIN 575; undergraduates register in KIN 475. A written report is required for KIN 575.

577. Sport in U.S. Culture (3)
Prerequisite: KIN 332R or equivalent.
Analysis of physical activities in U.S. culture. Consideration of the relationships between sports and games and the factors of status, values, environment and cultural change.

578.478. Psychological Aspects of Exercise and Fitness (3)
Prerequisites: KIN 336R, upper division status or consent of instructor or graduate standing.
Philosophical, psychological and behavioral concepts of physical activity and health status will be discussed. Professional standards and invention strategies will be covered.
Letter grade only (A-F).
Graduates register in KIN 578; undergraduates register in KIN 478. A written report is required for KIN 578.

580. Computer Applications in Physical Education (3)
Prerequisites: Graduate standing, consent from instructor.
Introduction to computer hardware and software used in Kinesiology including DOS/Windows and Apple Macintosh operating systems.
Topics include: hardware, operating systems, word processing, spreadsheets, data exchange, presentation graphics/authoring tools, and video capture. Emphasis will be placed on integrating the use of hardware and software into a variety of Physical Education environments.

587.487. Supervised Activity Instruction Experience (1-3)
Prerequisite: Upper division or graduate standing and consent of instructor.
Experience in the organization of and methods for the activity component of a course in kinesiology and physical education.
Undergraduates register in KIN 487; graduates register in KIN 587. A written report is required for KIN 587 students. May be repeated to a maximum of 4 units. Letter grade only (A-F). Restricted to major students only. Not open for credit to graduate students with credit in KIN 487. (Conference 1 hour, Laboratory 2 hours per unit.)

588.488. Clinical Basis of Kinesiotherapy (3)
Prerequisites: Completion of Bachelor's degree in Kinesiology, Physical Therapy, Exercise Physiology, or Kinesiotherapy and admission into the Kinesiotherapy Certificate Program and successful completion of a course(s) in pathological and neurological foundations of rehabilitation or approval of the Director of the Kinesiotherapy Certificate Program.
The theoretical foundations of clinical practice in Kinesiotherapy.
Letter grade only (A-F).

588L. Kinesiotherapy Clinical Training I Laboratory (6)
Corequisite: KIN 588.
Instruction and observation at the Long Beach Veterans Administration Medical Center.

589. Kinesiotherapy Clinical Training II (3)
Prerequisite: Satisfactory completion of KIN 588.
Theory and practice of kinesiotherapy techniques in a medical center setting. 500 hours of instruction and observation at Long Beach Veterans Administration Medical Center.

589L. Kinesiotherapy Clinical Training II Laboratory (3)
Corequisite: KIN 589.
Laboratory instruction and observation at the Long Beach Veterans Administration Medical Center.

590. Statistical Analysis and Measurement in Kinesiology and Physical Education (3)
Prerequisites: EDSE 421, EDSS 450P or 450W, KIN 483 or equivalent.
Introduces students to the logic and application of basic descriptive and inferential statistics (i.e., correlation, regression, and analysis of variance) and includes a critical analysis of selected research publications.
Required of all master's degree candidates. To be completed within first 12 units of 500-650 series courses.

591. Field Studies in Sport Event Management (3)
Prerequisite: Graduate standing; admission to the Kinesiology Graduate Sports Management Program.
Practical field-based course requires students to complete 15 hours of classroom seminar instruction and 120 hours of supervised practical experience in a managed sport setting.
Letter grade only (A-F).

592A. Sports Management Internship (3)
Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; KIN 521; approval of Intern Coordinator.
A minimum of 20 hours per week for 16 weeks of supervised work experience in an approved sport management/administrative setting, jointly supervised by a University Faculty member and a supervisor from the assigned organization. May be in a paid or volunteer capacity.
Note: 6 units in one semester may not be taken if student is full-time employed. May be repeated to a maximum of 8 units.
Letter grade only (A-F).

593A. Coaching Internship (3)
Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; advancement to candidacy and approval of Intern Coordinator.
A minimum of 20 hours per week for 16 weeks of supervised work experience in an approved coaching setting, jointly supervised by a University Faculty member and a supervisor from the assigned organization. May be in a paid or volunteer capacity.
Note: 6 units in one semester may not be taken if student is full-time employed. May be repeated to a maximum of 8 units.
Letter grade only (A-F).
593B. Coaching Internship (6)
Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; advancement to candidacy and approval of Intern Coordinator. A minimum of 40 hours per week for 16 weeks of supervised work experience in an approved coaching setting. Supervised by a University faculty member and a supervisor from the assigned organization. May be in a paid or volunteer capacity. Note: May not be taken if student is full-time employed. Letter grade only (A-F).

594.494. Exercise Science Internship (3)
Prerequisites: Upper-division or graduate standing with a grade of "B" or better in KIN 300 for a biomechanics internship or KIN 301 for an exercise physiology internship or KIN 312 for a motor control and learning internship. Provides a minimum of 120 hours of practical experience in applying exercise science concepts in a fieldwork setting. The internship will provide such experiences as conducting the biomechanical/physiological exercise testing and/or leading the exercise training of selected subject populations such as patients undergoing cardiac rehabilitation, asymptomatic adults, and athletes. Consent of instructor required prior to registration. Upper-division undergraduate students register in KIN 494; Graduate students register in KIN 594. Letter grade only (A-F). May be repeated to a maximum of 6 units.

595.495.495. Supervised Laboratory Methods (1-3)
Prerequisites: Upper division or graduate standing and consent of instructor. Experience in the organization of and methods for a laboratory in kinesiology and physical education. Includes assisting students with their experiments and laboratory reports. Undergraduates register in KIN 495; graduate students register in KIN 595. A written report is required for KIN 595 students. May be repeated to a maximum of 4 units. Letter grade only (A-F). Restricted to Kinesiology major students only. Not open for credit to graduate students with credit in KIN 495. (Conference 1 hour, laboratory 2 hours per unit) May be repeated to a maximum of 4 units.

596. Practicum in Physical Education Pedagogy (3)
Prerequisites: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies. Students are required to evaluate their teachers and provide documentation that they are addressing all of the physical education standards for individuals ages 2-18 that have been established by the National Board for Teacher Certification (NBPTS). Letter grade only (A-F).

597. Independent Research (1-3)
Prerequisites: Consent of Kinesiology faculty member and graduate advisor. Independent research under the guidance of a faculty member. Varies learning activities utilized to achieve competency related to Physical Education not offered in regular classes. Written report required. Letter grade only (A-F). (Independent Study)

630. Seminar in Motor Learning (3)
Prerequisites: KIN 312. 590 and 696 (may be taken concurrently). Identification and analysis of motor learning principles and theories applicable to training, learning, and rehabilitation in sport, physical education, recreation, and therapeutic settings.

633. Seminar in Sport Psychology (3)
Prerequisite: KIN 339I or permission of instructor. Study of psychological theories and their relationship to human behavior in sport and other physical activity settings.

638. Seminar in Trends Adapted Physical Education (3)
Prerequisites: KIN 537 or 538, or equivalent. An examination and analysis of the current trends in Adapted Physical Education.

671. Seminar in Current Trends and Issues in Kinesiology (3)
Prerequisite: Graduate standing. Examines current trends and issues in Kinesiology, develop and defend personal perspective on significant issues, and identify problems and develop plans for problem-solving in organizational/professional contexts. Letter grade only (A-F).

695. Seminar in Professional Literature (3)
Prerequisite: KIN 590, 696. Critical analysis and synthesis of professional literature in Kinesiology. Professional portfolio required to be submitted during the class. Required of all candidates not electing thesis option.

696. Research Methods (3)
Prerequisite: Undergraduate major in Kinesiology, Physical Education, or related field. Presents diverse methodological approaches to contemporary problems in Kinesiology, research design, data collection, and analysis. Required of all Master's degree candidates. To be completed within the first 12 units of 500-600 series courses.

697. Directed Studies (1-3)
Prerequisites: KIN 590, 696, advancement to candidacy. Research in an area of specialization under the direction of a faculty member.

698. Thesis/Project (1-4)
Prerequisite: KIN 590, 696, advancement to candidacy. Planning, preparation and completion of an approved thesis/project. Professional portfolio required to be submitted during the class.

699. Seminar in Selected Topics (3)
Intensive study of salient problems of current professional importance to experienced physical educators. May be repeated to a maximum of 6 units with different topics. Topics to be announced in the Schedule of Classes.

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Latin American Studies
College of Liberal Arts

Director: Norma Stoltz Chinchilla
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Assistant Directors: Alicia del Campo, Jayne Howell
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Affiliated Faculty: Luis Arroyo (Chicano and Latino Studies), Roland E. Bush (Comparative World Literature), Norma Stoltz Chinchilla (Women's Studies/Sociology), Margaret Coals (Kinesiology), Alejandro Cox-Edwards (Economics), Jim Curtis (Geography), Alicia del Campo (Romance, German, Russian Languages and Literatures), Bonnie Gable (Romance, German, Russian Languages and Literatures), Leah Hoce (Political Science), Jayne Howell (Anthropology), Gary Hylek (Sociology), Javier Lopez-Zelira (Health Sciences), Claire E. Martin (Romance, German, Russian Languages and Literatures), Carlos Pilar (Religious Studies), Saul Pires (Journalism), Jose Rodriguez (Communication Studies), Victor Rodriguez (Chicano and Latino Studies), Josué Sánchez (Film and Electronic Arts), Anne Sandlov (Chicano and Latino Studies), Carlos Sierra (Art Education), John Tschida (Asian and Asian American Studies)

Certificate in Latin American Studies (code COLACT01)

The Certificate offers students a baccalaureate degree in any field an opportunity to supplement their education with a focus on the interdisciplinary study of Latin America. The Certificate's flexible program of study is ideal for students interested either in intellectual enrichment or professional development. Courses used to meet this certificate may be counted also, where applicable, toward General Education requirements, and the major or minor requirements of the cooperating departments. The successful completion of two college intermediate level courses in Spanish, Portuguese or any other language appropriate to the student's area of concentration of the equivalent fluency as determined by the program advisor is strongly recommended.

Requirements

The following are the requirements for the Latin American Studies Certificate.

1. Consultation with the program advisor, including formal declaration of the minor, and application for graduation.
2. Completion of 24 units distributed as follows:
   A. Core: (Required by all students) 3 units. Choose either LAS 161/HIST 161/SOC 161 (Introduction to Latin American Studies) or SPAN 445 (Latin American Civilization).

Minor in Latin American Studies (code HISTUM03)

The Minor offers students majoring in any subject an opportunity to supplement their education with a focus on the interdisciplinary study of Latin America. The flexible program of study is ideal for students interested either in intellectual enrichment or professional development in their major. Courses used to meet this minor requirement may be counted also, where applicable, toward General Education requirements, and the major or minor requirements of the cooperating departments. The successful completion of two college intermediate level courses in Spanish, Portuguese or any other language appropriate to the student’s area of concentration of the equivalent fluency as determined by the program advisor is strongly recommended.

Requirements

The following are the requirements for the Latin American Studies minor:

1. Consultation with the program advisor, including formal declaration of the minor, and application for graduation.
2. Completion of 21 units distributed as follows:
   A. Core: (Required by all students) 3 units. Choose either LAS 161/HIST 161/SOC 161 (Introduction to Latin American Studies) or SPAN 445 (Latin American Civilization).

Courses (LAS)

Lower Division

161. Introduction to Latin American Studies
Prerequisite: Completion or concurrent enrollment in ENGL 100. Interdisciplinary overview of history, society, and culture in Latin America – Mexico, Central America, the Caribbean, and South America. Examines political, economic, social and cultural conditions that have produced conflict, change, and continuity in Latin America over the last five hundred years.

Same course as HIST 161 and SOC 161. Not open for credit to students with credit in HIST 161 and SOC 161.

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Certificate in Legal Studies  
(code COLACT03)

The Certificate Program in Legal Studies is designed for students who are interested in the study of law as a cultural product and as a field of critical inquiry. It is not a professional program in para-legal education. The certificate may be earned in conjunction with any baccalaureate degree and should be especially useful to those preparing for careers in government service, business, journalism and education. Courses taken in the program may be used to satisfy major, minor, other credential or general education requirements. No more than 12 units, however, may be in the candidate's major.

The Legal Studies Certificate may be earned concurrently with or following the award of the baccalaureate degree from CSULB or another accredited institution. See pp. 102 and 114.

Requirements

Twenty-four total units distributed as follows:
1. Twenty-one units which must include HIST 308I and an additional 18 units from the courses listed below. The courses taken in the program must be from a minimum of three departments. The selection of courses is made by the student in consultation with an adviser in the program;
2. Project paper (3 units). To be written during the senior year under the supervision of a faculty member participating in the Certificate Program. The paper can be either an exploratory project (in which a subject is researched in a detailed and original manner) or an analytic effort (where fewer sources are used but the discussion of the material is developed more fully).

Legal Studies Courses

ASAM 346; AFRS 339; CRJU 301; ECON 356; BLAW 252, 320; HIST 308I, 380I, 480; PHIL 352, 451I, 452I; POSC 311, 312, 376, 412, 414, 419; SW 350, COMM 441I; WIST 308.

Persons interested in the Program for Legal Studies should contact Dr. Atlie Burke, Director, Department of History.
LIBERAL ARTS, COLLEGE OF

Dean: Gerry Riposa
Associate Dean: Mark Wiley
Director, Facilities Planning and Technology: Mike Blazey
Director of Development: Kevin Crowe
Administrative Services Manager: Terrie Bostic
Director, Learning Alliance: Deon Pelissier
Coordinator, Student Life and Development: Anne Nazstos Peters (562) 985-4191
College Secretary: Myriam Joseph
Educational Policy/Curriculum Coordinator: Cherie Dougan
Fiscal Coordinator: Dorothy Rypka
Public Relations: Pat Zaid
College Office: McIntosh Humanities Building, Room 209
Telephone: (562) 985-5381
FAX: (562) 985-2463
Credentialed Advisors

- English - Kathleen D’Mello (985-4220)
- French, German, Spanish - Jean-Jacques Jura (985-2200)
- Japanese - Hiroko Katsurako (985-4030)
- Latin - Ileana Wild - (562) 4293
- Social Science - Tim Kier (985-4425)

Introduction

The College of Liberal Arts provides courses in the Humanities and Social Sciences for all university students, as well as for majors in its disciplines. The College is also responsible for much of the General Education required of all students and provides professional training in Journalism. Through the Liberal Arts, students acquire a fundamental understanding of social and individual behavior and of cultures and belief systems in the past and present. Communication, verbal and written, in English and other languages, and across cultures, is a fundamental emphasis throughout the curriculum. Liberal Arts disciplines also emphasize the acquisition and analysis of information and its uses to understand and help resolve complex social problems. The College of Liberal Arts is the center of the university’s commitment to developing greater knowledge and understanding of international and multicultural issues in the contemporary world. In short, the motto for the Liberal Arts is “The World is Our College.” In teaching students, CLA faculty aim high to inspire them to continue learning, to celebrate diversity, and to engage the world.

Degree Programs Offered

Bachelor of Arts:

- Anthropology
- American Studies
- Asian Studies
- Asian American Studies
- Black Studies
- Business Economics
- Chicano and Latino Studies
- Chinese Studies
- Classics
- Comparative World Literature
- Economics
- English
- Environmental Science and Policy
- Geography
- French
- French Studies
- German
- History
- Human Development
- International Studies
- Italian Studies
- Japanese
- Journalism
- Linguistics
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Sociology
- Spanish
- Communication Studies
- Women’s Studies

Master of Arts:

- Anthropology
- Asian Studies
- Communication Studies
- Economics
- English
- French
- Geography
- German
- Global Logistics
- History
- Linguistics
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Sociology
- Spanish

Master of Fine Arts in English

Master of Science in Psychology

Certificate Programs:

- Africana Studies
- American Indian Studies
- Asian Studies
- Asian American Studies
- Japanese
- Latin American Studies
- Legal Studies in the Liberal Arts
- Medieval and Renaissance Studies
- Russian-East European Studies
- Teaching English as a Second Language
- Technical and Professional Writing
- Urban Studies

Minor Programs:

- Africana Studies
- American Indian Studies
- Anthropology
- Asian Studies
- Asian American Studies
- Business Economics
- Chicano and Latino Studies
- Comparative World Literature
- Classics
- Communication Studies
- English (Literature, Rhetoric and Composition, Creative Writing, or Special Emphasis)
- Economics
- French
- Geography
- German
- Greek
- History
- International Economics
- Italian
- Jewish Studies
- Latin
- Latin American Studies
- Linguistics
- Medieval and Renaissance Studies
- Middle Eastern Studies
- Philosophy
- Political Science
- Public Administration
- Psychology
- Religious Studies
- Russian
- Sociology
- Spanish
- Women’s Studies

Language Courses:

- Arabic
- Chinese (Mandarin)
- Cambodian
- Czech
- French
- German
- Greek
- Hebrew
- Italian
- Japanese
- Latin
- Russian
- Spanish
- Swahili

Special Facilities

The College operates special facilities including anthropology, geography, language, psychology, writing, and general computer laboratories.

Student Activities

Most of the departments in the College of Liberal Arts have either a student association or honor organization which provides students with a program of activities. Students should contact the department of their major to inquire about the kind of organizations available to them or contact the College Coordinator for Student Life and Development, Zion Rodic (562-5814). The College and Associated Students promote the College Student Council with its representation from each department acting as liaison between the College administration, faculty, and members of the College’s student body. The Student Council provides a forum for the development of student leadership skills.

Internships

The College of Liberal Arts offers internships with on- and off-campus cooperating organizations designed to provide students with practice in the field under supervision.
Many individual departments also offer discipline-based internships for advanced students.

**Credential Programs**

Single subject credential programs are offered in English, French, German, Latin, Spanish, Japanese, and Social Science. Students who plan to teach these subjects in the secondary schools are strongly advised to consult the Credential Advisor in the appropriate program as early as possible in their studies, so that they fulfill subject matter preparation requirements while completing an undergraduate major.

**Courses (C/LA)**

**LOWER DIVISION**

**190. Special Topics (1-6)**
Topics of special interest in the liberal arts. Topics will be announced in the Schedule of Classes each semester. May be repeated to a maximum of 8 units with different topics in the same semester.

**195. Introduction to the Learning Community-Transition to College Success (1)**
Prerequisite: Acceptance into the Learning Alliance Program. Provides members of the Learning Alliance with introduction to learning community. Addresses scholarly and academic research skill development, literacy in basic computer skills, methods to integrate two disciplines featured in paired courses, and how to develop a personal academic plan. Initiates community volunteer and service learning requirement. Letter grade only (A-F).

**230. The Home in Comparative Perspective (3)**
Prerequisite: Completion of GE Foundation. Explores how the term “home” has been deployed in a number of different historical, political, social, economic, and geographical contexts. Analysis of primary documents and secondary texts. Conduct independent research and also explore personal meanings associated with the term “home.”

**250. Elementary Statistics (4)**
Prerequisites: Knowledge of mathematical procedures usually covered in elementary high school algebra. Introduction to descriptive and inferential statistics and their applications in social and behavioral science research; performance of statistical exercises by interactive computer. Emphasis upon knowledge of which statistical tests to use and how to interpret their results. Three units as HDEV 250. Not open for credit to students with credit in ANTH 202, HDEV 250, MATH 108, 180 or PSY 110, 210. (Discussion 3 hours, laboratory 2 hours.)

**UPPER DIVISION**

**305. British Life and Culture (3)**
Offers in-depth information on a wide range of social, artistic, and intellectual issues relevant to contemporary England. Although course is geared to students participating in the London Semester Program, materials covered are closely related to many topics covered in classes offered during students’ other work on campus. Credit/No Credit grading only.

**485. Oral History Methods (1)**
Through a series of workshops and through field experience, skills in oral history developed which enable students to use oral history either for own personal use in family history or for class projects. Not open for credit to students with credit in HIST 402.

**490. Special Topics (1-3)**
Topics of special interest in the liberal arts for intensive study. Topics will be announced in the Schedule of Classes each semester. May be repeated to a maximum of 9 units with different topics.

**491. Special Topics (2)**
Topics of special interest in the liberal arts for intensive study. Topics will be announced in the Schedule of Classes each semester.

**495. Social Science for Teachers (3)**
Prerequisite: Students must have completed all coursework in the Social Science Subject Matter Program. Capstone course for students in Social Science Subject Matter Program, offered prior to student teaching. Examination of issues in social science education in accord with topics highlighted in the California History/Social Science Framework. A grade of “B” or better is required for advancement to student teaching. Letter grade only (A-F).

**496A/596A. Interdisciplinary Research Seminar (3)**
Prerequisite: Consent of Instructor. Intensive reading and discussion of the literature, methods and current issues in interdisciplinary topic in humanities and social sciences. May be repeated to a maximum of 6 units with different topics in different semesters.

**496B/596B. Interdisciplinary Research Seminar (3)**
Prerequisite: Consent of Instructor. Intensive research on interdisciplinary topic in humanities and social sciences. May be repeated to a maximum of 6 units with different topics in different semesters.

**498. Directed Studies in Oral History (1-6)**
Consent of faculty required. Directed study on a research topic using methodology of oral history. May be repeated to a maximum of 6 units. Same course as HIST 498D. Not open for credit to students with credit in HIST 498D.

**499. Directed Studies: Professional Portfolio (3)**
Prerequisite: Senior Standing in Liberal Arts Major; permission of Instructor and Associate Dean. Qualifying students work in career-related assignments in private or public agencies or businesses, either paid or volunteer. Organized plan including continuing consultation with instructor and written reports reflecting on work experiences relating to Liberal Arts Major. Capstone-level reflection and assessment on completion of major. Minimum of 150 hours of work assignment. Credit/No Credit grading only.

**GRADUATE LEVEL**

**590/490. Special Topics (1-3)**
Topics of special interest in the liberal arts for intensive study. Topics will be announced in the Schedule of Classes each semester. May be repeated to a maximum of 9 units with different topics in different semesters.

**596A/496A. Interdisciplinary Research Seminar (3)**
Prerequisite: Consent of Instructor. Intensive reading and discussion of literature, methods and current issues in interdisciplinary topic in humanities and social sciences. May be repeated to 6 units with different topics in different semesters.

**596B/496B. Interdisciplinary Research Seminar (3)**
Prerequisite: Consent of Instructor. Intensive research on interdisciplinary topic in humanities and social sciences. May be repeated to 6 units with different topics in different semesters.
Bachelor of Arts in Liberal Studies (120 units)

The Liberal Studies major provides a rich, rigorous cross-disciplinary liberal arts program of study. There are two programs in the major: 1) The Integrated Teacher Education Program (ITEP) is for students intending to become teachers who wish to combine subject matter preparation for elementary teaching with coursework leading to a Multiple Subject teaching credential; 2) Track I is for students who seek subject matter preparation for elementary teaching as preparation for a post-baccalaureate credential program.

General Education and the Liberal Studies Major

The General Education requirements for students majoring in Liberal Studies are unique. The Liberal Studies program is not only an approved major, but also an approved alternate general education program. In completing the Liberal Studies major, students concurrently satisfy their General Education requirements. Students changing to another major from Liberal Studies, however, will be subject to the standard University General Education requirements and will want to consult the Academic Advising Center for GE advising.

The Liberal Studies Program

The Liberal Studies Integrated Teacher Education Program (ITEP) combines the study of academic subject matter for elementary school teaching with professional preparation and student teaching. Successful completion of ITEP includes both a Bachelor of Arts degree and a Multiple Subject teaching credential.

Track I of the Liberal Studies program is designed for those students who wish to pursue a Bachelor of Arts degree to prepare them in the academic subject areas relevant to elementary and special education teaching. Track I is an approved pre-professional program of subject matter preparation consistent with the standards established by the California Commission on Teacher Credentialing.

INTEGRATED TEACHER EDUCATION PROGRAM

Bachelor of Arts in Liberal Studies (code L/STBA04)

Multiple Subject Credential – Cross Cultural and Academic Development Emphasis (code 200)

The Integrated Teacher Education Program (ITEP) combines the study of academic subjects aligned to California standards for the K-8 curriculum with professional preparation courses and field experiences leading to a Multiple Subject Credential.

Upon successful completion of the program, students will receive both a Bachelor of Arts in Liberal Studies and a Preliminary Multiple Subject Credential. Within the Integrated Teacher Education Program there are 105 units of required baccalaureate-level coursework and 31 units of credential-specific coursework.

Students in the ITEP program who do not advance to the Credential portion of the program will be eligible to change majors into the Track I program and receive a B.A. in Liberal Studies and may apply for admission to the post-baccalaureate Multiple Subject Credential Program.

There are multiple pathways to the teaching profession. ITEP is designed for students who begin their undergraduate education at CSULB or who transfer into the University in pursuit of both a baccalaureate degree as well as a Multiple Subject teaching credential. Prospective credential candidates who already hold a bachelor’s degree, or who need information about other pathways and options in teacher credentialing, should refer to the sections of this catalog which describe programs in Teacher Education, Single Subject Teacher Education, and Advanced Studies in Education and Counseling. Further information about teacher preparation programs can also be obtained from the College of Education at (562) 985-9259 or by e-mail: coddinfo@csulb.edu or online at www.cse.csulb.edu.

General Education and the Integrated Teacher Education Program

As with other Liberal Studies majors, students in the Integrated Teacher Education Program have unique General Education requirements. ITEP is not only an approved major, but an approved alternate general education program. ITEP students receive their General Education advisement within the Liberal Studies office. In completing ITEP, students concurrently satisfy their general education requirements. Students changing their major from ITEP to a major other than Liberal Studies, however, will be subject to the standard University General Education requirements and will want to consult the Academic Advising Center for GE advising.
The ITEP Curriculum

The ITEP curriculum has two interrelated components. Students complete required coursework in the ITEP Core and they complete coursework in the methodology of teaching, including student teaching. Admission to this final, credential portion of the program requires that students apply and be accepted into the Multiple Subject Credential Program at CSULB. In addition, a minimum of 125 hours of service learning, coordinated by the SERVE Program in the College of Education, must be completed prior to graduation. All courses in the ITEP core must be completed with a grade of "C" or better.

Admission to the Multiple Subject Credential Program

Prior to enrollment in EDEL 300, ITEP students must be formally admitted into the Multiple Subject Credential Program (MSCP). Students should apply to the MSCP during the semester prior to enrolling in EDEL 300. Admission to the MSCP requires that the candidate: 1) purchase the MSCP for ITEP Handbook; 2) complete EDEL 200 with a grade of B or better; 3) attempt the California Basic Educational Skills (CBEST) examination; 4) attain a cumulative grade point average of at least 2.67 or 2.75 in the last 60 units of study; 5) submit a portfolio which includes a SERVE evaluation as well as a typed personal statement describing why you have chosen teaching as a career, what you hope to accomplish as a teacher, and how you view the role of the teacher; 6) attend an interview panel; 7) submit a negative tuberculosis skin test or chest x-ray taken within the last three years. Note: The California Subject Examinations for Teachers: Multiple Subjects (CSET) must be passed to advance to student teaching. All ITEP credential courses must be completed with a GPA of 3.0 or higher and no individual grade lower than "C."

The ITEP Core

A minimum of 105 units distributed in Areas I, II, III, IV, V, VI and VII. No Core classes may be taken Credit/No Credit.

Area I: Language Studies (minimum 22 units)

Group 1. Written Communication: Choose one course from ASAM 100, AFRS 100, CHLS 104, ENGL 100
Group 2. Oral Communication: Choose one course from COMM 130, 330
Group 3. Survey of Literature: Choose one course from CLSC 260, CWI 100, ENGL 180, 250 A or B, 270 A or B, 375
Group 4. Applied Composition: ENGL 309
Group 5. Language Acquisition: Choose one course from CD 325, EDSP 454, LING 329
Group 6. Children's Literature: ENGL 481
Group 7. Integration and Assessment: LIST 400

Area II: Mathematics (minimum 12 units)

Group 1. Probability and Activities-Based Statistics: MTED 205
Group 2. Real Numbers: MTED 110
Group 3. Geometry and Measurement: MTED 211 or 312
Group 4. Integration and Assessment: MTED 402

Area III: Natural Science (minimum 14 units)

Group 1. Earth Science: Choose from GEOL 102 + 104 or 106* (GEOL 106 is the preferred course)
Group 2. Life Science: BIOL 200
Group 3. Physical Science: PHSC 112

Group 4. Integration and Assessment: SCED 401

Area IV: History/Social Science (minimum 19 units)

Group 1. American History: Choose one course from POSC 100, 320*, 381 ("POSC 325 is limited to and only required of students who have met the U.S. Constitution requirement in a state other than California or through Advanced Placement credit and who must meet the Title V California State and Local Government requirements.) Group 2. World History and Geography: Take either HIST/ GEOG 250*, or HIST 211 + GEOG 100 (HIST/GEOG 250 is the preferred course)
Group 5. California History: HIST 473
Group 6. Integration and Assessment: LIST 471

Area V: Arts and Humanities (minimum 15 units)

Group 1. Music: MUS 190
Group 2. Dance or Theater: Choose one course from CWL 124, 3241, DANC 110, 179, THEA 113, 122, 3241
Group 3. Ethics, Values and Beliefs: Choose one course from PHIL 100, 160, 203, 204, 405, R/SST 100, 202, 485
Group 4. Visual Art: ART 300
Group 5. Integration and Assessment: LIST 404

Area VI: Critical Issues in Teaching and Learning (minimum 16 units)

Group 1. Information and Technology Competencies: Choose one course from ETEC 110*, 444 (*ETEC 110 is the preferred course)
Group 2. Critical Thinking: Choose one course from A/S 195, COMM 131, ENGL 102, ETEC 171, HIST 101, PHIL 170, POSC 105, PSY 130
Group 3. Child Development and Learning: Choose one course from EDP 301, HDEV 307
Group 4. Family and School Partnerships: EDSP 355
Group 5. Physical Education: KIN 476
Group 6. Health Science: HSC 411A
Area VII: Introduction to Elementary Education (Minimum 7 units)

Group 1. Teaching and Learning: EDEL 100
Group 2. Introduction to Education: EDEL 200
Group 3. Diversity in Education: EDEL 300

Student Teaching in ITEP

As the final phase of the credential program, student teaching is a half-day for four days and a full day for one day per week for two semesters. All student teachers have one placement in a K-2 classroom and one in a 3-6 classroom.

A separate application is required to advance to student teaching. Applications for student teaching must be submitted in person to the Teacher Preparation Advising Center one semester prior to the first assignment. Application packets are distributed at the Student Teaching Application meetings, which are held during the first two weeks of each semester. Dates, times, and locations are announced in methods courses, are posted throughout the EDI and ED2 buildings and appear on the Department of Teacher Education Website well in advance of actual meeting dates. Deadlines for submitting applications to student teach are:

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March 1—to begin student teaching in the Fall semester
October 1—to begin student teaching in the Spring semester.
Students should note that these deadlines are firm. Late applications are not accepted.
Students must meet the following requirements to advance to student teaching:
1. Demonstration of subject-matter competence by passage of all three parts of the California Subject Examinations for Teachers: Multiple Subjects (CSET; Multiple Subjects).
2. Passage of the California Basic Educational Skills Test (CBEST).
3. A negative tuberculin skin test or chest x-ray valid through the completion of student teaching.
4. Proof of character clearance (fingerprint background check).
5. Completion of professional preparation courses (in the MSCP) with a grade-point-average of 3.0 in all subject-specific pedagogy (methods) courses with no grade lower than "C."
6. Submission of a Student Teaching Application by the appropriate deadline.

Asian Language BCLAD

Requirements
The Bilingual Cross-Cultural Language and Academic Development (BCLAD) Emphasis authorizes teachers to work in dual language classrooms or where a language other than English is required for instruction, support, and communication with parents and other professional communication. The BCLAD Asian Language Emphasis is part of a six campus CSU consortium offering BCLAD preparation and certification in Cambodian (Khmer), Chinese (Mandarin or Cantonese), Korean, or Vietnamese. Courses are taken at CSULB and at one or more CSU campuses.

Students seeking dual language certification in Asian Languages must complete the ITEP program requirements. They also must fulfill the following additional requirements in one of the Asian language emphases (Mandarin or Cantonese, Khmer, Korean, Vietnamese):
1. Culture of Emphasis (one of the following, 3 units):
   Chinese: EWS 301, Ethnic Identity: Chinese Americans (Cal Poly Pomona)
   Cambodian: ASAM 334, Cambodian American Experience (CSU Northridge)
   Korean: AAS 450, The Asian American Child and the Schools (CSU Northridge)
   Or TED 495, Introduction to Korean Culture & Korean American Communities (CSU Dominguez Hills)
   Vietnamese: ASAM 333, Vietnamese American Experience (CSU Long Beach)
2. Bilingual Pedagogy in the Language of Emphasis (one of the following, 3 units):
   Chinese: EDEL 400, Proseminar: Curriculum and Teaching of Reading (CSU Los Angeles)
   OR EDEL 402, Bilingual Teaching English and Chinese, K-8 (CSU Long Beach)
   Cambodian: EDEL 452K, Bilingual Teaching English and Khmer, K-8 (CSU Long Beach)
   Korean: EED 580K, Teaching Reading in the Elementary School (CSU Northridge) OR TED 515A, Bilingual Education: Reading, Language Arts and Content in the Primary Language (Korean) (Cal Poly Pomona)
   OR TED 494S, Teaching for Bilingual Development in Culturally and Linguistically Diverse Settings: Korean Bilingual Education (CSU Dominguez Hills)
   Vietnamese: EDEL 452V, Bilingual Teaching English and Vietnamese, K-8 (CSU Long Beach)
   OR EDEL 448 Methods & Inquiry for Vietnamese BCLAD Candidates (CSU Fullerton)

Note: Culture of Emphasis and Bilingual Pedagogy courses may be taken before admission to the MSCP. See the Coordinator of the Asian BCLAD Consortium for information.

3. Passage of BCLAD subtest #6 in Cantonese, Khmer, Korean, Mandarin or Vietnamese language (listening, speaking, reading, and writing).
4. Student teaching in Bilingual Classrooms EDEL 482E (8 units). This requirement may be used as a substitute for one semester of 482D.

Spanish Language BCLAD

Requirements
The Bilingual Cross-Cultural Language and Academic Development (BCLAD) Emphasis authorizes teachers to work in dual language classrooms or where a language other than English is required for instruction, support, and communication with parents and other professional communication. The BCLAD Spanish Emphasis is offered on campus or through the BCLAD in Mexico program.

Students seeking dual language certification must complete the ITEP program requirements. They also must fulfill the following additional requirements for Spanish/English BCLAD:
1. Culture of Emphasis (one of the following, 3 units): CHLS 340 Latinos and Education, or CHLS 350 Latino Population in the US.
2. Bilingual Pedagogy of Emphasis (3 units): EDEL 452B, Teaching Reading in Spanish & English, K-8 (BCLAD)
3. Passage of BCLAD subtest #6 Spanish (4 parts: listening, speaking, reading and writing)
4. Student Teaching in Bilingual Classrooms: EDEL 482F (8 units). This requirement may be used as a substitute for one semester of EDEL 482D.

Education Specialist ITEP

Requirements
The Education Specialist ITEP Pathway allows students to work toward a Level I Education Specialist Credential while completing their MSCP ITEP requirements. Students should formally apply to the Education Specialist Credential program at the same time they apply to the MSCP as described earlier. Education Specialist ITEP students must complete all ITEP program requirements taking EDSP 454 in Area I, Group 6 and EDP 301 in Area VI. Group 4. Education Specialist ITEP students must complete all MSCP ITEP credential coursework and requirements as well with the following exceptions:
Students will complete only one semester of student teaching in a general education classroom instead of two.
Education Specialist ITEP students will then complete all Education Specialist Level I coursework and Field Study as listed below:

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- Education of Exceptional Individuals EDSPE 350
- Foundations of Inclusive Education EDSPE 480
- Positive Strategies in Classroom Management EDSPE 405
- Assessment and Evaluation of Students with Disabilities EDSPE 564
- Curriculum and Instruction for Students with Disabilities: Literacy, Communication, Social, and Physical Education EDSPE 567
- Curriculum and Instruction for Students with Disabilities: Math, Science, and Life Skills EDSPE 589
- Advanced Field Study and Seminar: Education Specialist Credential in Mild/Moderate or Severe Disabilities EDSPE 587 or 588B

**TRACK I (code LSTBA01)**

**Requirements**

The minimum unit requirement for the Liberal Studies Track I major is 110 units, which includes both Core and Concentration. Students select an additional 10 units to meet the campus graduation requirement of 120 units. The Track I program is both a major and an approved General Education program. This means that both General Education and major requirements are satisfied by completion of the Track I program.

The Track I Core consists of a minimum of 102 units distributed across six areas: I. Language Studies (minimum 22 units); II. Mathematics (minimum 9 units); III. Natural Sciences (minimum 14 units); IV. History and Social Sciences (minimum 19 units); V. Arts and Humanities (minimum 15 units) and VI. Learning and Well-Being (minimum 16 units). No course in the Track I core may be taken Credit/No Credit.

The Track I Concentration consists of 12-15 units of integrated course work with advisor approval. No course in the Track I concentration may be taken Credit/No Credit, and no course used to meet Core requirements may be counted toward the concentration.

In addition, 120 hours of approved service-learning in an elementary or middle school must be completed prior to graduation as a means of learning about cultural diversity in the community; about current problems besetting students in the public schools, about successful intervention strategies for students needing special attention, and promotion of individual civic responsibility.

**Service Learning**

The way to earn the required 120 hours of Service Learning is participation in the SERVE (Service Experience for Revitalizing Education) program, which provides orientation and training in addition to school placements. To participate in SERVE, students must have a 2.0 grade-point average, current TB clearance, and be available for either 2 two-hour time blocks or 4 four-hour time block during public school hours over a 10 week period during the semester. For further information and the schedule for orientation and training sessions, contact the Liberal Studies office or SERVE office (ED1-17 or online at www.csd.csulb.edu).

**Track I Core**

A minimum of 98 units distributed in Areas I, II, III, IV, V, and VI. No Core classes may be taken Credit/No Credit.

**Area I: Language Studies (minimum 22 units)**

Group 1. Written Communication: Choose one course from ASAM 100, AFRS 100, CHLS 104, ENGL 100

Group 2. Oral Communication: Choose one course from COMM 130, 335

Group 3. Survey of Literature: Choose one course from CLSC 280, CWL 100, ENGL 180, 250 A or B, 270 A or B, 375

Group 4. Applied Composition: ENGL 309

Group 5. Language Acquisition: Choose one course from CD 329, EDSPE 545, LING 329

Group 6. Children's Literature: ENGL 481

Group 7. Integration and Assessment: LSTBA 400

**Area II: Mathematics (minimum 12 units)**

Group 1. Probability and Activities-Based Statistics: MTED 205

Group 2. Real Numbers: MTED 110

Group 3. Geometry and Measurement: MTED 211 or 312

*(Students who choose a Math Concentration must take MTED 312.)*

Group 4. Integration and Assessment: MTED 402

**Area III: Natural Sciences (minimum 14 units)**

Group 1. Earth Science: Choose from: GEOL 102/104 or 106* (*GEOL 106 is the preferred course)

Group 2. Life Science: BIOL 200

Group 3. Physical Science: PHSC 112

Group 4. Integration and Assessment: SCED 401

**Area IV: History/Social Science (minimum 15 units)**

Group 1. American History: Choose one course from HIST 172, 300

Group 2. American Institutions: Choose one course from POSC 100, 326, 391 (*POSC 326 is limited to and only required of students who have met the U.S. Constitution requirement in a state other than California or through Advanced Placement credit and who must meet the Title V California State and Local Government requirement.)*

Group 3. World History and Geography: Take either HIST/GEOG 250*, or HIST 211+ GEOG 100 (*HIST/ GEOG 250 is the preferred course)

Group 4. Multicultural Dimensions: Choose one course from AIS/ ASAM/BST/CHLS/WGSS 319, ANTH 421/ LING 425

Group 5. California History: HIST 473

Group 6. Integration and Assessment: LSTBA 471

**Area V: Arts and Humanities (minimum 15 units)**

Group 1. Music: MUS 180

Group 2. Dance or Theater: Choose one course from: CWL 124, 3241, DANC 110, 179, THEA 113, 122, 3241

Group 3. Ethics, Values and Beliefs: Choose one course from PHIL 100, 160, 203, 204, 4051, RST 100, 202, 485

Group 4. Visual Art: ART 300

Group 5. Integration and Assessment: LSTBA 404

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Area VI: Critical Issues in Teaching and Learning (minimum 16 units)

Group 1. Information and Technology Competencies: Choose one course from: ENGL 337, ETEC 110, 444, MTED 301

Group 2. Critical Thinking: Choose one course from: ASTR 190, COMM 131, ENGL 102, ETFC 171, HIST 101, PHIL 170, PSYC 105, PSY 130

Group 3. Child Development and Learning: Choose one course from: EDP 301, HDEV 307

Group 4. Family and School Partnerships: EDSP 355

Group 5. Physical Education: KIN 476

Group 6. Health Science: HSC 411A

Track I Concentration

A minimum of 12 units with advisor approval, at least 9 of which must be at the upper-division (300-400) level (with the exception of the Natural Science concentration) in one of the thematic programs of study identified below. No concentration course may be taken Credit/No Credit. No course used to fulfill a core requirement may be used to fulfill a concentration requirement.

Students must gain approval for a concentration and curricular plan. Normally the proposal is submitted before the student begins to take courses in the concentration. Students declare a concentration by attending a concentration workshop. Students may sign up for a workshop at the Liberal Studies Office. Subsequent modifications of the concentration curriculum must also be approved.

Bilingual Spanish-English

Subject preparation for a Multiple Subject Credential with bilingual, cross-cultural, language and academic development (BCLAD) emphasis requires students to demonstrate proficiency in a targeted language and understanding of the culture of a targeted group. This concentration focuses on the Spanish language and Latino culture to be consistent with the requirements of the BCLAD emphasis in the CSULB credential program. The primary focus of the concentration is development of language skills. Students with demonstrated language proficiency in reading, writing, and speaking at an advanced level may seek to substitute additional culture studies for required language classes. Prior to proposing this concentration or completing any course work toward it, students should meet with the Spanish undergraduate advisor who will be able to determine language proficiency. (The following Core classes are highly recommended for students proposing this concentration: CHLS 319 in Area IV, B, Group 3; EDP 301 in Area IV, Group 1b.) Complete 15 units from:

Area 1. Language Foundations (9 units): SPAN 300, 322

Area 2. Literary Analysis (3 units): SPAN 310

Area 3. Culture Study (3 units) from: CHLS 340, CHLS 350, SOC 340

Cultures, Values and Beliefs

Focus is on humanistic study of cultural traditions, both Western and non-Western, and the values and beliefs that have shaped them. Insight will be gained into motivating and orienting ideas that have given meaning to individual lives and structured human relationships. Special attention is given to religious, philosophical and ethical perspectives. (No course used to meet requirements of the core may be used to meet the requirements of the concentration; no more than 3 units of lower-division (100-200) course work may apply toward the concentration.) Complete 15 units from:

Area 1. Western Culture (3 units):
Choose from CLSC 300I, 311I, 411I, HIST 310I, 3231, 335, 337, 339, 400I, 414I, 477A, 477B

Area 2. Non-Western Cultures (3 units):

Area 3. Values and Beliefs/Western (3 units):
Choose from HIST 371, PHIL 100, 203, 204, 330, 342, 352, 361I, R/ST 102, 3531, 391L, 425, 482, 485

Area 4. Values and Beliefs/Non-Western (3 units):
Choose from AIS 335, ASAM 380, AFRS 353, PHIL 306, R/ST 103, 3311, 341I, 344, 351

Area 5. Ethical Values (3 units):
Choose from MICR 321, PHIL 160, 363, R/ST 302I

Health, Physical Education and Life Management

Provides students with a breadth and depth of knowledge, attitudes and behaviors that prepare them in the areas of health, physical education and fitness, mental health, family life and nutrition. The areas of emphasis include substance use and abuse, family life health and sexuality education, nutrition, violence prevention (including child abuse and suicide prevention), physical activity and fitness, motor skills and stress management. (Credit in the concentration will be granted for either HSC 425I or CDFS 419, but not both.) Complete 15 units from:

Area 1. Health (3 units):
Choose from HSC 421I, 423, 425I, 427

Area 2. Physical Education (3 units): KIN 477

Area 3. Life Management (3 units):
Choose from FCS 132, 319, 419, REC 371

Area 4. Additional Selected Study (6 units):
Choose from those listed in Areas 1 and 3 not completed.

Historical Perspectives

Prepares students in the subjects identified in the History-Social Science Framework for California Public Schools which provides the rationale and coherence for this course work. Emphasis is upon historical perspective not only in terms of Western/American tradition, but also in terms of other world societies and peoples. (The following core courses are recommended for students choosing this concentration: HIST 111 in Area IV, B, Group 2; ANTH 314 in Area IV, B, Group 3 and AIS, ASAM, AFRS, CHLS or WGSS 319 in Area IV, A, Group 3.) Complete 15 units from:

Area 1. Peoples of the World (3 units):
Choose from ANTH 321, 323, 324, 332, 333, 335, GEOG 306, 316, 318, 320

Area 2. Ancient World Civilizations (3 units):
Choose from ANTH 313, 345, 347, AIS 300I, HIST 313, 314, 316, 326A, PSYC 301

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Area 3. U.S. Emerges as a Nation (3 units):
    Choose from HIST 372, 375, 477A, 485A, WGS 485A
Area 4. California (3 units):
    Choose from ANTH 322, 349, CHLS 300, GEOG 304,
    HIST 370, POSC 325
Area 5. American Society Today (3 units):
    GEOG 306, HIST 380, 474I, WGS 307I

History/Social Science

In addition to deepening their knowledge of specific subjects in this area of study, students with a concentration in History/Social Science will be exposed to the specific modes of inquiry characteristic of such disciplines as history, anthropology and geography. Each student pursuing a History/Social Science Concentration will choose one of the following areas of emphasis: California Studies, United States Studies, or Global Studies. California Studies is most appropriate for 4th grade teaching, United States Studies for 5th or 6th grade teaching, and Global Studies for 6th grade teaching. Within each area of emphasis, each student will take one course in each of the following areas: 1) Anthropological Perspectives, 2) Historical Perspectives,
3) Social and Cultural Perspectives, 4) Geographic Perspectives.

Complete 12 units from:

California Studies
Group 1: Anthropological Perspectives:
    Choose one course from: ANTH 412I, ANTH 421L, LING 425
Group 2: Historical Perspectives:
    Choose one course from: AAS 490, ANTH 349, ASAM 200, 220, 335I, CHLS 300, CHLS 335I, HIST 370, 402, 422, 471, 482
Group 3: Social and Cultural Perspectives:
    AAS 335, ANTH 322, ASAM 330, 331, 332, 333, 334,
    CHLS 380/SOC 341, POSC 323, POSC 326
Group 4: Geographic Perspectives: GEOG 120, 304

United States Studies
Group 1: Anthropological Perspectives:
    Choose one course from: ANTH 412I, ANTH 421L, LING 425
Group 2: Historical Perspectives:
    Choose one course from: AAS 105, ANTH 347, ASAM 200, 220, 335I, AFRS 120, 190, 381, CHLS 300,
    330I, 360I, ECON 360I, HIST 370, 372, 373, 378,
    481, 485A, WGS 485A
Group 3: Social and Cultural Perspectives:
    Choose one course from: AAS 335, ANTH 321, ANTH/ WGS 475, ASAM 330, 331, 332, 333, 334, 340,
    345, 346, 347, 352, 370, 380, 381, AFRS 353, 400I,
    410, 420, 423, CHLS 310, 340, 350, 415, ECON
    300, HIST 469, 471, 474I, 485B, 486, LING 470,
    POSC 323, 395I, 424, SOC 320, 325, 340, 345, 346,
    423, 466, WGS 312, 308, 315, 318I, 320, 325, 381,
    485B, 420, 430
Group 4: Geographic Perspectives:
    Choose one course from GEOG 120, 306, 401, U/ST 301

Global Studies
Group 1: Anthropological Perspectives:
    Choose one course from: ANTH 412I, ANTH 421L, LING 425
Group 2: Historical Perspectives:
    Choose one course from: ANTH 307I, ANTH 345, AFRS 350, AFRS 301, AFRS 201, 304, 430, 490, HIST 211, 304, 362,
    384, 382A, 382B, 383A, 383B, 385, 386, 391, 392, 396,
    431, 432, 492, POSC 401, WGS 402
Group 3: Social and Cultural Perspectives:
    AAS 314, 323, 332, 335I, 351, AFRS 320, 393, 459I, AFRS
    337, 404, 490, CHIN 200, ECON 300I, HIST 406B, 466C,
    POSC 220, 371, 380I, 355I, SOC 350, 460I, 494, WGS 301,
    410I, 410, 432
Group 4:

Human Behavior
Provides an understanding of basic principles underlying human behavior. Why do people interpret, believe, feel, think and act as they do? Basic issues include: How people process information and how they organize what they learn into knowledge structures; processes in social learning; how people influence other people and individual differences in ability and personality that affect behavior. These principles will be applied to specific issues in courses selected from a broad range of disciplines. (Credit in the concentration will be granted for either PSY 351 or SOC 335I, but not for both.)

Complete 15 units from:

Area 1. Basic Principles (6 units):
    Choose from ANTH 311, PSY 351, 356, 370, SOC 100, 335I
Area 2. Application/Race and Ethnicity (3 units):
    Choose from ANTH 419, ASAM 340, AFRS 310, 325, 410
Area 3. Application/Gender Roles (3 units):
    Choose from ANTH 351, CDFS 356, HIST 309I, PSY 352,
    354, 366, SOC 325, WGS 314, 325, 420
Area 4. Application/Social Environments (3 units):
    Choose from ANTH 436, CAFF 309I, 410, FIN 309I, HSC 421,
    PSY 381, SOC 320

Human/Child Development
Provides students with a background in the developmental issues of children, adolescents and adults within a family and social context. Specific areas focus on the intellectual and socioemotional development of individuals from birth through aging and the effects of the environments on their development. Factors which affect individual variability in growth and development such as gender, family, racial, ethnic and cultural differences will be explored. (The following core courses are REQUIRED for students selecting this concentration: AAS, ASAM, AFRS, CHLS or WGS 310 in Area IV A, Group 3 and ANTH 120 in Area IV B, Group 3.)

Complete 15 units from:

Area 1. Intellectual and Social Development (3 units):
    Choose from EDP 305, CDFS 314, PSY 463
Area 2. Adult Development (3 units):
    Choose from GER 460, HDEV 357I, PSY 365, SOC 464
Area 3. The Child in the Family (3 units):
    Choose from ASAM 340, AFRS 410, CDFS 319I, 412, 413
Area 4. Social Ecology of Child Development (6 units):
    Choose from AFRS 420, CHLS 350/SOC 340, EDP 302,
    EDSP 350, 485/LING 485, CDFS 411, HDEV 360, NRSY
    481I, SOC 345, 423

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Language Arts
Provides students with special appreciation for languages, literatures, and their relation to culture through study in three areas: language perspectives, which involves the study of languages (and/or language) and their relationships to literary and cultural patterns; theory and/or criticism which provides the theoretical tools for the analysis and explanation of these relationships and language processes which involves additional practice in the creative and technical aspects of producing linguistic products. (The following core classes are highly recommended for students selecting this concentration: COMM 335 in Area I, Group 2; ANTH 412 in Area IV, B, Group 3; PHIL 100, 103, 203, 204 or 305 in Area V, B, Group 1 and ENGL 200 in Area VI, Group 3a. No more than 3 units of lower division (100-200) course work may apply toward the concentration.)
Complete 15 units from:

Area 1. Language and Culture (3 units):
Choose from ANTH 413, 475, AFRS 180, ENGL 423, 426, LING 413, 423, 426, 450, COMM 309, 330, WGS 475

Area 2. Language and Literature (3 units):
Choose from AS 340, AWST 320, AFRS 140, 343, CHIN 370, CISC 191, CWL 403, 404, 410, 440, 453, ENGL 382, FREN 335, 336, GER 415, 416, JAPN 370, RUSS 340, SPAN 330, 341, WGS 382

Area 3. Language/Theory and Criticism (3 units):
Choose from CML 301, ENGL 318, 364, 410, 484, PHIL 361, 484, RVST 301, FEA 318, COMM 300, 301, 306, 333, THEA 426

Area 4. Language and Process (3 units):
Choose from AFRS 450, ENGL 205, 206, 317, 405, 406, 417, COMM 331, 385, THEA 380

Area 5. Additional Selected Study (3 units):
Choose from ENGL 375, LING 472, COMM 355

Language and Literacy
Students in the Language and Literacy concentration develop their knowledge of and appreciation for Literature while also engaging enhancing their ability to deal with literacy education through additional study of linguistics and culture.
Complete 12 units from:

Group 1. Exploring Literature:
Choose two courses from AS 340, ASAM 260, 261, AFRS 343, 346, CHIN 370, CHRLS 205, CWL 100, 410, ENGL 190, 200A, 200B, 270A, 270B, 270C, 363, 375, 382, 385, 386, 482, JAPN 370, WGS 382

Group 2. Sociolinguistics and Schooling: LING 379

Group 3. Language, Literacy and Culture:

Language Other Than English
Provides opportunity for students to gain access to advanced preparation in reading, writing and speaking a selected language other than English. Provides insights into second language acquisition and the intimate relationships linking language, cognition and culture. Students select one language in which to complete the following requirements.

Complete 15 units from:

Area 1. Advanced Language Study (6 units):
Choose from CHIN 301, 302, FREN 312A, 312B, GER 301, 302, ITAL 312A, 312B, JAPN 301, 302, RUSS 312, 399

Area 2. Conversation (3 units):
Choose from CHIN 490, FREN 214, GER 305, ITAL 214, JAPN 311, RUSS 314, SPAN 314

Area 3. Literature (3 units):
Choose from CHIN 370, FREN 335, 336, GER 415, 416, ITAL 490, JAPN 471, RUSS 310, SPAN 330, 341

Area 4. Additional Study (3 units):
Choose from CHIN 490, FREN 314, 411, 414, GER 303, ITAL 314, 490, JAPN 312, 350, 461, RUSS 499, SPAN 322

Mathematics
Provides advanced study of mathematics consistent with the philosophy of the California Framework in Mathematics and Standards of the National Council of Teachers of Mathematics for the mathematics content taught through the middle grades. (The following core courses are REQUIRED for students choosing this concentration: MTED 312 in Area II, Group 2, MTED 301 in Area V, Group 3c.) Students choosing the Mathematics Concentration must complete MTED 312 with a “C” or better grade prior to registering for MTED 402.
Complete 12 units from:

Group 1. Probability and Activities-Based Statistics:
MTED 205 (must be completed prior to enrollment in MTED 402)

Group 2. History of Mathematics: MTED 415

Group 3. Number Theory: MTED 420


Natural Science
Two pathways provide fundamental skills and abilities to deal confidently with a wide variety of scientific viewpoints applied to various important issues, concrete and significant examples of scientific thinking. Pathway A: “breadth” pathway particularly appropriate for future K-5 teachers. Choose at least one course from three different groups. Pathway B: “depth” pathway particularly appropriate for future teachers of grades 6-8 as well as for students who prefer a stronger emphasis on investigation and experimentation. Choose at least three courses from a single group.
Complete 12 units from:

Pathway A – Breadth – Choose coursework from EACH of the following groups:

Group 1. Earth Science:
Choose one course from: GEOL 160, 190, 240, 300

Group 2. Life Science:
Choose one course from: BIOL 100, 153, MICR 101, 300

Group 3. Physical Science:
Choose one course from: ASTR 100, CHEM 100, 111A, PHYS 100A

Group 4. Additional Coursework:
If necessary to reach 12 units in the Concentration, choose one course from: ASTR 101L, ASTR 101L, NSCI 309, 373L or any additional class from those listed above.
Pathway B. Depth — Choose an option and take three courses in that option:
Earth Science Option:
Choose three courses from:
GEOG 100, 190, 240, 300L, 341, GEOL 303
Life Science Option:
Choose three courses from:
Biol 100, 153, GEOL 303, MIRC 101, 300L
Physical Science Option:
Choose three courses from: ASTR 100, CHEM 100, 
111A, 111B, 302, PHYS 100A, 100B
Additional Coursework:
If necessary to reach 12 units in the Concentration, 
choose from ASTR 100L; NSCI 309L, 375L, or any 
additional class from any other of the options listed 
above.

U.S. Multicultural Studies

Students should learn from their earliest school years that our nation is composed of people whose backgrounds 
are rooted in cultures from around the world, and they 
should develop respect for the dignity of all people 
and ways of life. This concentration will help potential 
teachers to recognize that the history of community, state, region and 
nation must reflect the experience of men and women of 
different racial, religious and ethnic groups in our pluralistic 
society. (The following core course is REQUIRED for 
students choosing this concentration: AIS, ASAM, AFRS, 
CHLS or WGSS 319 in Area IV, A, Group 3. Courses 
selected should include all four major U.S. ethnic groups. 
No more than 3 units of lower division (100-200) course 
work may apply toward the concentration and no course 
used to satisfy a core requirement may be used to satisfy a 
concentration requirement.)
Complete 15 units from:

Area 1. Education in an Ethnic Perspective (3 units):
Choose from ASAM 310, AFRS 420, CHLS 340
Area 2. Multicultural Perspectives (3 units):
Choose from ANTH 141I, 421L, JING 425, EDP 432I/ 
EDEL 430, NUTR 336, HDEV 360, COMM 330, 
WGSS 401

Area 3. Ethnic Studies (9 units):
No more than one course may be selected from 100- 
200 level courses and from any one department 
(courses cross-listed with CHLS will be considered 
CHLS department courses in this context). Choose 
from AIS 105, 106, 200, 320, 340, 420, ASAM 220, 
340, 345, 370, 380, AFRS 110, 180, 370, 400L, 410, 
CHLS 300/HIST 370, CHLS 310, CHLS 350/SOC 
340, CHLS 352/SOC 341, CHLS 300

Visual and Performing Arts

Allows development of skills in responding to the arts 
as well as in creating and performing. Examines history of 
traditional Western Fine arts as well as role the arts play 
in another cultural tradition. All four components of the 
California Framework for the Visual and Performing Arts are 
addressed: Aesthetic perception, creative expression, arts 
heritage and aesthetic valuing.

Complete 15 units from:

Area 1. Perception, Expression, Heritage, Valuing (6 units):
ART 302 (Course no longer offered. See Liberal 
Studies director for substitution.), MUS 385

Area 2. Fine Arts History (6 units):
If a Theatre course was taken in the Core, include at 
least one Dance course here. Choose from AH 401, 
408, 409, 410, 416, 417, 423, 424, 425, 426, 427, 
430, 437, CML 422I, DANC 110, 435I, MUS 363I, 
364I, 365

Area 3. Multicultural and Ethnic Arts (3 units):
Choose from AIS 320, 420, AH 455, 456, 457, 466, 
467, 468, 469, 470A/B, AFRS 346, 363, MUS 490

Courses (L/ST)

400. Evaluating Literacy (3)
Prerequisites: Limited to Liberal Studies majors, who have 
completed all AREA I Core requirements with a "C" or better grade 
and consent of Chair.
Review, analysis, and assessment of K-8 California State Reading/ 
Language Arts Content Standards and Curriculum Frameworks. 
Contemporary literacy theory and practice with focus on 
language, culture, literature, and development of literacy. Literacy 
assessment and its implications, determinations, and effects.
Letter grade only (A-F).

403. Civic Issues and Values (3)
Prerequisites: Limited to Liberal Studies majors, Track I, who have 
completed all Area IV Core requirements with a "C" or better grade. 
Student literacy in the social sciences and ability to recognize and 
deal with the dynamics of a multicultural, multilingual community 
will be assessed.
Letter grade only (A-F).

404. Arts and Values (3)
Prerequisite: Limited to Liberal Studies majors, who have 
completed all Area IV Core requirements with a "C" or better grade, 
or consent of Chair.
Review, analysis, and assessment of K-8 California State 
Visual and Performing Arts Content Standards and Curriculum Frameworks. 
Relationship between arts criticism and various broader values (historical, social, 
esthetic, ethical). Impact of religion, Enlightenment philosophy, modernism, and 
multiculturalism on the arts.
Letter grade only (A-F).

471. History/Social Science Content and Standards for 
Elementary Classrooms (3)
Prerequisites: Limited to Liberal Studies majors, who have 
completed all Area IV Core requirements with a "C" or better grade.
Review, analysis and assessment of K-8 California State History/ 
Social Science Content Standards and Curriculum Frameworks. 
Student literacy in the social sciences. Integrates geographical and 
historical analysis of California, Early American and Pre-Modern 
World history within a global context.
Letter grade only (A-F).
LINGUISTICS
College of Liberal Arts

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Advisors:
Undergraduate: Lorraine E. Kumpf
Graduate: Xiaoqing Liang
CLAD: John J. Attinasi

Administrative Coordinator: Phyllis L. Simon

Career Possibilities
English as a Second Language (ESL) Teacher • Bilingual Education Teacher • Intelligence Specialist • Researcher • Teacher • Linguist • Foreign Service Officer • Peace Corps Worker • Librarian • Interpreter • Immigration Officer • Lawyer • Customs Inspector • Import-Export Agent • Philologist • Writer • Editor • Sales Representative • Consultant (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu) Various entry-level positions in business and industry are available for graduates regardless of academic discipline.

Introduction
Linguistics is the science of language. Linguistics majors study the nature of language, the similarities and differences among languages, the physical mechanisms of human languages (both spoken and signed), acquisition of languages, and socialization through languages. Areas include anthropological linguistics, psycholinguistics, sociolinguistics, and applied linguistics, including teaching English as a second or foreign language.

The Department of Linguistics at CSULB offers an undergraduate major and minor in Linguistics, an Interdisciplinary CLAD Minor, a Certificate in Teaching English as a Second Language (TESL), and the MA with four Options: TESL, General, Special, and Language and Culture.

Students desiring general information should contact the department office. Advisors are available for individual appointments during the Fall and Spring semesters to assist students with information about degree requirements and about graduate study.

Undergraduate Programs

Bachelor of Arts in Linguistics (code LINGBA01) (120 units)
The following are department goals for students receiving the BA in linguistics:
• Students will demonstrate knowledge of the fundamental architecture of language in the domains of phonetics and phonology, morphology and syntax, and semantics and pragmatics.
• Students will demonstrate knowledge of the variety of structures by which diverse human languages realize this architecture.
• Students will demonstrate knowledge of the social functions of language and the role of language as a cultural institution.
• Students will demonstrate knowledge of language variation, including historical change and dialected variety.
• Students will demonstrate skills in studying language structure and use.
• Students will demonstrate knowledge of how people acquire first and second languages and the implications for language instruction and educational policy.
• Students will demonstrate skill in critical evaluation of language research and policy.
• Students will experience the opportunity to apply linguistic knowledge in a community setting.
• Students will be able to identify applications of linguistics and related career opportunities such as education, translation, and computational linguistics.
• Students will demonstrate proficiency in English and in at least one other language.
• Students will value life-long learning in the field of linguistics.

Requirements

Lower Division: (6 units) LING 101, 170

Upper Division:
1. 12 units — LING 325, 329, 420, 421
2. 24 units — Select eight (8) courses from LING 413, 423, 425, 426, 428, 433, 470, 472, 486, 490 or PSY 438. Students may substitute up to 6 units of relevant upper-division coursework from other departments, with permission of the Linguistics advisor.

Language Requirement
Sixteen (16) units or equivalent are required. Four semesters (or their equivalent) of a language other than English, with either: (a) two semesters of an Indo-European language plus two semesters of a non-Indo-European language or (b) four semesters of any one language. Students with prior language experience can pass language requirement by examination or other evidence.
Minor in Linguistics (code LINGUM01)

A minor in Linguistics consists of a minimum of 21 units, with at least one course selected from each of five subject area categories. Although not required for the minor, foreign language courses are recommended. In selecting courses, students should be aware that some courses have prerequisites, including language proficiency.

Courses which are counted for a major may not also be counted for a minor, but students who have taken a course from any category as a part of their major may substitute an elective with approval of the Department Chair.

Requirements

Select at least one course from each category:
- Category I: Introduction: ANTH 170, LING 303;
- Category II Phonology: CD 330, FREN 414, GERM 303;
- Category III Syntax: LING 421, FREN 411, SPAN 426;
- Category IV Psycholinguistics and Neurolinguistics: EDSP 454, LING 329, PSY 438;
- Category V Language, Culture, and Society: ANTH 412, 413;
- Electives: a program total of 21 units selected from: any course listed above, CHL S 341, LING 423, 426; PHIL 484; SPAN 427; and various electives on topics courses on linguistics subjects offered through the participating departments. These topics courses are shown on an approved list available in the participating departments.

Interdisciplinary Minor in Crosscultural Language and Academic Development Studies (code COEDUM01)

The minor comprises courses that integrate studies of culture, language, learning and the academic environment, and human development. It is an interdisciplinary program designed to support career objectives related to public education in Crosscultural Language and Academic Development. The minor consists of a minimum of 18 units selected with an advisor. Courses in the department of the student’s major may not be used.

1. One course from each of the following areas (12 units):
   - Culture: ANTH 421, LING 425 or EDSP 432/4DEL 430
   - Language: EDSP 454 or LING/CD 329
   - Schooling: EDSP/LING 485
   - Development: EDSP 301, EDSP 302, HDEV 3071, or PSY 361

2. Six additional units, selected with an advisor, from the following:
   - Culture: AIS 319, ASAM 319, AFRS 319, CHLS 319, WGSS 319, ANTH 329, ANTH412, ANTH/LING 413, ANTH 419, ANTH 421/LING 425, ANTH/WGSS 475, CHLS/ASAM 351, EDSP 432/4DEL 430
   - Language: ANTH 170; CHLS 402; EDSP 454; ENGL 327; LING/CD 329, LING 325, 3631, 472, 486
   - Schooling: AIS 361, ASAM 310, AFRS 420, CHLS 340, EDSP 305, 476, EDSP 350
   - Development: EDSP 301, 302, HDEV 3071, PSY 361

Graduate Programs

Master of Arts in Linguistics

The program for the M.A. degree in linguistics is designed both for students who wish to pursue further graduate study and those seeking a terminal degree. The program seeks to blend theoretical and applied aspects of linguistics and draws from a variety of disciplines.

The M.A. degree in linguistics offers three options and one concentration:
1. General Linguistics Option
2. Language and Culture Option
3. Teaching English as a Second Language Option
4. Special Concentration

Graduate assistantships may be available to qualified students.

Prerequisites

1. A bachelor's degree with a 3.0 GPA for the most recent 60 units;
2. 21 units of undergraduate coursework as follows (can be taken at CSULB):
   - A. Fifteen (15) units in Linguistics, the following courses or equivalent: Introductory Linguistics (LING/ANTH 170 or LING 325), Language Acquisition LING 329, Phonology LING 420, Syntax LING 421, language variation (LING, 379, 413, 425, 426, 438 or 472), and
   - B. Six (6) units either in linguistics or a language-related field (such as TESL, rhetoric, literature in another language, cross-cultural communication, cognition, or artificial intelligence).

Advancement to Candidacy

1. Satisfaction of the general university requirements for advancement to candidacy, including prerequisites, the Graduation Writing Assessment Requirement (GWAR), and 3.0 GPA.
2. Completion of the foreign language requirement, either:
   - A. Two courses of a foreign language at the upper division level, or the equivalent, or
   - B. Two courses of an Indo-European language and two courses of a non-Indo European language, or equivalent.
3. Completion of six units of course work within the program, exclusive of any classes used to meet prerequisites.
4. Approval of the candidate's graduate program by the Graduate Advisor, the Associate Dean for Instructional Programs of the College of Liberal Arts, and any other individuals identified by relevant university policy.
5. Advancement must take place no later than the semester before the student graduates.

Requirements

1. A minimum of 33 units of approved upper division and graduate courses for the thesis path or a minimum of 34 units of approved upper division and graduate courses of the comprehensive examination path, including
2. A minimum of 21 units at the 500 or 600 level;
3. The completion of the five course core requirement for the degree;
4. The completion of requirements of one of the options or the Special Concentration designated in the program;
5. Completion of one of two culminating experiences:
   A. A thesis and its accompanying oral defense and oral examination (LING 698, 6 units).
   B. The comprehensive examination and its accompanying graduate paper (LING 697, 1 unit).
6. A GPA of 3.00 on all courses included in the program.

Core
1. Two courses from the following three: LING 620, 625, 633.
2. One course from the following: LING 540, 610, 650.
3. One course from the following: LING/PSY 539.
4. One course from the following: LING 590/ANTH 570, LING 596.

General Linguistics Option (code LINGMA02)
The option includes a 15-unit core and 12-18 units of additional selections, including general linguistics courses from the core, such that students take LING 620, 625, 633, 650, 640, 650 and LING/PSY 539. Courses will total 33 units (including LING 668, 6 units) in the thesis pathway, or 34 units (including LING 697, 1 unit) in the comprehensive exam pathway.

Language and Culture Option (code LINGMA03)
This option includes the 15 unit core; the specialization includes: LING 553/ANTH 530, ANTH 630, LING 540, and approved selections from LING/ANTH 413, LING 423, LING 425/ANTH 421, LING 470/ANTH/WGSS 475, LING 650, ANTH 660, ANTH 597; and 697 or 698 for the culminating experience.

Teaching English as a Second Language Option (code LINGMA04)
The TESL option includes a 15 unit core, and either the Comprehensive Exam or Thesis Pathway.
   Comprehensive Exam Pathway: (19 units) required: LING 486, 500, 561, 562, 593, and either LING 560 or 575; plus 1 unit of comprehensive directed research, LING 607.
   Thesis Pathway: (18 units) required: LING 486, 593, and two of the following: LING 500, 561, or 562; plus 6 units of thesis research, LING 698.

Special Concentration (code LINGMA01)
This concentrations is 12-18 units. Students electing this concentration must [1] consult with the Graduate Advisor about their proposal; [2] submit a written justification for the course of study they wish to take, including [3] a list of the classes which are proposed to meet the objectives of this special program. Both the written justification and the course list are subject to approval. Other requirements of the program (e.g. a five course core, GPA, culminating experiences, etc.) cannot be waived or altered by use of the special concentration.

Students wanting graduate credit for certain 400-level courses must consult with the Graduate Advisor before enrolling.
Courses with an "I" suffix are not available for graduate credit.
Note: Graduate students are required to register for the higher (500-level) course whenever a course has a double number. Students may not repeat courses by taking them under different prefix designations, numbers, or titles unless the course description specifically permits.

Certificate in Teaching English as a Second Language (code ENGLCT02)
The Graduate Certificate in Teaching English as a Second Language (TESL) is open to students from any field who desire training for teaching English to speakers of other languages. While the program may be begun as an undergraduate, at least 18 units must be completed as a post-baccalaureate student.

Prerequisites
1. A baccalaureate degree with a GPA of 3.0 on the last 60 units.
2. One introductory course in linguistics: LING 170 or equivalent.

Requirements
1. Twenty-four units, including:
   A. 20 taken in residence;
   B. 18 taken as a graduate student;
   C. 12 taken at a 500-600 level.
   NOTE: Categories A-C combined need only equal 24 units.
2. A GPA of 3.0 in all courses included in the program.
3. Fulfill the Graduation Writing Assessment Requirement (GWAR).
4. Eight courses, one each in eight different categories:
   A. One course in basic ESL methodology: LING *436.
   B. One course in cross-cultural communication: LING *425 (ANTH *421).
   C. One course in language acquisition: LING 329.
   D. One course in intermediate level linguistics: LING 420 or 421.
   E. One course in testing and assessment: LING 562.
   F. One course in curriculum: LING 561.
   G. One course in specialized methodology: LING *460 or 575.
   H. Three units of a practicum: LING 593.
Students who have taken equivalent courses in the above categories but need units to complete certificate requirements may elect to take courses as advised.

Students wanting graduate credit for 400-level courses which have not been approved for graduate credit by the home department must consult with the Program Director or Graduate Advisor before enrolling. Courses with an "I" suffix are not available for graduate credit, but may be used for the Certificate if they were taken while the student was an undergraduate.
Courses (LING)

LOWER DIVISION

101. Introduction to the World's Languages (3)
Prerequisite: ENGL 100.
General introduction to roles that the world’s languages have played historically, socially, culturally and politically. Nature of language, how languages operate, differ, and relate to each other. Contact between languages and change over time. Spoken and written forms of language.

151. Fundamentals of American Sign Language I (3)
Prerequisite: One GE foundation course which may be taken concurrently.
For those who are beginning ASL, or who have had less than two years of high school ASL or equivalent, introduction to pronunciation, receptive and expressive conversational skills without voice, and grammatical structures of American Sign Language (ASL). Includes development of appropriate linguistic/cultural behaviors and awareness of oneself and respect for Deaf Culture.
Letter grade only (A-F).

152. Fundamentals of American Sign Language II (3)
Prerequisite: LING 151 or equivalent.
Second semester introduction to pronunciation, receptive and expressive conversational skills without voice, and grammatical structures of American Sign Language (ASL). Includes development of appropriate linguistic/cultural behaviors and awareness of oneself and respect for Deaf Culture.
Letter grade only (A-F).

170. Introduction to Linguistics (3)
Prerequisite/concurrent: Any GE Foundation course.
Nature of language; its relation to culture; language structure and processes of change; language universals, contrasts and relationships.
Same course as ANTH 170. Not open for credit to students with credit in ANTH 170.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

325. Modern English Grammar (3)
Introduction to current descriptions of English grammar, with reference to structural and transformational models of American English as well as to traditional ones.
Not open for credit to students with credit in ENGL 325. Letter grade only (A-F).

329. Introduction to Language Acquisition (3)
Introduction to the study of the acquisition of first and second languages. Linguistic perspectives on the development of phonological, syntactic, semantic, and pragmatic aspects of language. The influence of developmental stages and social and cultural factors on the individual.
Letter grade only (A-F). Same course as C D 329. Not open for credit to students with credit in C D 329.

339. Linguistics for Crosscultural Academic Development [In Secondary School Settings] (3)
Principles of language structure, variation and usage for educators. First and second language acquisition, and related social, cultural and political issues regarding language behavior in middle and high schools. Influences on language attitudes, maintenance and shift.
Letter grade only (A-F). Not open for credit to students with credit in EDSE 329.

363L. Implications of Human Language (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Human language as examined from the perspectives of linguistics and related disciplines. Topics include language acquisition, individual and group differences in the acquisition and use of language, and the social meanings and cultural contexts of language use.

379. Sociolinguistics and Schooling (3)
Prerequisite: LING 325 or equivalent.
Study of language variation in relation to standard language development in society and individuals. Key sociolinguistic concepts: dialect, speech event, repertoire, language community, prescriptive vs. descriptive. Application to verbal classroom language and the development of academic speaking, reading and writing.
Letter grade only (A-F). Not open for credit to students with credit in EDEL 379.

413. Language and Culture (3)
Holistic of language to social and cultural practices and processes: issues of meaning, identity and power within and across cultures.
Same course as ANTH 413. Not open for credit to students with credit in ANTH 413.

420. English Phonology (3)
Prerequisites: Consent of instructor.
Study of the phonology of American English, using articulatory phonetic, phonemic, and distinctive feature analyses.
Not open for credit to students with credit in ENGL 420 or 420L. Letter grade only (A-F).

421. English Syntax (3)
Prerequisites: ENGL 325 or consent of instructor.
Study of the morphology and syntax of American English, using structural, transformational, and recent models.
Not open for credit to students with credit in ENGL 421 Seminar.
Letter grade only (A-F).

423. Semantics (3)
Study of meaning in language.
Same course as ENGL 423. Not open for credit to students with credit in ENGL 423.

425. Education Across Cultures (3)
Same course as ANTH 421.

426. History of the English Language (3)
Development of the English language from its beginnings to the present day.
Same course as ENGL 426. Not open for credit to students with credit in ENGL 426.

428. Applied Linguistics (3)
Linguistic research applied to the study and teaching of linguistics and language skills.
Not open for credit to students with credit in ENGL 428/524. Letter grade only (A-F).

431. Cultural and Linguistic Diversity in Schools (3)
Multicultural education, including concepts of culture, educational equity, social justice, multiple forms of diversity, and anti-bias/anti-racist curriculum. Models of English language acquisition, bilingual education theory, and instructional accommodations for diverse students.
Letter grade only (A-F). Ten hours fieldwork. Same course as EDEL 431. Not open for credit to students with credit in EDEL 431 and EDP 431.

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**GRADUATE LEVEL**

**500. Educational Linguistics (3)**
Prerequisites: Nine units of linguistics or consent of instructor.
Graduate introduction to roles of language and linguistics in contemporary education; analysis of context of language acquisition; attitudes toward multilingualism; language policies which set guidelines and expectations for instruction, cultural factors which influence language acquisition.
Letter grade only (A-F). Not open for credit to students with credit in LING 530. (Discussion)

**533. Ethnography of Communication (3)**
Prerequisite: Graduate standing.
Study of talk and other forms of communication from an ethnographic perspective. Emphasizes relevant methods and theories. Major topics presented include: language socialization, genres of speaking, intercultural communication, speech styles, strategic uses of language, and literacy.
Letter grade only (A-F). Same course as ANTH 530. Not open for credit to students with credit in ED P 577.

**539. Language Acquisition (3)**
Prerequisites: Six units of linguistics or upper division psychology, or consent of instructor.
Theory and research on acquisition of first and subsequent languages in children and adults. Psycholinguistic perspectives on phonological, syntactic, semantic, and pragmatic aspects of language. Interacting roles of cognitive processes, individual differences, social influences, and cultural context will be stressed.
Letter grade only (A-F). Same course as PSY 539. Not open for credit to students with credit in PSY 530.

**540. Sociolinguistics (3)**
Prerequisite: Nine units of linguistics or consent of instructor.
Study of the linguistic and social antecedents, correlates, and consequences of language variation in the individual and society. Integration of theoretical models and practical fieldwork.
(2 hrs seminar, 3 hrs lab.)

**560/460. TESL Composition (3)**
Introduction to the rhetoric and composition of students with limited English proficiency. Attention to both the general principles of composition, and the specific issues that face students and teachers in an ESL context.
Letter grade only (A-F).

**561. Second Language Curriculum Development (3)**
Prerequisite: LING 421 or consent of the instructor.
Study of the content of second language instruction, from nongrammatical, communicative approaches to content-based instruction. The course will look at both K-12 and adult language instruction.

**562. Second Language Testing and Assessment (3)**
Prerequisite: LING 421.
Testing and assessment of second language learners, including both standardized tests and teacher-developed modes of assessment.
Letter grade only (A-F).

**575. Literacy and Linguistics (3)**
Prerequisites: Six units in linguistics or consent of instructor.
General introduction to field of literacy studies. Examines relationship between oral and written language, native language literacy and biliterate acquisition, pedagogical practices and issues, and cognitive and sociocultural approaches to literacy development.
Letter grade only (A-F). Not open for credit to students with credit in ED P 575.

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524. **Linguistics** • 2009/2010 CSULB Catalog
580. Linguistic Field Methods (3)  
Prerequisite: An introductory linguistics course.  
Introduction to linguistic field work with a native speaker of an  
unfamiliar non-European language. Phonetic transcription and  
investigation of phonological, morphological, and syntactic  
structures of the selected language within the context of linguistic  
universalism.  
Letter grade only (A-F). Same course as ANTH 570. Not open for  
credit to students with credit in ANTH 570.  
590. Advanced Special Topics in Linguistics (1-3)  
Prerequisite: Consent of instructor.  
Advanced study of special topics of current interest and concern  
to students in linguistics and allied areas.  
Topics will be announced in the Schedule of Classes. May be  
repeated to a maximum of 6 units with different topics. Letter  
grade only (A-F).  
593. Practicum in TESL (3)  
Prerequisite: LING 442.  
Combined experience in teaching English as a Second Language  
supplemented by reading, discussion, and research. Students  
must pass this to be assigned to regularly scheduled ESL  
classes five hours per week, as well as for meetings with the  
instructor.  
Letter grade only (A-F).  
595. Qualitative Research Methods (3)  
Comprehensive introduction to theory, nature, and use of  
qualitative methods in educational settings. Emphasis on  
application of valid research experiences such as identifying and  
developing research problems appropriate for qualitative investigation,  
study design, qualitative/research data collection techniques, data  
analysis, data interpretation, and presentation of findings.  
Same as EDP 595. Letter grade only (A-F).  
596. Research in Linguistics (3)  
Prerequisite: Advancement to candidacy for the M.A. in  
Linguistics.  
Principles and practice of quantitative and qualitative research  
design, analysis and reporting. Access to sources, evaluation of  
published research, application of tools. Preparation of research  
proposals.  
Letter grade only (A-F). (Seminars, 2 hours; Laboratory, 3 hours.)  
597. Directed Study in Linguistics (1-3)  
Prerequisite: Consent of instructor and advisor.  
Directed study on issues and topics in Linguistics. Not intended to  
replace available courses.  
610. Historical Linguistics (3)  
Prerequisite: LING 460 and 421 or equivalent.  
Advanced study of language change, language families, and  
language relationships using the methods of comparative  
linguistics.  
(2 hours seminar; 2 hours laboratory) Letter grade only (A-F).  
620. Seminar in Syntactic Theory and Analysis (3)  
Prerequisite: LING 451.  
Theories and practices of selected views of syntax in  
contemporary linguistics. Topic may vary from semester to  
semester.  
Letter grade only (A-F).  
625. Seminar in Phonetics and Phonology (3)  
Prerequisite: LING 420.  
Theory and practice of selected views of phonetics and phonology  
in contemporary linguistics.  
(Seminars, 2 hours; Laboratory, 2 hours) Letter grade only (A-F).  

633. Discourse and Grammar (3)  
Prerequisite: LING 421 or consent of instructor.  
Discourse analysis within linguistic theory and method. Focus  
on the relationship of discourse and grammar; relationship of  
morphosyntactic devices to discourse context and of information  
flow to grammar. Pragmatic motivation for grammatical systems.  
Relationships of grammar and genre.  
Letter grade only (A-F).  
650. Seminar in Bilingualism (3)  
Prerequisites: LING 420, 421 or consent of instructor.  
Advanced study of degrees of bilingualism and types of bilingual  
situations. Implications of bilingualism and bilingual social  
situations for linguistics and education.  
Letter grade only (A-F).  
697. Directed Research (1)  
Prerequisite: Advancement to candidacy for the M.A. in  
Linguistics.  
Research in linguistics on a topic connected with the  
Comprehensive Project and Examination for the Master's degree.  
Letter grade only (A-F). May be repeated to a maximum of 3 units.  
698. Thesis (1-6)  
Prerequisite: Consent of graduate committee.  
Planning, preparation and completion of a thesis in linguistics.  

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MANAGEMENT AND
HUMAN RESOURCES MANAGEMENT
College of Business Administration

Department Chair: Roger R. Stanton
Department Office: College of Business Administration (CBA) 321
Telephone: (562) 985-4763

Faculty: David J. Abrami, Josh A. Arnold, Philip S. Chang, Chellin Cummings, Asoke Dey, Eric Hensen, Sai Kolpak, Jonathan S. Monat, Richard A. Opland, Sabine Reddy, Daniel Rotting, Vicki M. Scheinw, Roger R. Stanton, Judy Strausis, Xuemei (Sherry) Su, Mark Washburn, Jun Yan

Administrative Support Coordinator: Laura Wickman

For MBA with Specialization in Management and Human Resources Management, see Business Administration, Graduate Programs.

Career Possibilities
Management Trainee • Retail Manager • Buyer • Bank Manager • Credit Manager • Property Manager • Hotel Manager • Restaurant Manager • Office Manager • Project Manager • Sales Representative • Insurance Office Manager • Assessor • Industrial Traffic Manager • City Manager • Community Services Director (Some of these careers require additional education or experience.) Various entry-level trainee positions in business and industry are available for graduates regardless of academic discipline.

Undergraduate Programs

Bachelor of Science in Business Administration

Requirements
A minimum of 120 units required to graduate with an undergraduate business degree from CSULB. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. ACCT 201; ECON 100, 101; BLAW 220; MATH 108 or 114, 115, and PHIL 160 or 170.
2. All business and pre-business majors shall demonstrate computer literacy and competency prior to taking junior and senior level courses. Requires one of the following:
   A. Passing score (70%) on the Computer Proficiency Examination (CPE).
   B. Completion of IS 233 with Credit (C) or “C” or better grade in a transfer equivalent course.

3. Upper Division:
   A. CBA 300; ACCT 310; ECON 333; FIN 300; BLAW 320; IS 300, 301, 310; HRM 360; MGMT 300; MKTG 300.
   B. MGMT 425 (Capstone) must be taken at CSULB as a senior and after the upper division prerequisite core courses have been completed (ACCT 310 or 320, FIN 300; MGMT 300; MKTG 300, IS 301).

4. Elective courses to total 120 units required. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

Option in Management
(code MGMTBS01) (120 units)

The objective of the management curriculum is to prepare students for a successful career in management of the business enterprise. Attention is given to the need to create and maintain a desirable internal environment. Interface of that environment with the external environment in relation to success of the enterprise is considered. Philosophical basis for the practice of management, ethical considerations and human values are stressed. The student’s exposure to theory and concepts leads to the acquiring of knowledge and skills to assume first professional positions and progress through middle and upper management careers.

Requirements
1. MGMT 426;
2. 12 units selected from MGMT 326, 405, 410, 411, 412, 413, 414, 421, 430, 454, 455.

Option in Operations Management
(code MGMTBS02) (120 units)

The objective of the operations management curriculum is to prepare and stimulate student competence in the conceptual, systematic and analytical tools prerequisite for entry level and advanced positions in goods-producing and service-orientated industries. Emphasis is placed on the systems approach which stresses the concepts, techniques and policies essential for the economical and effective design, operations and control of manpower, facilities, materials, capital and informational inputs of organizations. Students are introduced to productivity tools such as Total Quality Control, Manufacturing Resource Planning, Just-In-Time Techniques, Simulation and Animation of Production Operations, Optimized Production Techniques, Kanban Systems, Japanese Productivity Techniques, Decision Support Systems.

Requirements
15 units to be taken as follows:
1. Six units from MGMT 410, 411;
2. Three to nine units from MGMT 412, 413, 414;
3. Up to six units from MGMT 426, 430, 454, 455.

Option in Human Resources Management
(code MGMTBS03) (120 units)

The Human Resources Management Option is designed not only for those who have an interest in working in the functional areas of HRM, but also for everyone who wants
405. International and Comparative Management (3)
Prerequisites: MGMT 300, IS 301.
Functions of management in international business; comparative management studies, and the impact of the environment on management performance.
Lettor grade only (A-F).

406. International Business Policy (3)
Prerequisite: MGMT 300, IS 301.
Developing multinational strategies and policies. International economics, economic development, international marketing, international finance, multinational planning, organization, and control. International transactions, economic and political integration, the competitiveness of countries, relations with host societies, and country studies. Case studies and research projects.
Lettor grade only (A-F).

410. Materials Management (3)
Prerequisites: MGMT 300, IS 301.
Basic frameworks for managing material flows into, within, and out of organizations. Inventory models for independent demand items, material requirement planning, and distribution systems. Heavy emphasis on learning supported by MRP II tools and other computer resources.
Lettor grade only (A-F).

411. Production Planning (3)
Prerequisites: MGMT 300, IS 301.
Demand management and production planning problems. Study of forecasting tools and techniques using available computer resources. Examination of aggregate planning, master scheduling, and capacity planning using the framework of an MRP II system.
Lettor grade only (A-F).

412. Production Control (3)
Prerequisites: MGMT 300, IS 301.
Scheduling, controlling, and evaluating manufacturing activities at the shop-floor level. Shop order release, dispatching, priority control, queue management, and input/output monitoring using MRP II software. Job sequencing and scheduling, just-in-time production, Kanban control, and optimized production/technology (OPT) use of software and simulations.
Lettor grade only (A-F).

413. Managing Quality for Productivity (3)
Prerequisites: MGMT 300 and recommended IS 310, IS 301.
Relationship between productivity and quality. Examination of the quality assurance function, statistical quality control, and lot inspection. Relationship between productivity improvement, product quality, and manufacturing strategy.
Lettor grade only (A-F).

414. Purchasing Management (3)
Prerequisites: MGMT 300, IS 301.
Functions, principles, and tools of purchasing management. Relationship of purchasing to other management functions. Use of MRP II systems to simulate purchasing decisions, monitor performance, and track costs.
Lettor grade only (A-F).

421. Entrepreneurship and New Venture Creation (3)
Prerequisites: MGMT 300, IS 301.
Starting a new business. Being an entrepreneur in a free enterprise environment or an entrepreneur in an existing organization. Use of state-of-the-art theory to plan and evaluate business startups. Testing ideas with successful entrepreneurs and creating individual business plans.
Lettor grade only (A-F).
### Management Courses (MGMT)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>425.</td>
<td>Business Strategy and Policy (3)</td>
<td>ACCT 310 or 320; MGMT 300, MKTG 300, FIN 300, IS 301.</td>
<td>Integration and application of knowledge theories and techniques derived from the study of business disciplines. Use of the case method and business simulations to formulate business strategies and plans. Written reports required. Letter grade only (A-F).</td>
</tr>
<tr>
<td>426.</td>
<td>Management and Information Systems (3)</td>
<td>IS 300, 301.</td>
<td>Concepts for evaluation and design of decision support systems, management decision models, and socio-technical systems for implementing information system changes. Letter grade only (A-F).</td>
</tr>
<tr>
<td>430.</td>
<td>Project Management (3)</td>
<td>MGMT 300, IS 301.</td>
<td>Selection of project ideas and implementation of projects. Rules of team member and project manager. Project planning and organization. Budgeting, scheduling, monitoring and controlling, including computerized network models and project management software packages. Final project analysis and termination. Letter grade only (A-F).</td>
</tr>
<tr>
<td>454.</td>
<td>Organization Theory (3)</td>
<td>MGMT 300, IS 301.</td>
<td>Design and adaptation of organizations. Development of tools for analysis and design. Exploration of organizational structure. The organization as a system of authority, a political system, and an information and coordination device. Cases and computer simulations. Letter grade only (A-F).</td>
</tr>
<tr>
<td>455.</td>
<td>Managerial Decision Making Processes (3)</td>
<td>MGMT 300 and either HRM 360 or 361, IS 301.</td>
<td>Setting objectives, identifying and evaluating alternative courses of action, choosing and implementing the decision, and controlling results. Use of research to explain the influence of task, people, organization, and environment on the decision process. Processes to improve decision making skills. Letter grade only (A-F).</td>
</tr>
<tr>
<td>485.</td>
<td>Selected Topics (1-3)</td>
<td>GPA of 3.0 in Management courses, plus consent of instructor, IS 301.</td>
<td>Topics and issues of critical importance to management. Development of critical thinking, writing, and speaking skills. Topics to be announced in Schedule of Classes each semester. May be repeated to 6 units. Letter grade only (A-F).</td>
</tr>
<tr>
<td>497.</td>
<td>Directed Studies (1-3)</td>
<td>Consent of Instructor, individual projects, research, and study of advanced nature in management.</td>
<td>Letter grade only (A-F).</td>
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</table>

### Human Resources Management Courses (HRM)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>360.</td>
<td>Organizational Behavior (3)</td>
<td>Overview of the dynamics of human behavior in organizations and implications for management. Motivation, personality, and attitudes, human perception, groups and teams, norms, power and politics, conflict, learning, communication, job design, organizational culture, organizational change, leadership, and cross-cultural issues. Letter grade only (A-F).</td>
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<tr>
<td>361.</td>
<td>The Human Resource Function (3)</td>
<td>Overview of human resource functions designed to attract, motivate, develop, and retain employees. Planning, job analysis, recruitment, selection, placement, appraisal, compensation, and benefit administration, training and development, communications, labor management relations and the international environment. Discussion, cases and student presentations. Letter grade only (A-F).</td>
<td></td>
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<tr>
<td>446.</td>
<td>Leadership and Motivation in Organizations (3)</td>
<td>HRM 360, IS 301.</td>
<td>Determinants of effective leadership and successful methods of motivating employees to achieve organizational goals. Identification of appropriate styles of leadership and methods for developing and applying leadership skills. Case studies, research, and simulation exercises. Letter grade only (A-F).</td>
</tr>
<tr>
<td>450.</td>
<td>Managing Organizational Culture and Cultural Diversity (3)</td>
<td>HRM 360 or HRM 361, IS 301.</td>
<td>Impact of diversity, culture, and ethnic origin on the work experience. Interaction of language, gender, race, tradition, education, economic structure, and organisational philosophy to create a set of rules for acceptable behavior in complex organizations. Open dialogue, debate, outside research and group presentations. Letter grade only (A-F).</td>
</tr>
</tbody>
</table>
462. Labor-Management Relations (3)
Prerequisite: IS 301.
Principles and practices influencing labor-management relationships. Development, aims, structure, and functions of labor and employer organizations; collective bargaining process; labor law and governmental intervention; impasse resolution; unions and minorities; employee organizations in government and professional sectors; comparative international systems.
Letter grade only (A-F).

463. Organizational Training and Development (3)
Prerequisite: HRM 350 or 361, IS 301.
Review of the field of training and development including learning theory, training needs assessment, design and delivery of training and development programs, evaluation, and program management. Career development and organizational development. Case studies, research, simulation exercises, and student presentations.
Letter grade only (A-F).

465. Personnel Selection and Appraisal (3)
Prerequisite: HRM 361, IS 301.
Letter grade only (A-F).

497. Directed Studies (1-3)
Prerequisites: Consent of instructor and Department Chair; and 3.0 GPA or higher in human resources management courses.
Individual projects, study and research of advanced nature in human resources management.
Letter grade only (A-F).
4. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

Option in Marketing (code MKTGUM01)

(120 units)

The discipline of Marketing, which is fundamental to all business enterprises, is largely a social process. The justification of any enterprise, be it involved in service or in the production or delivery of goods, is that it meets the needs of individuals or segments of society. The function of marketing is to determine those needs, to provide the most effective means of informing actual and potential customers of the availability of the services and goods they require, and to deliver such services and goods.

Requirements

1. Nine units selected from MKTG 310, 330, 410, 420, 430, 437, 465, 480, 481, 492.
2. MKTG 470, 490, 494.

Minor in Marketing (code MKTGUM01)

Requirements

1. MKTG 300;
2. 15 Units selected from MKTG 310, 330, 410, 420, 430, 437, 465, 470, 480, 481, 490, 492, 496 or CBA 300 as approved by the Marketing Department.

Prerequisites

1. IS 310 is a prerequisite for MKTG 470;
2. MKTG 480 is a prerequisite for MKTG 481;
3. MKTG 300 is a prerequisite for MKTG 420, 430, 465, 470, 480, 481, 490 and 492.

Courses (MKTG)

UPPER DIVISION

300. Marketing (3)

Recommended preparation: ECON 300.
Relation of marketing system to other activities in the firm. Firms and domestic and world marketing environments. Economic and social effects on marketing. Human behavior's effects on marketing, communications, information systems, management problems and their solutions.

310. Retail Concepts and Policies (3)

Overview of the retail system. Retail decision making emphasized in relation to these areas: store operation and management, merchandise assortment and pricing, store location and layout, advertising and sales communication, consumer analysis, retail information systems, retail accounting and control.

330. Mass Marketing Communications: Advertising (3)

Principles and practices of advertising. Social and economic importance of advertising and its relation to modern business organization. Importance of an advertising plan, preparation of advertisements, copy and layout, media planning and application of information technology.
410. Services Marketing (3)
Prerequisite: MKTG 300, IS 301.
Applies marketing management techniques, marketing strategies, and processes for service evaluation and service quality improvement to service marketing. Characteristics of services marketing, service management, service evaluation, techniques for improvement, services marketing in global environments, and marketing techniques.
Letter grade only (A-F).

420. Sales Management (3)
Prerequisite: MKTG 300, IS 301.
Management of the sales force. Sales analysis, forecasting techniques, account and territory management, and negotiations. Integrating the personal computer into the sales function. Computer simulation of the decision process in sales management.

430. Promotion Strategies (3)
Prerequisite: MKTG 300, IS 301.

437. Internet Marketing (5)
Prerequisites: MKTG 300, IS 301.
Familiarization with Internet history & Internet technology. Analysis of consumer behavior (domestic and international) on the Internet. Business models; advertising and promotions; website design; pricing; and marketing research using the Internet. News and recent developments in e-commerce are a focus of the class.
Letter grade only (A-F).

465. Business To Business Marketing (3)
Prerequisite: MKTG 300, IS 301.

470. Marketing Research (3)
Prerequisites: MKTG 300, IS 301, 310.

480. International Marketing (3)
Prerequisite: MKTG 500, IS 301.
The study of global marketing theory and practice. The historical, economic, cultural, political, and legal factors that affect marketing decision-making outside the U.S. How to develop and present plans for expediting global marketing opportunities.

481. International Marketing in Selected Markets (3)
Prerequisite: MKTG 300, IS 301.
Taught as a special topics seminar. Depending upon the instructor, topics may include marketing within specific regions such as Asia or Europe, marketing in developing countries, or international aspects of the marketing mix such as global advertising and global retailing.
Letter grade only (A-F).
MATHEMATICS AND STATISTICS
College of Natural Sciences and Mathematics

Department Chair: Robert A. Mena
Undergraduate Associate Chair: Kent G. Merryfield
Graduate Associate Chair: Ngo N. P. Vot
Department Office: Faculty Offices (FO) 3 - 120
Telephone / FAX: (562) 905-4721 / (562) 981-6227
Website: www.csub.edu/departments/math


Administrative Support Coordinator: Linda Daxon
ELM Coordinator: Larry Brownson
Advisors:
Undergraduate:
General - William L. Murray
Applied Math - Melvin D. Lux
Statistics - Alan M. Soifer
K-8th Teaching - Lindsay Tafre
Honors in the Major: Kent G. Merryfield
Credit: Angelo Segallis
Graduate:
General - John O. Brevik
Applied - Luen Hei Kim
Mathematics Education - Babette M. Benken
Statistics - Alan Soifer (Fall), Sung Eun Kim (Spring)

Students desiring information should contact the department office for referral to one of the faculty advisors.

Career Possibilities
Mathematician • Statistician • Operations Research Analyst
• Computer Programmer • Wage/Salary Analyst • Teacher • Systems Analyst • Financial Analyst • Corporate Accountant
• Actuary • Surveyor • Information Scientist • Economist
• Securities Analyst • Efficiency Engineer • Meteorologist • Technical Writer • Demographer (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csub.edu.) Various entry-level trainee positions in business and industry are available for graduates regardless of academic discipline.

Introduction
Mathematics is fundamental to all scientific knowledge, including not only the traditional natural sciences but increasingly the social and economic sciences. The increasing applicability of mathematical methods has been enhanced and accelerated by the development of the computer. Mathematics is also a vital aid to critical and philosophical thinking and, at least to some, a thing of beauty in itself.

The Department of Mathematics and Statistics offers instruction for students at all levels beyond high school mathematics. Its courses provide the computational and analytic skills needed for a variety of majors, as well as the advanced theoretical topics for specialists in mathematics. Its various degree options are intended to provide the student with the knowledge and techniques needed for scientific, management, and statistical applications, and also the theoretical understanding needed for teaching, graduate study and lifelong professional growth. Beyond these, it hopes to instill a spirit of curiosity and healthy skepticism towards mathematical statements and results — a willingness to ask "Is this true?" and "Why?", and to try to find the answers.

Students desiring information should contact the department office for referral to the appropriate faculty advisor: Undergraduate Advisor, Graduate Advisor, and/or Credential Advisor.

Concurrent and/or Summer Enrollment at Another College
Students who wish to take coursework at a community college or other college to meet curricular requirements while enrolled as undergraduates in the College of Natural Sciences and Mathematics must petition the appropriate department for prior approval to earn credit for specific courses. This policy applies to concurrent enrollment or summer enrollment. University policy must also be complied with. See "Concurrent Enrollment and Transfer of Undergraduate Credit" in this Catalog. Courses not receiving prior approval will not be accepted for credit by the department.

Facilitated Enrollment into Classes
All entering students who declare a major in a degree program offered by this department must participate in the College of Natural Sciences and Mathematics’ Science Safari to Success (for first-time freshmen) or EONS (Enrollment and Orientation in the Natural Sciences and Mathematics for transfer students) Program. These programs are held in June-July for those starting in the Fall Semester and in January for those starting in the Spring Semester. Department advisors will be available to provide an overview of the students’ chosen baccalaureate degree program, to assist with academic advisement, to provide information on the many career opportunities available, and to aid students in enrolling in classes. Contact the Jensen Student Access to Sciences and Mathematics Center (FO5-106) or department office for additional information.
Undergraduate Programs

The Mathematics and Statistics Department offers four undergraduate degree programs in mathematical sciences:

**Bachelor of Science in Mathematics (code MATHBS01) (120 units)**

The student in this program is required to take a selection of fundamental courses in algebra, statistics, and analysis. It is the most flexible program, in which the greatest number of electives may be chosen by the student. Elective upper division mathematics courses are available which meet the needs of students preparing for a variety of goals, including careers in industry and government, secondary teaching, and graduate study. Students who do not wish to complete the requirements for a declared option in applied mathematics or statistics may wish to elect courses in one or both of these areas as part of this degree program.

**Requirements**

- **Lower Division:** ENGL 101 or 317; MATH 122, 123, 224, 233, 247; CECS 174; PHYS 151.
- **Upper Division:** A minimum of 30 units of approved upper-division MATH or STAT courses selected in consultation with a major advisor, to include MATH 341 or 347, 361A, 361B, 364A, 360 (or STAT 360) and MATH 444 but not MATH 303I, 370A, 370B, or 409. To allow flexibility, only 18 of the required 30 units are specified. Students should choose the remaining 12 units after discussing career goals and interests with an advisor. For additional information and to obtain an advisor, contact the department office.

**Option in Applied Mathematics (code MATHBS02) (120 units)**

The student who is most interested in the applications of mathematics has a choice of two suboptions: the first concentrates on the applications in science and engineering while the second concentrates on the applications to economics and management. In both suboptions, courses are specified in the major areas of applied mathematics and in the field of application. This option prepares students for careers in business, industry or government, or for graduate study.

**Requirements**

- **Suboption I: Area of Application in Science and Engineering**
  - Lower Division: ENGL 101 or 317; MATH 122, 123, 224, 247; CECS 174; PHYS 151, 152; PHYS 254 or EE 211 or CE 205.
  - Upper Division: MATH 323, 361A, 361B, 364A, 364B, 380 (or STAT 380), 470. A minimum of 9 units from the following: MATH 423, 461, 463, 472, 479, 485, STAT 301, 482. A minimum of 9 units from one of the following three groups:
    - B. EE 310, 370, 382, 411, 460, 482.
    - C. CE 335, 359, 437, 438, 458; MAE 371, 373

- **Suboption II: Area of Application in Economics and Management**
  - Lower Division: ENGL 101 or 317; MATH 122, 123, 224, 247; CECS 174; ECON 100 and 101, or ECON 300.
  - Upper Division: MATH 323, 361A, 361B, 364A, 360 (or STAT 360), 485; STAT 381, 402. A minimum of 6 units from the following courses: MATH 364B, 423, 463, 470, 479; STAT 410. A minimum of 15 units from one of the following two groups:
    - A. ECON 310, 311 required; and 9 units selected from ECON 333, 410H, 411H, 420, 485, 486.
    - B. ECON 333, MGMT 410 required; and 9 units selected from MGMT 411, 412, 413, 414, 426.

**Option in Statistics (code MATHBS04) (120 units)**

This option provides students with a foundation in statistical methods. The courses required ensure that the student understands both how the techniques are mathematically derived and how they are applied. Statistical analysis is an essential part of any scientific investigation. It is a vital tool in monitoring the quality of products and services and in forecasting. This option prepares students for interesting and rewarding careers in industry, government, and for graduate study in statistics and other quantitative fields.

**Requirements**

- **Lower Division:** ENGL 101 or 317; MATH 122, 123, 224, 247; CECS 174
- **Upper Division:** A minimum of 34 units of upper-division MATH or STAT courses to include MATH 333 and 361A, STAT 380, 381, 410, 450 and 452, but not MATH 370A or 370B.

**Option in Mathematics Education (code MATHBS03) (120 units)**

This option is for students preparing to teach mathematics at the secondary school level. Completion of this Option meets subject matter competence requirements for the Single Subject Preliminary Credential Mathematics (code 165).

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Math teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the department’s Mathematics Education Advisor early to plan their program.

**Requirements**

- **Lower Division:** MATH 122, 123, 224, 233, 247; one of the following: ENGL 101 or 300 or 317; and one of the following sequences: PHYS 151, 152; or PHIL 170, 270; or eight units of a foreign language.
Minor in Mathematics (code MATHUM01)

Requirements

The Minor in Mathematics is available to any student not majoring in Mathematics or Applied Mathematics.

The student must complete 23 or more semester units as follows:

- MATH 122, 123, 224, 247 and 9 units of upper-division MATH or STAT courses to include MATH 301A but not MATH 370A. The student may replace MATH 123 and 224 by MATH 222 and an additional 3 units of upper-division MATH or STAT (excluding MATH 370A) not used to meet the above upper-division requirements.

Minor in Applied Mathematics (code MATHUM02)

Requirements

The Minor in Applied Mathematics is available to any student not majoring in Mathematics or Applied Mathematics.

The student must complete 27 or more semester units as follows:

- Lower Division: MATH 122, 123, 224, 247
- Upper Division: MATH 323, 364A or 370A, 380 (or STAT 380) and one course selected from MATH 364B, 423, 470, STAT 381, or 482. The student may replace MATH 123 and 224 by MATH 222 and an additional course from MATH 364B, 423, 470, STAT 381, or 482 not used to meet the above upper-division requirements.

The student may replace MATH 123 and 224 by MATH 222 and one more course from MATH 364B, 423, 470, STAT 381, 482 not used to meet the above upper-division requirements.

Minor in Statistics (code MATHUM03)

Requirements

The Minor in Statistics is available to any non Mathematics major. The student must complete 26 or more semester units by following one of two sequences:

Sequence One: MATH 122, 222, 247, 380 and STAT 381, and any three of the following: MATH 323, STAT 410, 450, 475, 482, 484, and/or 485.

Sequence Two: MATH 122, 123, 224, 247, 380 and STAT 381, and any two of the following: MATH 323, STAT 410, 450, 475, 482, 484, and/or 485.

Graduate Programs

How to Apply

See department's website: www.csulb.edu/depts/math/

To apply for admission to a graduate program in the Department of Mathematics and Statistics, you must apply to the department and to the university.

To apply to the department, send the following to the Graduate Advisor by July 1 for fall admission or December 1 for spring admission:

- complete college transcripts (not necessarily official)
- appropriate Prerequisite Worksheet (available online at above website or from the department office);
- Pure Mathematics Prerequisite Worksheet;
- Applied Mathematics Prerequisite Worksheet;
- Applied Statistics Prerequisite Worksheet.
Master of Science in Mathematics
(code MATHMS01)

Prerequisites
1. A bachelor's degree in mathematics, or a bachelor's degree with a minimum of 24 upper division units in mathematics from an accredited college or university;
2. A grade of "C" or better in MATH 247, 361A-B, 364A and 444, or their equivalents. Deficiencies will be determined by the Graduate Advisor.

Advancement to Candidacy
The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to University requirements, the student must have completed all prerequisite courses listed above with no grade less than "C." Students must have fulfilled the Graduation Writing Assessment Requirement (GWAR) and should file for Advancement upon completion of at least six units (and no more than nine units) on the Program, with at least a 3.0 GPA. Program of study must be approved by the appropriate Graduate Advisor, Department of Mathematics and Statistics Chair, Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics, and Dean of Graduate Studies.

Requirements
1. A minimum of 30 graduate and upper division units in mathematics including:
   A. Three of the following courses: MATH 540A, 550A, 561A, or 562A.
   B. Two additional courses selected from MATH 540B, 550B, 561B, or 562B.
   C. An additional 3 units of 500-level mathematics courses.
2. Complete one of the following:
   A. Pass a comprehensive written examination in two areas of Pure Mathematics. Specific requirements for passing the comprehensive examinations can be found on the Department of Mathematics and Statistics website at www.csulb.edu/depts/math.
   B. Subject to the approval of the Graduate Committee of the Department of Mathematics and Statistics, write a thesis in mathematics and defend it orally.

Option in Applied Mathematics
(code MATHMS02)

Prerequisites
1. A bachelor's degree in mathematics, physics, engineering, or computer science, or a bachelor's degree with at least 24 upper division units in mathematics from an accredited college or university.
2. A grade of "C" or better in MATH 247, 323, 361A-B, 364A, and MATH/STAT 380, or their equivalents. Deficiencies will be determined by the Graduate Advisor.

Advancement to Candidacy
The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to University requirements, the student must have completed all prerequisite courses listed above with no grade less than "C." Students must have fulfilled the Graduation Writing Assessment Requirement (GWAR) and should file for Advancement upon completion of at least six units (and no more than nine units) on the Program, with at least a 3.0 GPA. Program of study must be approved by the appropriate Graduate Advisor, Department of Mathematics and Statistics Chair and Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics and Dean of Graduate Studies.

Option in Applied Statistics
(code MATHMS03)

Prerequisites
1. A bachelor's degree in mathematics, physics, engineering, computer science, or statistics, or a bachelor's degree with at least 24 upper division units in mathematics from an accredited college or university.
2. A grade of "C" or better in MATH 247, 323, 361A-B, 364A, and MATH/STAT 380, or their equivalents.

Advancement to Candidacy
The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to University requirements, the student must have completed all prerequisite courses listed above, with no grade less than "C." Students must have fulfilled the Graduation Writing Assessment Requirement (GWAR) and should file for Advancement upon completion of at least six units (and no more than nine units) on the Program, with at least a 3.0 GPA. Program of study must be approved by the appropriate Graduate Advisor, Department of Mathematics and Statistics Chair and Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics and Dean of Graduate Studies.

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Requirements
1. A minimum of 30 graduate and approved upper-division units in mathematics including:
   A. STAT 510, 520, 530.
   B. Four additional courses selected from STAT 482, 484, 532, 540, 550, 560, 570, 572, 574, 580, 590.
   C. At least 16 units of graduate courses (numbered 500 or above) including any such courses used to meet requirements (A) or (B) above and including at least 15 units of graduate mathematics courses other than MATH 607 or 688 and STAT 607 or 698.
2. Complete one of the following:
   A. Pass comprehensive written examinations in two areas of statistics.
   B. Subject to the approval of the Statistics Committee of the Department of Mathematics and Statistics, write a thesis in statistics and defend it orally.
   C. Subject to the approval of the Statistics Committee of the Department of Mathematics and Statistics, complete an approved statistical thesis/project with an industrial company under the guidance of a faculty advisor in statistics. Write a final thesis/project report and give an oral presentation of its outcomes to the department. Specific requirements for completion of the thesis project can be found on the statistics webpage of the department at www.csulb.edu/depts/stat.

Option in Mathematics Education for Secondary School Teachers (code MATHMS04)

Option in Mathematics Education for Secondary School Teachers is designed for people holding a California Single Subject Teaching Credential in mathematics and teaching in middle, junior high, or high schools. This option will give students greater expertise in mathematics and mathematics education (curriculum, teaching, learning, assessment and research). The program includes a blend of courses from pure and applied mathematics as well as mathematics education, and also may include coursework from the College of Education.

Prerequisites
1. A bachelor’s degree in mathematics or mathematics education, or a bachelor’s degree with at least 24 upper division units in mathematics from an accredited college or university.
2. A California Single Subject Credential in mathematics.
3. Course work in mathematics should include MATH 247, 310, 341, 355, 361A or 364A, and MATH/STAT 380 or equivalent with a grade of “C” or better.

Advancement to Candidacy
The regulations governing the master's degree are those in effect at the time of advancement to candidacy. In addition to University requirements stated elsewhere in this Catalog, must have completed prerequisites above and must have satisfied the Graduate Writing Assessment Requirement (GWAR). Must file for Advancement to Candidacy after completion of at least 6 units (and recommend filing before completing 9 units) on Program of Study, with an overall 3.0 grade-point average. Program of Study must be approved by Mathematics Education Graduate Advisor, Department of Mathematics and Statistics Chair and Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics and Dean of Graduate Studies.

Requirements for the Option in Mathematics Education for Secondary School Teachers
1. A minimum of 30 units of graduate level or approved upper division coursework which includes the following:
   A. A minimum of 9 graduate or approved upper-division units of mathematics, including at least one 500-level mathematics course. If not previously taken for B.S. or credential, this course of study must include MATH 410 and 444.
   B. A minimum of 15 graduate units of mathematics education including:
      1) MTED 511 and 512; and
      2) At least 9 units in mathematics education chosen in consultation with the Mathematics Education Graduate Advisor from the following courses: MTED 540, 550, 560, 580, 590, 695
   C. A minimum of 6 units of approved upper division or graduate electives from mathematics, mathematics education, or approved College of Education courses, chosen in consultation with the Mathematics Education Graduate Advisor. If the student plans to teach at the Community College level, she/he must take at least 18 units of graduate or approved upper division mathematics from parts A and C. If the student intends to do a thesis or thesis project she/he must take EDP 520 or the equivalent.
2. Complete one of the following three options:
   A. Pass two comprehensive written examinations in mathematics education (one representing 511/512 and one in a selected area - 540, 550, 560, or 580).
   B. Subject to the approval of the Mathematics Education Committee of the Department of Mathematics and Statistics, write a thesis in mathematics education and defend it orally (MTED 688);
   C. Pass the 511/512 comprehensive written examination in mathematics education and complete a thesis project in mathematics education (MTED 698), subject to the approval of the Mathematics Education Committee of the Department of Mathematics and Statistics.

Mathematics Education Thesis
Students choosing the thesis option must consult with the Mathematics Education Graduate Advisor to select a thesis advisor. A thesis is then written in consultation with the mathematics education faculty advisor who will guide the student in choosing the thesis topic and supervise the process of writing the thesis. After a thesis topic is chosen it must be approved by the Mathematics Education Committee. A thesis committee of three faculty members, including the thesis advisor is then chosen to approve the final work. During the writing of the thesis, students must enroll in MTED 698.

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Mathematics Education Thesis Project

Students choosing the research thesis project option must seek a Faculty Advisor in mathematics education. A thesis project is then written in consultation with the mathematics education faculty advisor who will guide the student in choosing a topic and supervise the process of writing the thesis project report. After a project topic is chosen it must be approved by the Mathematics Education Committee. During the writing of the thesis project report, students must enroll in MTED 698.

Mathematics Precalculus Courses (MAPB)

1. Elementary Algebra and Geometry (4)
   Prerequisite: Appropriate ELM Score.
   Arithmetic review, elementary algebra, and some basic geometry concepts. Cannot be taken for credit toward a university degree. Credit/No Credit grading only. Not open to students who are exempt from the ELM or who have not yet taken the ELM but are required to do so. (Lecture 4 hrs.)

7. Basic Intermediate Algebra (3)
   Prerequisite: MAPB 1 or appropriate ELM Score.
   Linear functions, their graphs, applications; proportions and percent change, applications to geometry and life; operations on radicals; rational exponents and scientific notation; dimensional analysis; sets, Venn diagrams, basic counting principles, combinations, permutations, probability; elementary data analysis; logarithmic, exponential functions, applications. Cannot be taken for credit toward a university degree. Not open to students who are exempt from the ELM or who have not yet taken the ELM but are required to do so. For students who will not need to take MATH 113, 115 or 117. Credit/No Credit grading only. (Lecture 3 hrs.)

11. Enhanced Intermediate Algebra (4)
    Prerequisite: MAPB 1 or appropriate ELM Score.
    Polynomial, rational, radical expressions, equations; rational exponents, complex numbers; solutions, graphs of linear, quadratic equations, functions; linear systems; graphs of and operations on functions, including the difference quotient and inverse; logarithmic and exponential functions. Applications to science and business emphasized. Cannot be taken for credit toward a university degree. Not open to students who are exempt from the ELM or who have not yet taken the ELM but are required to do so. For students that intend to take MATH 113, 115 or 117. Credit/No Credit grading only. (Lecture 2 hrs., activity 2 hrs.)

Mathematics Courses (MATH)

Satisfying the Entry-Level Math (ELM) requirement (see "Undergraduate Programs" section of this Catalog) is a prerequisite for all mathematics courses. Please contact the ELM Coordinator in the Department of Mathematics and Statistics for details regarding the ELM test score.

LOWER DIVISION

103. Mathematical Ideas (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or 11.
    Surveys variety of concepts in undergraduate mathematics. Includes elementary logic, numeration systems, rational and real numbers, modular number systems, elementary combinatorics, probability and statistics, using real world examples. Not open for credit to students with credit in any MATH or MTED course numbered greater than 103, or the equivalent. (Lecture 3 hrs.)

108. Statistics for Everyday Life (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or 11.
    Exploratory data analysis, methods of visualizing data, descriptive statistics, misuse and manipulation of data in statistical analysis, probability, binomial and normal distributions, hypothesis testing, correlation and regression, contingency tables. Not open for credit to students with credit in MATH 150, 380; MTED 105, 205; STAT 106. Same course as STAT 108. (Lecture 3 hrs.)

109. Modeling with Algebra (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or 11.
    Data, functions, domain, range, representations of functions (verbally, numerically, graphically, algebraically), visualizing functions (increasing, decreasing, maximum, minimum, concave up, concave down). Linear functions, rate of change, slope, modeling data, systems of linear equations, linear inequalities. Exponential, log, growth decay, semi-log plots for modeling. Not open for credit to students with credit in any MATH or MTED course numbered greater than 103, or the equivalent. (Lecture 3 hrs.)

111. Precalculus Trigonometry (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
    Trigonometric functions and applications. Arithmetic and graphical representation of complex numbers, polar form, DeMoivre’s Theorem. Not open for credit to students with credit in MATH 101, 117 or 122. (Lecture 3 hrs.)

113. Precalculus Algebra (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
    Equations, inequalities, functions, their graphs, inverses, transformations. Polynomial, rational functions, theory of equations. Exponential, logarithmic functions, modeling. Systems of equations, matrices, determinants. Sequences, series. Not open for credit to students with credit in MATH 112, 115, 117, 119A, 120, or 122. For students who will continue to MATH 115, 117, 119A, 120, or 122. (Lecture 3 hrs.)

114. Finite Mathematics (3)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
    Combinatorial techniques and introduction to probability. Equations of lines and systems of linear equations, matrices, introduction to linear programming. Not open for credit to students with credit in MATH 233 or 380. (Lecture 3 hrs.)

115. Calculus for Business (4)
    Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
    Functions, derivatives, optimization problems, graphs, partial derivatives. Lagrange multipliers, integration of functions of one variable. Applications to business and economics. Emphasis on problem solving techniques. Not open for credit to students with credit in MATH 119A, 120, or 122. (Lecture 3 hrs., activity 1 hr)

117. Precalculus Mathematics (4)
    Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MAPB 11.
    Polynomial, rational, exponential, logarithmic, and trigonometric functions. Complex numbers, conic sections, graphing techniques. Not open for credit to students with credit in MATH 122. (Lecture 5 hrs., problem session 2 hrs.)
119A. Survey of Calculus I (3)
Prerequisite: Appropriate MDPF placement or a grade of "C" or better in MATH 113.
Functions, limits and continuity, differentiation and integration of functions of one variable including exponential, logarithmic, and trigonometric functions. Graphing, optimization, parametric equations, integration by substitution and by parts, numerical integration. Applications to the life sciences. Emphasis on problem solving.
Not open for credit to students with credit in MATH 115, 120 or 122. (Lecture 3 hrs.)

119B. Survey of Calculus II (3)
Prerequisite: MATH 119A or 122.
Not open for credit to students with credit in MATH 123 or 224. (Lecture 3 hrs.)

120. Calculus for Technology (4)
Prerequisite: Appropriate MDPF placement or a grade of "C" or better in MATH 113.
Real and complex numbers and functions; limits and continuity; differentiation and integration of functions of one variable; introduces calculus of several variables. Science and technology applications.
Not open for credit to students with credit in MATH 122. (Lecture 3 hrs., problem session 2 hrs.)

122. Calculus I (4)
Prerequisite: Appropriate MDPF placement or a grade of "C" or better in MATH 111 and 113, or a grade of "C" or better in MATH 117.
(Lecture 3 hrs., problem session 2 hrs.)

123. Calculus II (4)
Prerequisite: A grade of "C" or better in MATH 122.
Not open for credit to students with credit in MATH 222. (Lecture 3 hrs., problem session 2 hrs.)

222. Intermediate Calculus (4)
Prerequisite: A grade of "C" or better in MATH 122.
Enrollment restricted to CECS majors. Not open for credit to students with credit in MATH 223. Letter grade only (A-F). (Lecture 3 hrs., activity 2 hrs.)

224. Calculus III (4)
Prerequisite: A grade of "C" or better in MATH 123 or 222.
(Lecture 3 hrs., problem session 2 hrs.)

233. Fundamental Concepts for Advanced Mathematics (3)
Prerequisite: A grade of "C" or better in MATH 123 or 222.
Fundamentals of logic and set theory, counting principles, functions and relations, induction and recursion, introduction to probability, elementary number theory, congruences. Introduces writing proofs. (Lecture 3 hrs.)

247. Introduction to Linear Algebra (3)
Prerequisite: MATH 222 or prerequisite or corequisite: MATH 224.
Matrix algebra, solution of systems of equations, determinants, vector spaces including function spaces, inner product spaces, linear transformations, eigenvalues, eigenvectors, quadratic forms, and applications. Emphasis on computational methods.
(Lecture 3 hrs.)

297. Directed Study (1-3)
Prerequisite: Consent of instructor.
For students who wish to undertake special study, at the lower division level, which is not a part of any regular course, under the direction of a faculty member. Individual investigation, studies or surveys of selected problems.

UPPER DIVISION

303I. Reflections in Space and Time (3)
Prerequisites: GE foundation, at least one GE Explorations course, upper division standing. An experientially-driven investigation of the mathematical nature of symmetry and patterns. Considers the pervasive appearance and deep significance of symmetry and patterns in art and science. (Lecture 3 hrs.)

310. History of Early Mathematics (3)
Prerequisite/Corequisite: completion of, or concurrent enrollment in a 200-level mathematics course.
History of mathematics through seventeenth century, including arithmetic, geometry, algebra, and beginnings of calculus. Interconnections with other branches of mathematics. Writing component; strongly recommended students enrolling have completed the G.E. A.1 requirement.
(Lecture 3 hrs.)

322. Introduction to Numerical Analysis (4)
Prerequisites: MATH 222 or 224, and a course in computer programming.
Numerical solution of nonlinear equations, systems of linear equations, and ordinary differential equations. Interpolating polynomials, numerical differentiation, and numerical integration. Computer implementation of these methods.
(Lecture discussion 3 hrs., problem session 2 hrs.)

341. Number Theory (3)
Prerequisites: MATH 223 or 222, and at least one of MATH 233, 247, 310, recommended, MATH 233 or 247.
Divisibility, congruences, number theoretic functions, Diophantine equations, primitive roots, continued fractions. Writing proofs.
(Lecture 3 hrs.)

347. Linear Algebra (3)
Prerequisites: MATH 233 and 247.
In-depth study of linear transformations, vector spaces, inner product spaces, quadratic forms, similarity and the rational and Jordan canonical forms. Writing proofs.
(Lecture 3 hrs.)

355. College Geometry (3)
Prerequisite: MATH 247.
Transformations, motions, similarities, geometric objects, congruent figures, axioms of geometry and additional topics in Euclidean and non-Euclidean geometry. Writing proofs.
(Lecture 3 hrs.)
361A. Introduction to Mathematical Analysis I (3)
Prerequisites: MATH 222 or 224, and MATH 233 or 247.
Rigorous study of calculus and its foundations. Structure of the
real number system. Sequences and series of numbers. Limits,
continuity and differentiability of functions of one real variable.
Writing proofs.
(Lecture 3 hrs.)

361B. Introduction to Mathematical Analysis II (3)
Prerequisite: MATH 361A.
Riemann Integration. Topological properties of the real number
line. Sequences of functions. Metric spaces. Introduction to
calculus of several variables. Writing proofs.
(Lecture 3 hrs.)

364A. Ordinary Differential Equations I (3)
Prerequisite: MATH 222 or 224, and prerequisite or concurate
MATH 247.
First order differential equations; undetermined coefficients and
variation of parameters for second and higher order differential
equations; series solution of second order linear differential
equations; systems of first order linear differential equations;
équations applications to science and engineering.
(Lecture 3 hrs.)

364B. Ordinary Differential Equations II (3)
Prerequisite: MATH 364A or 370A.
Existence-uniqueness theorems; Laplace transforms; difference
equations; nonlinear differential equations; stability, Sturm-
Liouville theory; applications to science and engineering.
(Lecture 3 hrs.)

370A. Applied Mathematics I (3)
Prerequisite: MATH 222 or 224.
First order, comon, general, and linear differential equations in two
dimensions. Solution of systems of two first order linear differential
equations; applications.
(Lecture 3 hrs.)

370B. Applied Mathematics II (3)
Prerequisite: MATH 370A.
Arithmetic of complex numbers, functions of a complex variable,
contour integration, residues, conformal mapping, Fourier series,
Fourier transforms; separation of variables for partial differential
equations. Applications.
Not open for credit to mathematics majors. (Lecture 3 hrs.)

380. Probability and Statistics (3)
Prerequisite: MATH 222 or 224.
Random variables; expectation; variance; moment generation functions;
Chebyshev’s and Xi’s inequalities; normal distribution; the central
limit theorem; estimation; confidence intervals. For nonmajors.
(Lecture 3 hrs.)

409. Strategies for Graduate Admission (1)
Prerequisite: Senior or graduate standing.
The nature and expectations of doctoral programs in Mathematics
and related fields. Intensive preparation for GRE mathematics
subject exams.
Credit/No Credit grading only. Does not satisfy Mathematics major
requirements. (Lecture-discussion 1 hr.)

410. History of Modern Mathematics (3)
Prerequisites: MATH 247, 301 and at least three of the following:
History of mathematics from seventeenth century onward.
Development of calculus, analysis, and geometry during this time
period. Other topics discussed may include history of probability
and statistics, algebra and number theory, logic, and foundations.
(Lecture 3 hrs.)

423. Intermediate Numerical Analysis (3)
Prerequisites: MATH 247 and 323.
Numerical solutions of systems of equations, calculation of
eigenvalues and eigenvectors, approximation of functions,
solution of partial differential equations. Computer implementation
of these methods.
(Lecture 3 hrs.)

444. Introduction to Abstract Algebra (3)
Prerequisites: MATH 233 and 247 and at least one of MATH 341 or
347.
Groups, subgroups, cyclic groups, symmetric groups, Lagrange’s
theorem, quotient groups. Homomorphisms and isomorphisms
of groups. Rings, integral domains, ideals, quotient rings,
homomorphisms of rings. Fields. Writing proofs.
Not open for credit to students with credit in MATH 444A. (Lecture
3 hrs.)

451. Differential Geometry (3)
Prerequisite: MATH 364A or 370A.
Structure of curves and surfaces in space, including Frenet
formulas of space curves, frame fields and connection forms;
geometry of surfaces in Euclidean three space; Geodesics and
connections with general theory of relativity.
(Lecture 3 hrs.)

456. Dynamics and Geometry of Chaos (3)
Prerequisites: MATH 247, 361A, or consent of instructor.
An introduction to discrete dynamical systems in one and two
dimensions. Theory of iteration; attracting and repelling periodic
points, symbolic dynamics, chaos, and bifurcation. May include a
computer lab component.
(Lecture 3 hrs.)

461. Introduction to Complex Analysis (3)
Prerequisite: MATH 361A.
Theory and applications of complex variables: Analytic functions,
integrals, power series and applications.
Not open for credit to students with credit in MATH 562A. (Lecture
3 hrs.)

463. Multivariable Calculus (3)
Prerequisites: MATH 224, 247, and 301B.
Topography of Euclidean spaces. Partial derivatives. Derivatives as
linear transformations. Inverse and implicit function theorems.
Jacobian, vector calculus, Green’s and Stokes’ theorems, variational
problems.
(Lecture 3 hrs.)

470. Introduction to Partial Differential Equations (3)
Prerequisite: MATH 370A or 364A.
First and second order equations, characteristics. Cauchy
problems, elliptic, hyperbolic, and parabolic equations.
Introduction to boundary and initial value problems and their
applications.
(Lecture 3 hrs.)

472. Fourier Analysis (3)
Prerequisite: MATH 364A or 370A.
Convolution. Fourier transforms and partial differential
equations. Introduction to distributions. Discrete and fast Fourier
transforms.
(Lecture 3 hrs.)
473/573. Scientific Computing (3)
Prerequisites: MATH 323 and either 364A or 370A.
(Graduates register in MATH 473; graduates in MATH 573.)
Introduction to programming languages, implementations of numerical algorithms for solution of linear algebraic equations, interpolation and extrapolation, integration and evaluation of functions, root finding and nonlinear equations, fast Fourier transforms, minimization and maximization of functions, numerical solutions of differential equations.
Not open for credit to students with credit in MATH 573.

479/579. Mathematical Modeling (3)
Prerequisites: MATH 247, 364A or 370A, 323; and one additional upper-division mathematics course or consent of instructor.
(Graduates register in MATH 479; graduates in MATH 579.)
Application of mathematics to develop models of phenomena in science, engineering, business, and other disciplines. Evaluation of benefits and limitations of mathematical modeling.
(Lecture 3 hrs.)

485. Mathematical Optimization (3)
Prerequisites: MATH 247 and at least one of MATH 323, 347 or 380.
Linear and nonlinear programming: simplex methods, duality theory, theory of matrix, Kuhn-Tucker theory, gradient methods and dynamic programming.
(Lecture 3 hrs.)

491. Honors Seminar in Problem Solving (1)
Prerequisite: Consent of instructor.
Challenging problems from many fields of mathematics, taken largely from national and worldwide college and secondary school competitions. Students required to participate in at least one national competition.
May be repeated to a maximum of 3 units. (Lecture-Discussion 1 hr.)

495. Topics in Modern Mathematics (3)
Prerequisite: Consent of instructor.
Topics of current interest from mathematics literature.

496. Special Problems (1-3)
Prerequisite: Consent of instructor.
Student investigations in mathematics, applied mathematics, mathematics education, or statistics. May include reports and reviews from the current literature, as well as original investigations.
May be repeated to a maximum of 3 units. Letter grade only (A-F).

497. Directed Studies (1-3)
Prerequisites: Junior or senior standing and consent of instructor. Readings in areas of mutual interest to student and instructor which are not a part of any regular course. A written report or project may be required.
May be repeated to a maximum of 3 units.

498H. Senior Thesis - Honors (3)
Prerequisites: Admission to Honors in the Major in Mathematics or to the University Honors Program, and consent of instructor.
Planning, preparation, completion, and oral presentation of a written thesis in mathematics, applied mathematics, mathematics education, or statistics.
Not available to graduate students. Letter grade only (A-F).

540A. Abstract Algebra I (3)
Prerequisite: MATH 444.
Group theory including symmetric groups; group actions on sets; Sylow theorems and finitely generated abelian groups; ring theory including polynomial rings, division rings, Euclidean domains, principal ideal domains, and unique factorization domains.
Letter grade only (A-F). (Lecture 3 hrs.)

540B. Abstract Algebra II (3)
Prerequisite: MATH 540A.
Modules; Field extensions; Finite fields; Splitting fields; Galois theory. Commutative ring theory including chain conditions and primary ideals. Topics of current interest.
Letter grade only (A-F). (Lecture 3 hrs.)

541. Elliptic Curves (3)
Prerequisites: MATH 341, 444, and consent of instructor; MATH 451 and 540A are recommended but not required.
Formal methods of descent; finite fields; Weierstrass normal form; integer, rational points on elliptic curves; group structures of rational points; Mordell's Theorem; computation examples. May include congruent numbers. Cartier's public cryptography challenges, Lenstra's factorization method. Birch and Swinnerton-Dyer Conjecture.
Letter grade only (A-F). (Lecture 3 hrs.)

542. Algebraic Geometry (3)
Prerequisite: MATH 540A or consent of instructor.
An introduction to algebraic geometry: Algebraic sets; affine and projective varieties. Additional topics at the discretion of the instructor may include: Algebraic Curves; Intersection Theory; Invariant Theory; Computational Approaches.
Letter grade only (A-F). (Lecture 3 hrs.)

550A. Topology I (3)
Prerequisite: MATH 361B.
Fundamentals of point-set topology: metric spaces and topological spaces; boxes and neighborhoods; continuous functions; subspaces, product spaces and quotient spaces; separation properties, countability properties, compactness, connectedness; convergence of sequences, nets and filters.
Letter grade only (A-F). (Lecture 3 hrs.)

550B. Topology II (3)
Prerequisite: MATH 550A.
Further topics in point-set topology: local compactness, paracompactness, compactifications; metrizability; Baire category theorem; homology and the fundamental group. Topics may also include uniform spaces, function spaces, topological groups or topics from algebraic topology.
Letter grade only (A-F). (Lecture 3 hrs.)

560A. Functional Analysis I (3)
Prerequisites: MATH 247, 361B.
Linear spaces, metric and topological spaces, normed linear spaces, four principles of functional analysis: Hahn-Banach, Open Mapping, Uniform Boundedness, and Closed Graph theorems; adjoint spaces, normed space convergence, conjugate spaces, and operator spaces; Banach Fixed Point theorem; Hilbert spaces.
Letter grade only (A-F). (Lecture 3 hrs.)

560B. Functional Analysis II (3)
Prerequisite: MATH 560A or consent of instructor.
Spectral theory of operators on normed spaces; special operators; elementary theory of Banach algebras; selected topics from applied functional analysis.
(Lecture 3 hrs.)
561A. Real Analysis I (3)
Prerequisite: MATH 361B.
Theory of measure and integration, focusing on the Lebesgue integral on Euclidean space, particularly the real line. Modes of convergence, Fatou's Lemma, the monotone convergence theorem and the dominated convergence theorem. Fubini's theorem.
Letter grade only (A-F). (Lecture 3 hrs.)

561B. Real Analysis II (3)
Prerequisite: MATH 361A or consent of instructor.
Lp spaces of functions. Holder’s inequality, Minkowski’s inequality. Norm convergence, weak convergence and duality in Lp. Further topics from convergence of Fourier series, measure-theoretic probability, the Radon-Nikodym theorem, other topics depending on time and interest.
Letter grade only (A-F). (Lecture 3 hrs.)

562A. Complex Analysis I (3)
Prerequisite: MATH 361B. (MATH 461 is recommended.)
Asymptotic development of real and complex numbers; elements of point set theory; differentiation and analytic functions, classical integral theorems, Taylor’s series, singularities, Laurent series, calculus of residues.
Letter grade only (A-F). (Lecture 3 hrs.)

562B. Complex Analysis II (3)
Prerequisite: MATH 362A.
Multiple-valued functions, Riemann surfaces; analytic continuation; maximum modulus theorem; conformal mapping with applications, integral functions; gamma function, zeta function, special functions.
Letter grade only (A-F). (Lecture 3 hrs.)

563. Applied Analysis (3)
Prerequisite: MATH 310B and either 364A or 370A.
Hilbert Spaces, lp spaces, Distributions, Fourier Transforms, and applications to differential and integral equations from physics and engineering.
Letter grade only (A-F). (Lecture 3 hrs.)

564. Applied Nonlinear Ordinary Differential Equations (3)
Prerequisites: MATH 351B, 364A or 370A.
Stability and asymptotic analysis, Perturbation methods, Phase plane analysis, Bifurcation, Chaos, Applications to science and engineering.
(Lecture 3 hrs.)

570. Partial Differential Equations (3)
Prerequisites: MATH 364A and 463.
Cauchy's problem; classification of second order equations; methods of solution of hyperbolic, parabolic, and elliptic equations.
Letter grade only (A-F). (Lecture 3 hrs.)

573.473. Scientific Computing (3)
Prerequisites: MATH 323 and either 364A or 370A. (Undergraduate register in MATH 473, graduate in MATH 573.)
Introduction to programming languages, implementations of numerical algorithms for solution of linear algebraic equations, interpolation and extrapolation, integration and evaluation of functions, root finding and nonlinear equations, fast Fourier transform, minimization and maximization of functions, numerical solutions of differential equations.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 473.

574. Stochastic Calculus and Applications (3)
Prerequisites: MATH 351B, 364A or 370A, 360.
(Lecture 3 hrs.)

575. Calculus of Variations (3)
Prerequisites: MATH 361B and either 364A or 370A.
Solution methods for variational problems. First variation. Euler-Lagrange equation, variational principles, problems with constraints, boundary conditions, applications to physics and geometry. May include multiple integral problems, eigenvalue problems, convexity, and second variation.
Letter grade only (A-F). (Lecture 3 hrs.)

576. Numerical Analysis (3)
Prerequisites: MATH 323, 361B, 364A.
Advanced numerical methods. Introduction to error analysis, convergence, and stability of numerical algorithms. Topics may include solution of ordinary differential equations, partial differential equations, systems of linear and nonlinear equations, and optimization theory.
Letter grade only (A-F). (Lecture 3 hrs.)

577. Numerical Solution of Partial Differential Equations (3)
Prerequisite: MATH 423 or MATH 576 or consent of instructor.
(Lecture 3 hrs.)

578. Numerical Linear Algebra (3)
Prerequisites: MATH 247 and 323 or consent of instructor.
Letter grade only (A-F). (Lecture 3 hrs.)

579.479. Mathematical Modeling (3)
Prerequisites: MATH 247, 364A or 370A, 323, and one additional upper division mathematics course, or consent of instructor. (Undergraduate register in MATH 479, graduate in MATH 579.)
Application of mathematics to develop models of phenomena in science, engineering, business, and other disciplines. Evaluation of benefits and limitations of mathematical modeling.
Letter grade only (A-F). (Lecture 3 hrs.)

695. Seminar in Mathematics (3)
Prerequisite: Consent of instructor.
Presentation and discussion of advanced work, including original research by faculty and students. Topics announced in the Schedule of Classes.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Research on a specific area in mathematics. Topics for study to be approved and directed by faculty advisor in the Department of Mathematics and Statistics.
Letter grade only (A-F).

698. Thesis or Project (1-6)
Prerequisite: Advancement to candidacy.
Formal report of research or project in mathematics. May be repeated to a maximum of six units. Letter grade only (A-F).
Mathematics Education Courses (METED)

Satisfying the Entry Level Math (ELM) requirement (see "Undergraduate Programs" section of this Catalog) is a prerequisite for all mathematics education courses.

LOWER DIVISION

110. The Real Number System for Elementary and Middle School Teachers (3)
Prerequisite: ELM or ELM exemption or MAPS 11.
Introduction to problem solving processes and strategies. Development and analysis of structure, properties, and operations of the real number system. Concept and process development using appropriate models, manipulative, and activities.
Not open for credit to Mathematics majors. (Lecture 2 hrs., activity 2 hrs.)

205. Activity Based Probability and Statistics for Elementary and Middle School Teachers (3)
Prerequisites: ELM or ELM exemption or MAPS 11 and METED 110.
Activity based exploration of randomness, data representation, measures of central tendency and dispersion. Analysis of experiments requiring hypothesizing, experimental design and data gathering. Basic laws of probability and set theory, combinations, permutations, and simulations.
Lecture grade only (A-F). (Lecture 2 hrs., activity 2 hrs.) Not open for credit to mathematics (all options) and statistics majors or for students with credit in METED 105.

211. Geometry and Measurement for Elementary Teachers (3)
Prerequisites: "C" or better in METED 110 and one year of high school geometry.
Problem solving and hands on modeling of real-world geometry situations focusing on parallelism, informal geometry, congruence, similarity, constructions, translations, transformations, measurement in 1, 2, and 3 dimensions (English and Metric units). Computer applications are integrated into the course.
Not open for credit to Mathematics majors or any student with credit in METED 312. (Lecture 2 hrs., activity 2 hrs.)

UPPER DIVISION

301. Computer Applications in Mathematics for Teachers (3)
Prerequisites: One year of high school geometry and one of METED 110 or MATH 122.
Designed for pre-service or inservice teachers. Software evaluation; teacher tools (spreadsheets, databases, email, collaborative tools, and applications); mathematics using technology, programming, technology use issues in schools. Satisfies California Level I teaching credential computer technology standard. Open for credit to pre-service or in-service teaching credential students only. (Lecture 2 hrs., activity 2 hrs.)

311. Topics in Enrichment for Mathematics for the Elementary Teacher (3)
Prerequisites: METED 110 and either METED 211 or MATH 122 or consent of instructor. Formerly MATH 311.
Enrichment topics in mathematics for elementary teacher, such as theory of arithmetic, numeration systems, elementary logic, monosystem, metric system, topological equivalence, probability and statistics and network theory.
Not open for credit to mathematics majors or to students with credit in MATH 311. (Lecture 3 hrs.)

312. Geometry and Measurement for Mathematics Specialists in Elementary and Middle Schools (4)
Prerequisites: METED 110 and one year of high school geometry.
Exploration, conjecture, justification of geometric relationships, applications relevant to teaching geometry (K-10). Problems involving informal geometry, proof, non-Euclidean geometry, congruence, similarity, constructions, translations, tessellations, measurement (English and Metric) in 1, 2, and 3 dimensions. Computer construction utility used.
Not open for credit to Mathematics majors. Letter grade only (A-F). (Lecture 2 hrs., activity 2 hrs.)

402. Problem Solving Applications in Mathematics for Elementary and Middle School Teachers (3)
Prerequisites: "C" or better in both METED 110, and either METED 211 or 312 or the equivalent and a course in Critical Thinking.
Problem solving processes and strategies. Interrelates and applies content from many mathematics areas (real number system, algebra, number theory, geometry, measurement, probability and statistics); develops questioning strategies, fostering understanding of algebra and geometry. Technology integrated throughout.
Not open for credit to Mathematics majors. (Lecture 2 hrs., activity 2 hrs.)

411. Topics and Issues in Secondary School Mathematics (3)
Prerequisites: MATH 310, 341, 355, 380, 410, 444; EDSS 300M or consent of instructor.
Analysis of topics and issues in secondary school mathematics curriculum. Problem solving, mathematical connections; communication, structures, conjecture, proof, manipulatives, technology, assessment. Observations/Interview experiences and portfolio assemble required. Intended for students preparing to enter Single Subject Credential Program in mathematics. (Lecture 2 hrs., activity 3 hrs.)

415. History of Mathematics for Elementary and Middle School Teachers
Prerequisite: "C" or better METED 312.
Mathematics ideas through history with orientation toward various civilizations and cross-cultural views. Covers origins and interrelationships of areas of K-9 mathematics curriculum, including arithmetic, algebra, geometry, statistics and probability, cryptography, and other mathematics topics.
Not open for credit to mathematics (all options) or statistics majors or for students with credit in MATH 310 or METED 315. Letter grade only (A-F). (Lecture 2 hrs., activity 2 hrs.)

420. Number Theory for Elementary and Middle School Teachers
Prerequisite: "C" or better in METED 312.
Concepts and justification involving basic properties of natural numbers, mathematics induction, Euclidean algorithm, and the Fundamental Theorem of Arithmetic. Topics include proofs and problem-solving with divisibility, primes and composites, and prime factorization; congruences and other examples.
Not open for credit to mathematics (all options) or statistics majors or for students with credit in MATH 341 or METED 320. Letter grade only (A-F). (Lecture 2 hrs., activity 2 hrs.)

424. Algebraic Structures for Elementary and Middle School Teachers
Prerequisite: "C" or better METED 312.
Properties of real and complex numbers, groups, rings, fields and vector spaces; polynomial equations and inequalities; polynomial, rational, radical, absolute value, exponential, and logarithmic functions; matrices and vectors.
Not open for credit to mathematics (all options) or statistics majors or for students with credit in MATH 444 or METED 324. Letter grade only (A-F). (Lecture 2 hrs., activity 2 hrs.)
425. Functions, Models and Concepts of Calculus for Elementary and Middle School Teachers
Prerequisite: "C" or better in MTED 312.
Numeric, symbolic, graphical, verbal representation of functions; sequences and sums. Intuitive development of concepts of limit, continuity, derivative, integral. Applications, including differential equations. Algebraic methods and technology emphasized in context of learning calculus. Not open for credit to mathematics (all options) or statistics majors or for students with credit in MTED 325. Letter grade only (A-F). (Lecture 2 hrs; activity 2 hrs.)

430. Connections, Integrations, and Reasoning in Mathematics for Teachers
Prerequisites: "C" or better in MTED 205 or 300; MTED 312, 402, 415, 420, 424, and 425.
Examination, analysis, and integration of mathematics topics appropriate for elementary and middle school teachers. Topics will include problem solving, hypothesis and justification, and mathematics connections and communication.
Not open for credit to mathematics (all options) or statistics majors or for students with credit in MTED 403. Letter grade only (A-F). (Lecture 2 hrs; activity 2 hrs.)

495. Special Topics in Mathematics Education (1-3)
Prerequisite: Consent of instructor.
Topics of interest in Mathematics Education. May be repeated to a maximum of 9 units with different topics in different semesters. Letter grade only (A-F).

GRADUATE LEVEL

500. Advanced Perspectives of Concepts Foundational to Algebra for Teachers (3)
Prerequisite: Multiple Subjects Credential, or consent of instructor.
Analytic investigation of foundational algebra concepts using representations, reasoning and proof, and problem solving. Topics include: number theory, properties of real numbers, proportional reasoning, algebra, discrete mathematics, and functions. This course will not count toward any M.S. degree options in the Department of Mathematics and Statistics. Letter grade only (A-F). (Lecture 3 hrs.)

511. Mathematics Teaching and Learning (3)
Prerequisite: Consent of instructor.
Theories of mathematics teaching and learning. Key issues in mathematics and mathematics education. Historical development and contemporary views of various theoretical perspectives for teaching and learning mathematics, including the roles of standards and visions in mathematics and education organizations. Letter grade only (A-F). (Lecture and Discussion, 3 hrs.)

512. Curriculum and Assessment in Mathematics (3)
Prerequisite: MTED 511 or consent of instructor.
Theories of mathematics curriculum and forms of assessment. Introduces major philosophies, issues, resources and technologies pertaining to curriculum and assessment of mathematics. Relevant histories and contemporary practices of design and implementation of curriculum and assessment of mathematics. Letter grade only (A-F). (Lecture and Discussion, 3 hrs.)

540. Algebra in the School Curriculum (3)
Prerequisite: MTED 511; prerequisite or corequisite: MTED 512 or consent of instructor.

550. Geometry and Measurement in the School Curriculum (3)
Prerequisite: MTED 511; prerequisite or corequisite: MTED 512 or consent of instructor.
Content, curriculum, standards, and research in learning and teaching geometry, spatial sense and measurement in K-12. Justification and proof, applications and abstraction, tools and technology in geometry teaching and learning. Current issues in teaching and learning of geometry and measurement. Letter grade only (A-F). (Lecture and Discussion, 3 hrs.)

560. Analysis in the Secondary Curriculum (3)
Prerequisites: MTED 511 and MATH 361A; prerequisite or corequisite: MTED 512 or consent of instructor.
Fundamental concepts of calculus, functions, mappings, related topics and proofs in real and complex analysis, relating mathematics in secondary curriculum. Issues and techniques in teaching and learning of mathematical analysis. Examination of mathematics education research and mathematics frameworks. Letter grade only (A-F). (Lecture and Discussion, 3 hrs.)

580. Probability and Statistics in the School Curriculum (3)
Prerequisite: MTED 511; prerequisite or corequisite: MTED 512 or consent of instructor.
Content, curriculum, and research in learning and teaching probability and statistics in K-12 schools. Includes role of applications, abstraction, tools and technology in probability and statistics teaching and learning. Letter grade only (A-F). (Lecture and Discussion, 3 hrs.)

590. Special Topics in Mathematics Education (1-3)
Prerequisite: Consent of instructor.
Advanced study of special topics in the field of mathematics education. May be repeated for a total of six units with different topics. Letter grade only (A-F). (Seminar 1-3 hrs.)

695. Seminar in Mathematics Education (1-3)
Prerequisite: Consent of instructor.
Presentation of and discussion of advanced work in mathematics education. May be repeated for a total of six units. Letter grade only (A-F). (Seminar 1-3 hrs.)

697. Directed Studies in Mathematics Education (1-3)
Prerequisites: MTED 511, 512; EDP 520; Advancement to Candidacy; consent of instructor.
Research project in mathematics education. Letter grade only (A-F).

698. Thesis in Mathematics Education (1-4)
Prerequisites: MTED 511, 512; EDP 520; Advancement to Candidacy; consent of Instructor.
Research in mathematics education culminating in a formal report. Letter grade only (A-F).

Statistics Courses (STAT)

108. Statistics for Everyday Life (3)
Exploratory data analysis, methods of visualizing data, descriptive statistics, misuse and manipulation of data in statistical analysis, probability, binomial and normal distributions, hypothesis testing, correlation and regression, contingency tables. Not open for credit to students with credit in MATH 108, 180, 390, or MTED 105, 205. Some course as STAT 108 (Lecture 3 hrs.)

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Statistics Courses (STAT)

380. Probability and Statistics (3)
Prerequisite: MATH 222 or MATH 224.
Letter grade only (A-F). Same course as MATH 380. Not open for credit to students with credit in MATH 380. (Lecture 3 hrs.)

381. Mathematical Statistics (3)
Prerequisites: MATH 247, and MATH 380 or STAT 380.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 381.

410/410. Regression Analysis (3)
Prerequisite: STAT 381.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 480 or 590.

450/550. Multivariate Statistical Analysis (3)
Prerequisite: STAT 381; prerequisite or corequisite STAT 410. Undergraduates register in STAT 450; graduates enroll in STAT 550.
Discriminate analysis, principal components, factor analysis, cluster analysis, log-likelihood ratio tests, canonical correlation, multivariate scaling, and some non-linear techniques. Statistical software used.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 483 or 595.

475. Data Analysis with SAS (3)
Prerequisite: STAT 381 or consent of instructor.
Topics include: Statistical analysis including extraction, presentation of data in graphical form, creation, modification of data sets, interpretation of output, writing of reports. Provides SAS programming techniques for aforementioned topics preparation for SAS base certification.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 483.

482. Random Processes (3)
Prerequisites: MATH 247, and MATH 380 or STAT 380.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 382.

484. Actuarial Science: Models (3)
Prerequisite: STAT 381 or consent of instructor.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 484.

485. Actuarial Science: Financial Mathematics (3)
Prerequisite: STAT 381.
Simple and compound interests, stochastic approaches to interest and annuities, stochastic models of stock, Black-Scholes arbitrage pricing of options and other derivative securities, Markowitz portfolio optimization theory, lito financial calculus, filtrations and martingales.
Letter grade only (A-F). (Lecture 3 hrs.)

495/595. Topics in Modern Statistics (3)
Prerequisite: Consent of instructor.
Topics of current interest from statistics literature.
Letter grade only (A-F). Course may be repeated to a maximum of 6 units with different topics. (Lecture 3 hrs.)

497. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Junior or senior standing and consent of instructor. Not open to graduate students.
Letter grade only (A-F).

510/410. Regression Analysis (3)
Prerequisite: STAT 381.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 480 or 590.

520. Statistical Inference (3)
Prerequisite: STAT 381 or consent of instructor.
Properties of a random sample, convergence in probability, law of large numbers, sampling from the normal distribution, the central limit theorem, principles of data reduction, likelihood principle, point estimation, Bayesian estimation, methods of evaluating estimators, hypothesis testing, decision theory, confidence intervals.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 590.

530. Experimental Design (3)
Prerequisite: STAT 381 or consent of instructor.
Design of experiments to permit efficient analysis of sources of variation with application to quality assurance. Factorial and fractional factorial designs; block designs; confounding, Fixed and random effect models. Effects of departure from assumptions; transformations. Response surface techniques. Taguchi methods.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 581.

552. Statistical Quality Control (3)
Prerequisite: STAT 381 or consent of instructor.
Introduction to methods of statistical quality control. Includes control charts, acceptance sampling, process capability analysis, and aspects of experimental design.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 554.

540. Survey Sampling (3)
Prerequisite: STAT 381 or consent of instructor.
Theory and practice of sampling from finite populations. Simple random sampling, stratified random sampling, systematic sampling, cluster sampling, properties of variance estimators including ratio, regression, and difference estimators. Error estimation for complex samples.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 593.

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544. Statistical Consulting (3)
Prerequisites: STAT 381 and STAT 410/510 or consent of instructor.
The methodology of statistical consulting: guidelines for client-consultant communications; presentations to clients; basics of writing final technical reports, thorough case studies involving advanced statistical analysis, invited client presentations, real-life projects, group discussions, written and oral statistical reports by students.
Letter grade only (A-F). (Lecture 3 hrs.)

550/450. Multivariate Statistical Analysis (3)
Prerequisite: STAT 381, prerequisite or corequisite STAT 410.
(Undergraduates register in STAT 450; graduates enroll in STAT 550.)
Multivariate analysis, principal components, factor analysis, cluster analysis, logistic regression, canonical correlation, multidimensional scaling, and some nonlinear techniques. Statistical software used.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 455 or 553.

560. Nonparametric Statistics (3)
Prerequisite: STAT 410, or 510, or consent of instructor.
Alternatives to normal theory statistical methods, analysis of categorical and ordinal data, methods based on ranks, measures of association, goodness of fit tests, order statistics.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 455 or 553.

570. Statistical Simulation (3)
Prerequisite: STAT 381 or consent of instructor.
Simulation modeling techniques; generation of discrete and continuous random numbers from given distributions; Monte Carlo methods; discrete event simulations; statistical analysis of simulated data; variance reduction; statistical validation; introduction to simulation languages; industry applications. Statistical packages used.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 557 or 467.

572. Computational Statistics (3)
Prerequisite: STAT 381 or consent of instructor.
Random number generation, sampling and subsampling, exploratory data analysis, Markov chain Monte Carlo methods, density estimation and EM algorithm. Topics of current interest.
Letter grade only (A-F). (Lecture 3 hrs.)

574. Data Mining (3)
Prerequisite: STAT 410, or 510, or consent of instructor.
Basics of data mining algorithms with emphasis on industrial applications. Prediction and classification techniques such as decision trees, neural networks, Multivariate Adaptive Regression Splines, and other methods. Several software packages utilized.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 556.

576. Data Informatics (3)
Prerequisite: STAT 410/510 or consent of Instructor.
Genetic algorithms, fuzzy logic, discrete choice analysis, online analytical processing, structured query language, statistical database management, and text and web mining. Topics of current interest.
Letter grade only (A-F). (Lecture 3 hrs.)

580. Time Series (3)
Prerequisite: STAT 381 or consent of instructor.
Includes moving averages, smoothing, Box-Jenkins (ARIMA) models, testing for nonstationarity, model fitting and checking, prediction and model selection, seasonal adjustment, ARCH, GARCH, cointegration, state-space models. Statistical packages used throughout the course.
Letter grade only (A-F). (Lecture 3 hrs.) Not open for credit to students with credit in MATH 582.

590. Statistical Analysis of Medical Data (3)
Prerequisite: STAT 381 or consent of instructor.
Lifetime distributions, hazard and survival functions, censoring and truncation, Kaplan-Meier and Nelson-Aalen estimators, Cox proportional hazard models, re-sample tests, goodness-of-fit tests, Bayesian survival analysis, analysis of multivariate survival data, exploring longitudinal data designs and models, clinical trials.
Letter grade only (A-F). (Lecture 3 hrs.)

595/495. Topics in Modern Statistics (3)
Prerequisite: Consent of instructor.
Topics of current interest from statistics literature.
Letter grade only (A-F). Course may be repeated to a maximum of 6 units with different topics. (Lecture 3 hrs.)

695. Seminar in Applied Statistics (3)
Prerequisite: Consent of instructor.
Presentation and discussion of advanced work in applied statistics. May be repeated to a maximum of six units. Letter grade only (A-F).

697. Directed Studies in Applied Statistics (1-3)
Prerequisite: Consent of instructor.
Research on a specific area in applied statistics. Topic for study to be approved and directed by a statistics faculty member.
Letter grade only (A-F).

698. Thesis or Project (1-6)
Prerequisite: Advancement to candidacy.
Formal report of research or project in mathematics.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
MECHANICAL AND AEROSPACE ENGINEERING
College of Engineering

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Faculty: Behnam Bahr, Eric G. Beaudoin, Huan-Hu Chen, Hsin-Piao Chen, Mihir K. Das (Emeritus), Rasim Esfandian, Hamid Hefazi, Min-Tien John, Bei Lu, Parvada Mairiyong, Owair G. Onner (Emeritus), Hamid H. Rostai, Thomas Robinson (Emeritus), Reza Toosi, Jalal Torabiabadi, Paviz Yawan, Hsein-Yang Yeh
Undergraduate Advisors: Jalal Torabiabadi (ME/Program Coordinator), Huan-Hu Chen (AE), Paviz Yawan (FT)
Graduate Advisors: Hamid Rostai (ME), Hsin-Piao Chen (AE)
Administrative Support Coordinator: Leanne Hayes

Students desiring detailed information should contact the department for referral to one of the faculty advisors.

Career Possibilities
Mechanical Engineer • Aerospace Engineer • Facilities Engineer • Manufacturing Engineer • Design Engineer • Sales Engineer • Plant Engineer • Safety Engineer • Tool Engineer • Project Engineer • Utilization/Test Engineer • Automotive Engineer • Production Engineer • Manufacturing Engineer • Standards Engineer • Industrial Engineer • Factory Plant Layout Engineer • Material Schedule • Tool Planner • Safety Engineer • Product Safety Engineer • Production Planner • Statician • Staff Assistant
Specification Writer • Tooling Quality Assurance Worker • Quality Planning Analyst • Process Engineering • Estimator • Manufacturing Engineering • Quality Engineer • Supervisor Vendor Quality • Production Engineer • Material Schedule • Quality Control Technician • Configuration Analyst • Quality Manager • Production Manager • Industrial Engineering • Production Safety Engineer • Safety Engineer • Metrologist • Liaison Worker • Methods and Time-Study Engineer • Traffic Control Engineer • Technical Sales Representative • Process Engineer • Estimator • Associate Engineer • Field Engineer (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Accreditation
The Bachelor of Science in Aerospace Engineering and the Bachelor of Science in Mechanical Engineering are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone (410) 347-7700; website: http://www.abet.org.

The Culture of Continuous Improvement
The Department of Mechanical and Aerospace Engineering continuously seeks input from its students, alumni, employers, community, and industry leaders in order to improve its programs and ensure that students receive the best possible education and training. It is supported by a professional Advisory and Development Council (ADC) comprised of outstanding engineers and executives from the industry and government in Southern California. The role of the ADC is to form a liaison between the University and industry and to help the administration and faculty remain informed of modern engineering practices.

Mechanical and Aerospace Engineering at CSULB
The mission of the Department of Mechanical and Aerospace Engineering (MAE) is to fulfill the needs of students, of industry and government, and of the local, national, and global community in the area of mechanical and aerospace engineering education and research. The mission is implemented through the following objectives:
1. Provide undergraduate students with a comprehensive education for successful careers in mechanical or aerospace engineering.
2. Provide graduate students with an advanced engineering education for the enhancement of their careers and access to doctoral studies.
3. Provide an environment for students and faculty to engage in creative thinking and research in the areas of mechanical and aerospace engineering.
4. Promote mechanical and aerospace engineering at the University and the broader community.

To achieve this mission, the department offers the following programs:
Undergraduate
• Bachelor of Science in Aerospace Engineering (BSAE);
• Bachelor of Science in Mechanical Engineering (BSME);
• Bachelor of Science in Engineering (BSE) with options in Materials Engineering or Industrial Management Engineering;
• Bachelor of Science in Manufacturing Engineering Technology;
Graduate
• Master of Science in Aerospace Engineering (MSAE);
• Master of Science in Mechanical Engineering (MSME);
• Master of Science in Engineering (MSE) with an emphasis in Management Engineering;
• Ph.D. in Engineering and Industrial Applied Mathematics (offered jointly with Claremont Graduate University).

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Post-Baccalaureate Certificate Programs

• Certificate in Aerospace Manufacturing
• Certificate in Heating, Ventilating, and Air-Conditioning (HVAC)
• Certificate in Industrial Plastics Processing and Design
• Certificate in Energy Conversion and Power Systems Engineering

Student Organizations

Students have the benefit of joining the student chapters of professional societies:

• AIAA (American Institute for Aeronautics and Astronautics)
• ASME (American Society for Mechanical Engineers)
• SAE (Society of Automotive Engineers)
• SPE (Society of Petroleum Engineers)
• ASHRAE (American Society of Heating, Refrigeration, and Air Conditioning Engineers)
• SME (Society of Manufacturing Engineers)
• ASQ (American Society of Quality)
• Society of Women Engineers (SWE)
• Honor societies such as Tau Beta Pi

As student members of professional societies, students can attend local, regional, national, and international meetings and conferences, participate in student contests, become eligible for sponsored scholarships, interact with professionals from industry, and many other benefits.

Undergraduate Programs

MECHANICAL ENGINEERING PROGRAM

BSME Program Educational Objectives and Program Outcomes

The goal of the undergraduate program in mechanical engineering is to produce well-rounded engineers prepared for careers in mechanical engineering or related disciplines, utilizing an excellent education in the fundamentals of engineering mathematics, sciences, and design. In order to:

1. Create innovative solutions responsive to customer needs and meeting societal challenges.
2. Apply their knowledge in communicating and translating ideas and plans into working engineering systems.
3. Effectively function as a team member and/or leader in global, multi-disciplinary technical environments.

Based on these broad objectives, the following Student Learning Outcomes have been developed:

a. An ability to apply knowledge of mathematics, science, and engineering.

b. An ability to design and conduct experiments, as well as to analyze and interpret data.

c. An ability to design a system, component, or process to meet desired needs with realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

d. An ability to function on multi-disciplinary teams.

e. An ability to identify, formulate, and solve engineering problems.

f. An understanding of professional and ethical responsibilities.

g. An ability to communicate effectively.

h. The broad education necessary to understand the impact of engineering solutions in a global and societal context.

i. A recognition of the need for, and an ability to engage in, life-long learning.

j. A knowledge of contemporary issues.

k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Bachelor of Science in Mechanical Engineering (code MAE_BS01) (134 units)

The realm of mechanical engineering is so extensive that training must be broad and basic, providing grounding in fundamentals which an engineer requires in order to gain competence in any specialized field. In view of this, the mechanical engineering curriculum includes ample foundation courses in mathematics, physics, chemistry, and design graphics. These are followed by courses in energy conversion, thermodynamics, fluid mechanics, mechanics and strength of materials, metallurgy, design, computer-aided design/ computer-aided manufacturing (CAD/CAM). The opportunity to further explore a particular area of interest is provided by additional elective courses in the senior year.

The laboratories of the department are provided with modern equipment for undergraduate instruction in the following areas: instrumentation and measurements, fuels and lubricants, materials and metallurgy, thermodynamics, strength of materials, computer-aided design/computer-aided manufacturing (CAD/CAM). The opportunity to further explore a particular area of interest is provided by additional elective courses in the senior year. The laboratories of the department are provided with modern equipment for undergraduate instruction in the following areas: instrumentation and measurements, fuels and lubricants, materials and metallurgy, thermodynamics, strength of materials, computer-aided design/computer-aided manufacturing (CAD/CAM). The opportunity to further explore a particular area of interest is provided by additional elective courses in the senior year.

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The laboratories of the department are provided with modern equipment for undergraduate instruction in the following areas: instrumentation and measurements, fuels and lubricants, materials and metallurgy, thermodynamics, strength of materials, computer-aided design/computer-aided manufacturing (CAD/CAM). The opportunity to further explore a particular area of interest is provided by additional elective courses in the senior year.
Based on these broad objectives, the following Student Learning Outcomes have been developed:

1. The students graduating in aerospace engineering will possess the skills in mathematics, physics and chemistry required to solve real world problems.
2. The students will have a firm understanding of engineering science fundamentals that will enable them to analyze real world problems and propose an appropriate solution to these problems.
3. The students will have the ability to apply their knowledge in aerospace fundamental disciplines to the analysis and design of components. Those aerospace fundamental disciplines include: aerodynamics; aerospace materials and structures; propulsion; space environment and space systems; communications and avionics systems; orbital and flight mechanics; and stability and control.
4. The students will have the ability to work in teams and: (1) carry out simplified design problems from the conceptual level to the realization of a manufacturing plan; or (2) design complex systems such as aircraft or spacecraft, from a preliminary design point of view. Projects address economic and business aspects such as commercial viability.
5. The students will have the ability to design and conduct experiments, as well as to analyze and interpret data.
6. The students will have an understanding of professional and ethical responsibility.
7. The students will have the ability to build on their knowledge and will be trained to be lifelong learners, pursuing and interested in independent study, research, and development.
8. The students will have good oral, written, and graphical communication skills.
9. The students will be trained in the role of the engineer in society and have an awareness of environmental concerns in the engineering profession.
10. The students will have knowledge of contemporary issues and current projects in aerospace engineering and of technical, design, and business challenges faced by the aerospace industry.

**Bachelor of Science in Aerospace Engineering (code MAE_BS02) (134 units)**

The curriculum is designed to supplement mathematics, science and basic engineering courses in order to give students the specialization needed in different areas of aerospace engineering. In addition to acquiring technical knowledge, graduates will have completed appropriate courses in communications and in humanistic social studies.

**Requirements**

A grade of "C" or better must be achieved in all required courses listed below. A minimum of 134 units is required.

**Lower Division:** CHEM 111A; MATH 122, 123, 224; PHYS 151, 152 (or EE 210 and 210L); CE 205; ENGR 101, 102; MAE 101A, 172, 205.

**Upper Division:** ECON 300; MATH 370A; MAE 300, 305, 330, 333, 334, 350, 365, 371, 373, 374, 381, 390, 434, 440, 452, 453, 465, 478, 479, 481, 483, and 6 units of electives from the elective list below.

Electives: MAE 408, 422, 435, 451, 454 and 490A.

**OTHER PROGRAMS**

**Bachelor of Science in Engineering Option in Materials Engineering (code MAE_BS03) (135 units)**

Modern engineering applications in all fields require new materials with properties well beyond those obtainable with the alloys available years ago. New materials, such as composites, ceramics, polymers, semiconductors and their manufacturing processes, are needed for such diverse applications as air transports, undersea deep submergence vessels, magnetic and semiconducting devices. Scientific knowledge in this area has expanded recently at a rate comparable to that experienced by the field of electronics. The materials option is offered to meet the demand for materials oriented engineers.

Course work is directed towards the understanding of the properties of materials in terms of their atomic structure, and emphasis is placed on the behavior of materials in engineering applications. The laboratories have equipment for studies in this field and include facilities for the determination of crystal structure, microscopic and X-ray diffraction, and scanning electron microscope examination of solids, thermal and mechanical treatment and the determination of properties at low and high temperatures.

**Requirements**

Minimum 135 units including University General Education requirements.

**Lower Division:** CHE 200; CHEM 111A, 111B; CE 205, EE 211, 211L; MATH 122, 123, 224; ENGR 101; MAE 172, 205, 272; PHYS 151, 152.

**Upper Division:** CHE 415; CE 406; ECON 300; EE 420; MATH 370A; MAE 392, 393, 394, 395, 396; 409, 459, plus approved engineering elective courses.

For more information on admission to this program, please contact Dr. Jialin Torabzadeh, Undergraduate Advisor, Mechanical Engineering Program.

**Option in Industrial-Management Engineering (code MAE_BS04) (135 units)**

An interdisciplinary degree in which both the College of Business Administration and the College of Engineering provide courses enable students to have a technical engineering background plus a good foundation in business and management practices. The option consists of core engineering courses through the junior year with an addition of business courses in accounting, business law, management, inventory practices and operations research.

Elective structure is such that the student may specialize in either engineering, or a combination of both engineering and business.

**Requirements**

**Lower Division:** ACCT 201; CHEM 111A; CE 205; EE 211, 211L; BLDW 220; MATH 122, 123, 224; ENGR 101; MAE 172, 205; PHYS 151, 152.

**Upper Division:** CE 406; ECON 300; BLDW 390; IS 310; MATH 370A; MGMT 300; MGMT 411 or 412 or 413; MAE 305, 310, 322, 330, 371, 373, 376, 459, 476, and approved electives to total at least 135 units.
Emphasis in Quality Assurance

The primary objective is to prepare graduates to pursue careers related to product manufacturing and quality assurance. Emphasis is placed on specific job skills required of entry-level professionals in the manufacturing industries including oral and written communication, and management principles. The program is applications-oriented, and is available to students interested in a career as Quality Assurance technologists. Designed to meet ABET criteria for accredited programs in engineering technology.

Requirements

Upper Division: ET 419 plus 2 units of electives from ET 4090, BLAW 220.

Fieldwork Requirements

Fieldwork experience is required for the BS in Manufacturing Engineering Technology, consisting of no less than three months of full-time (40 hours/week or equivalent part-time) employment in an approved industry or governmental agency. The student must hold a position equivalent to a technician or higher which affords the opportunity to exercise responsibility usually given to those who have completed at least two years of college. The fieldwork must be completed prior to graduation, then certified and approved by the program advisor.

Certificate in Aerospace Manufacturing

(code MAE_CT01)

Director: Hamid Hejazi

This Certificate Program is designed to give students and working engineers an educational opportunity to focus on the complex and dynamic issues related to aerospace manufacturing. The program consists of 19 semester units, with seven required core courses.

Requirements

1. Consent of the Program Director.
2. Preparation of a Program Planner.
3. Satisfactory completion of the required courses as listed below.
4. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
5. Completion of a Bachelor of Science degree in an approved major. The Certificate may be awarded concurrently with or subsequent to a baccalaureate degree.

Required Courses

The Certificate Program requires a minimum of 19 semester units (seven core courses): MAE 408, 455, 456, 457, 458; ENGR 511, 574. Students should consult with the program director to assess any needed prerequisites.

Certificate in Heating, Ventilating, and Air-Conditioning Engineering

(code MAE_CT03)

Director: Hamid Rabiei

The 20-unit HVAC Certificate Program is designed to prepare engineering and science students for designing various HVAC systems and to familiarize them with HVAC equipment and their selection process.
With a proper choice of classes, you may also earn this Certificate in conjunction with your bachelor’s degree. Contact the Department of Mechanical and Aerospace Engineering for more information.

Requirements
1. Consultation with the Program Director and preparation of a Program Planner.
2. Satisfactory completion of the required courses, as listed below.
3. Approval of the special project and its satisfactory completion (MAE 491);
4. Completion of a Bachelor of Science degree in an approved major. The Certificate may be awarded concurrently with or subsequent to the baccalaureate degree.

Required Courses
The HVAC Certificate Program requires a minimum of 20 semester units, as indicated below: MAE 330, 431, 438/538, 490E, 491, MAE 333 or CE 335; MAE 440 or CE 336

Certificate in Industrial Plastics Processing and Design (code MAE_CT02)
Director: Min-Ton Jahn

The certificate program in Industrial Plastics Processing and Design is an interdisciplinary program sponsored by the Mechanical and Aerospace Engineering and Chemical Engineering Departments. Polymeric materials rank second in tonnage use currently of all materials, and indications are that in the near future they may surpass metals in total usage. There is a definite need for personnel familiar with the processing and special design considerations necessary to properly make use of the special properties of this broad class of materials. The program permits a student to study in detail the industrial production processes, material testing procedures, economics of the polymers industry and degradation of polymers. All students in the program complete an individual project, consisting of the design of an item, choice of proper polymeric materials for the particular application, choice of the processing operation and construction of the necessary molding tools and testing of the completed device. Contact the Department of Mechanical and Aerospace Engineering.

Requirements
1. A bachelor’s degree in engineering. The certificate may be awarded concurrently with the degree.
2. Satisfactory completion of 22 units minimum from the courses listed below: Polymeric Processing: CHE 200; MAE 471 and either 472 or 476; and a minimum of 3 units in either CHE 490 or MAE 491. Properties of Polymers: MAE 373, 374.
3. Approval of the certificate committee for admission to the certificate program. An advisor will be appointed to you at that time.
4. The advisor’s approval of your completion of the special project.

Certificate in Energy Conversion and Power Systems Engineering (code MAE_CT04)
Director: Jalal Torabzadeh

The 27-unit certificate program is an undergraduate program designed to prepare Electrical and Mechanical Engineering students to become proficient in the analysis and design of power generating systems, such as direct conversion, coal burning, hydraulic, nuclear, solar, wind, and various other types of power plants.

Requirements
1. Consultation with program advisors in Electrical or Mechanical and Aerospace Engineering Departments and preparation of a program planner.
2. Completion of the following core courses: CE 335; EE 350, 452; MAE 330, 336, 431;
3. Completion of 9 units from the following list of elective courses: EE 453, 455, 458, 460, 550, 551, 552, 553; MAE 490, 538;
4. Completion of a Bachelor of Science degree in an approved major. This certificate may be awarded concurrently with or subsequently to baccalaureate degree.

GRADUATE PROGRAMS

The goal of the Master’s programs in mechanical and aerospace engineering, the MSME and MSME, is to provide students with the advanced engineering education needed to enhance their careers and pursue doctoral studies.

Admission to the MSME or MSME degree programs requires a minimum GPA of 2.70 in the last 60 upper-division units completed.

Master of Science in Mechanical Engineering (code MAE_MS02)

The Master of Science in Mechanical Engineering is offered by the Department of Mechanical and Aerospace Engineering, College of Engineering. Built on a broad and basic undergraduate instruction, the graduate level courses and graduate degree, the Master of Science in Mechanical Engineering, develop competence in the fields of design and manufacturing, dynamics and controls, materials and composites, mechanics and Finite Element Methods, and thermal systems. Modern laboratories in CAD, fluid power and mechanics, heat power, control systems, manufacturing, plastics, design, thermodynamics, heat flow, metallurgy, and mechanical properties of materials are maintained for undergraduate and graduate instruction, and graduate research. Design rooms, laboratories within the other engineering departments, computer facilities, and machine shops supplement the mechanical engineering facilities.

Additional details may be found in the Schedule of Classes. For further information and complete degree requirements contact Mechanical and Aerospace Engineering Department.
Admission Procedures

To be considered for admission, the graduate applicant must have earned a bachelor’s degree from an accredited institution, have been in good standing at the last institution attended, and have a grade point average (GPA) of at least 2.7 for the last 60 semester units (90 quarter units) attempted. There is no separate department application, but applicants must submit a second set of transcripts to the department.

Prerequisites

1. A bachelor’s degree in mechanical engineering, engineering, or other appropriate discipline from an accredited college or university with a minimum grade point average (GPA) of 2.7 in the last 60 semester units attempted.
2. Students must consult with the program graduate advisor prior to enrolling in any course for their program.
3. The Graduation Writing Assessment Requirement (GWAR) during the first semester in residence. Failure to attempt to fulfill the GWAR during the first semester will prevent registration in engineering courses in subsequent semesters.

Note: Before being admitted, a qualified student without a mechanical engineering degree must provide a written statement to the MSME graduate advisor that he/she understands that all deficiencies must be removed before attempting graduate-level courses.

Requirements

PLAN I
Completion of a minimum of 30 units beyond the bachelor’s degree in upper-division and graduate courses approved by the student’s Department Graduate Studies Committee, including:
1. Eighteen units of 500- and/or 600-level courses in mechanical and aerospace engineering.
2. Six units of electives selected from approved upper-division or graduate courses from appropriate areas.

PLAN II
Completion of a minimum of 36 units beyond the bachelor’s degree in upper-division and graduate courses approved by the student’s Department Graduate Studies Committee, including:
1. Twenty-four units of 500- and/or 600-level courses in mechanical and aerospace engineering.
2. Six units of electives selected from approved upper-division or graduate courses from appropriate areas.
3. Completion of six units of MAE 697 (Directed Research).

Advancement to Candidacy
Students applying for advancement to candidacy must:
1. have completed all undergraduate deficiencies with grades of "C" or better;
2. have attained an overall grade point average of (GPA) of 3.0;
3. have completed at least 12 units applicable to the degree with a GPA of at least 3.0;
4. have fulfilled the Graduation Writing Assessment Requirement (GWAR). This requirement can also be met by presenting evidence that the student met the requirement while an undergraduate at CSULB or at certain CSU campuses;
5. and have their program of studies approved by the ME program’s graduate advisor.

Master of Science in Aerospace Engineering (code MAE_MS01)

The Master of Science in Aerospace Engineering program was created to educate graduate students in subjects relevant to the requirements of the aerospace industry. This program has been designed for both full-time students and working professionals, and is unique in its emphasis on practical applications and its intimate interaction with the aerospace industry. Several areas of specialization are available for an optimum contribution to the student’s career goals.

The MSAE program involves modern computational and experimental methods and provides the essential information which will permit students to acquire the knowledge and skills which are of immediate practical importance. This knowledge is communicated in the advanced courses listed in the MAE curriculum and used in the conduct of a thesis or project.

The areas of emphasis within the MSAE program include:
- Space systems engineering;
- Aircraft systems engineering;
- Computational fluid dynamics;
- and aerospace structures and materials.

Both graduate and undergraduate programs benefit from the advice of an advisory committee comprised of senior staff from aerospace companies, government agencies, and universities.

Further information may be obtained from the Department of Mechanical and Aerospace Engineering’s website: http://www.csulb.edu/colleges/coe/mae/.

Prerequisites

1. A bachelor’s degree in an accredited curriculum in Aerospace or Mechanical engineering with a minimum grade point average of 2.70 in the last 60 (semester) upper-division units attempted. Applicants with lower GPA may be admitted subject to successful completion of appropriate deficiencies.
2. A bachelor’s degree in engineering, mathematics, science or other appropriate discipline with the requirement that essential undergraduate prerequisites in engineering be satisfied.
3. Graduate students must consult with the graduate advisor for information concerning procedures and requirements for appropriate approval of their courses of study prior to enrolling in their graduate programs.

Advancement to Candidacy

Prerequisites for advancement to candidacy are:
1. Classified status.
2. An approved program of studies for the Master of Science in Aerospace Engineering.
3. Fulfillment of the CSULB Graduation Writing Assessment Requirement (GWAR).
4. Be enrolled in regular session.
5. Application for Advancement to Candidacy must be done prior to or concurrent with enrollment in MAE 698, Thesis.

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Requirements

PLAN I

Completion of a minimum of 30 units beyond the bachelor's degree in upper-division and graduate courses approved by the student's Department Graduate Study Committee, including:
1. Eighteen units of 500- and/or 600-level courses in mechanical and aerospace engineering;
2. Six units of electives selected from approved upper-division or graduate courses in appropriate areas;
3. Completion of six units of MAE 698, and submission of a written thesis.

PLAN II

Completion of a minimum of 36 units beyond the bachelor's degree in upper-division and graduate courses approved by the student's Department Graduate Study Committee, including:
1. Twenty-four units of 500- and/or 600-level courses in mechanical and aerospace engineering;
2. Six units of electives selected from approved upper-division or graduate courses from appropriate areas;
3. Completion of six units of MAE 697.

Master of Science in Engineering (code COE_MS01)

Admission to the MSE graduate program requires a minimum GPA of 2.7 in the last 60 upper-division units attempted.

For requirements, see the description in the College of Engineering section of this catalog.

The Mechanical and Aerospace Engineering Department administers two emphases under the Master of Science in Engineering. The other prerequisites and requirements are the same as for the MSME and MSME programs.

Management Engineering Emphasis

A special management perspective is required for the successful generation of technical products and services, and thus the Master of Science in Engineering: Program in Management Engineering is offered by the College of Engineering at California State University, Long Beach.

In order to plan, design, direct, and control technical projects, technical managers must be capable of inspiring and developing professional personnel. They must be able to integrate planning, manufacturing, and budgetary concerns of the project and be able to easily communicate with general management.

The Emphasis in Management Engineering primarily admits students with a traditional engineering background. It emphasizes the management of engineering-based endeavors and does not require undergraduate business courses as prerequisites for graduate work.

Well-versed for working students, graduate courses in management engineering are offered in the late afternoon and evening. An individualized program is developed according to each student's undergraduate degree area of interest, or some well-defined industrial application; interdisciplinary approaches are encouraged.

The graduate program supports innovative thesis topics that enable the degree candidate to be knowledgeable about new applications and/or areas in management engineering.

The graduate Emphasis in Management Engineering at California State University, Long Beach seeks to:

- Provide industry and government with engineers who have essential management knowledge and skills.
- Provide engineers with career advancement opportunities in project management and the management of research, manufacturing and other technical enterprises.
- Educate engineers as managers who can effectively plan and implement technological projects.

Ph.D. in Engineering and Industrial Applied Mathematics (code COE_PH01)

For requirements, see the description in the College of Engineering section of this catalog.

Courses (MAE)

LOWER DIVISION

101A. Introduction to Aerospace Engineering (1)
Role of various types of engineering specialties in the development of an actual aerospace vehicle project. Current social, ethical, and environmental issues in Aerospace Engineering solutions. Life-long learning skills using resources from professional societies. Internet is also emphasized.
Letter grade only (A-F). (Lecture-problem 1 hour)

101B. Introduction to Mechanical Engineering (1)
Prerequisite: Freshman standing or consent of Instructor.
Introduction to mechanical engineering as a profession. Past, present, and future trends and related professional opportunities and challenges. Introduction to mechanical engineering curriculum studies. Social, economical, cultural, legal and ethical issues related to mechanical engineering and its applications.
Letter grade only (A-F)

172. Engineering Design Graphics (3)
Graphic concepts and visualization. Graphic expressions using CAD software, emphasis on industry practices involving part and assembly drawings for actual products, standards, tolerances, surface finishes, and other attributes on drawings. Production drawings, projects involving complete design of systems and subsystems.
Letter grade only (A-F). (Lecture-problems 2 hrs., design laboratory 3 hrs.)

205. Computer Methods in Mechanical and Aerospace Engineering (2)
Prerequisites: MATH 122 and PHYS 151.
Application of computer programming to engineering problem solving. Structured approach to problems. Input/output concepts for both numerical and graphical results.
Letter grade only (A-F). (Lecture-problems 1 hour, laboratory 3 hours)

272. Introduction to Manufacturing Processes (2)
Prerequisite: MAE 172.
Manufacturing processes, properties of materials, metals production; foundry, casting, heat treatment; welding, powder metallurgy; plastics, metrology; working metals, press work, machine tool elements, numerical control; metal cutting/forging; drilling, boring, milling; shaping/planning, sawing, brazing, grinding, sanding, gears, gear-cutting. Threads, thread-cutting.
Letter grade only (A-F). (Lecture-problems 1 hour, laboratory 3 hours)
305. Numerical Methods in Mechanical and Aerospace Engineering (3)
Prerequisites: MAE 205 and MATH 370A.
Letter grade only (A-F). (Lecture-problems 3 hours)

310. Safety and Reliability in Systems Design I (3)
Prerequisites: MAE 205, MATH 360A, or consent of instructor.
Introduction to probabilistic design analysis; safety and reliability, tools to assess adequacy of designs; identification of critical elements and practical design guidance; compliance with the requirements. Coherent use of concepts, tools, and programs to produce reliable, safe system designs. Group projects.
Letter grade only (A-F). (Lecture-problems 3 hours)

322. Engineering Materials and Materials Processes (3)
Prerequisites: CHEM 111A, MATH 123, MAE 172.
Letter grade only (A-F). (Lecture-problems 3 hours)

330. Engineering Thermodynamics I (3)
Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A or consent of instructor.
Laws of thermodynamics. Properties of liquids, gases and vapors. Sources of energy and conversion to work. Introduction to heat transfer and psychrometry.
Letter grade only (A-F). (Lecture-problems 3 hours)

333. Engineering Fluid Dynamics (3)
Prerequisites: CE 209, MATH 310A.
Letter grade only (A-F). (Lecture-problems 3 hours)

334. Aerodynamics I (3)
Prerequisite: MAE 333.
Letter grade only (A-F). (Lecture-problems 3 hours)

336. Power Plant Design (3)
Prerequisite: MAE 330.
Design of power production systems, including steam power plants, gas turbines and auxiliary power units. Survey of alternate power sources including wind, solar, geothermal, ocean thermal and biomass. Group and/or individual design projects.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

337. Thermal Engineering Laboratory (2)
Prerequisites: MAE 336.
Thermodynamics, heat transfer and fluid flow property measurements, measurement of heating value of fuels, energy and performance of thermal systems, including internal combustion engines, power and heat generating systems, refrigeration and air conditioning systems, and heat exchangers.
(Lecture-problems 1 hour, Laboratory 3 hours) Letter grade only (A-F).

350. Flight Mechanics (3)
Prerequisite: CE 205.
Turbojets, propeller and other flights in the vertical plane, turning flight in the horizontal plane. Piston props: flight and other flights in the vertical plane, turning flight in the horizontal plane. Performance analysis and design examples.
(Lecture-problems 3 hours) Letter grade only (A-F).

361. Materials and Properties Laboratory (1)
Prerequisites: ENGL 100 or equivalent, MAE 300, 322, 373.
Study of the effects of thermal processing and mechanical processing on the properties and microstructures of metals, alloys, and other materials. Determination of material properties using tensile test, torsion test, and beam test. Study of the statistical nature and reliability of test results.
(Laboratory 3 hours) Letter grade only (A-F).

365. Aerospace Structures I (3)
Prerequisite: MAE 373.
(Lecture-problems 3 hours) Letter grade only (A-F).

371. Analytical Mechanics II (Dynamics) (3)
Prerequisites: CE 205, MAE 205 or CE 206.
Newton’s Laws and the principles of work and energy and impulse and momentum applied to the study of particles and rigid body motion. Engineering applications with emphasis on plane motion problems. Individual and/or group projects involving in-depth numerical analysis.
(Lecture-problems 3 hours) Letter grade only (A-F).

373. Mechanics of Deformable Bodies (3)
Prerequisite: CE 205.
Application of the principles of mechanics to the design of structural and machine members and connections; stress analysis of beams and columns. Properties and strength of engineering materials. Design projects.
(Lecture-problems 3 hours) Letter grade only (A-F).

374. Mechanical Properties of Materials Laboratory (1)
Prerequisites: MAE 300, 373, ENGL 100 or equivalent.
Physical and mechanical properties of engineering materials and their relationships to structural elements; accuracy of measurements; statistical analysis of experimental data; professional laboratory projects.
(Laboratory 3 hours) Letter grade only (A-F).

375. Kinematics and Dynamics of Mechanisms (3)
Prerequisites: MAE 272, 371.
Fundamentals of linkages, cams, gears and gear trains. Velocity and acceleration analysis of mechanisms leading to dynamic loading of machine parts; dynamic analysis and balancing of rotating machines; internal combustion engine balances. Individual design projects.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).
376. Modelling and Analysis of Dynamic Systems (3)
Prerequisite: MAE 371, MATH 370A.
Modelling and analysis of dynamic systems including mechanical, electrical, electro-mechanical, and hydraulic systems. Use of complex algebra and Laplace transforms. Mathematical modeling of dynamic systems in state-space. Linear systems analysis in time and frequency domains. Introduction to feedback control systems.
(Lecture-problems 3 hours) Letter grade only (A-F).

381. Fundamentals of Spacecraft Dynamics (3)
Prerequisites: PHYS 152, MATH 370A, and MAE 371.
(Lecture-problems 3 hours) Letter grade only (A-F).

390. Aerospace Engineering Seminar (1)
Prerequisite: Upper division standing.
Introduction to effective communication techniques and oral presentations. Guest speakers from industry cover topics such as an engineer's professional practice, social responsibilities, ethical and legal issues, as well as latest developments in Aerospace Engineering. Students write reports regarding these presentations.
(Seminar 1 hour) Letter grade only (A-F).

408/.508. Systems Engineering and Integration (3)
Prerequisite: Senior standing or consent of instructor.
Introduction to tools and methods employed by systems engineers in aerospace industry. Development of systems functions, requirements, verification and validation, and interfaces in the context of integrated product teams and the product life cycle. Trade studies and risk management.
(Lecture-problems 3 hours) Letter grade only (A-F).

409. Modern Computational Aspects in Mechanical Engineering (3)
Prerequisites: Senior standing in engineering and consent of instructor.
Computational aspects of Mechanical Engineering. Subjects include finite element analysis of structures, fluids, or heat transfer; boundary element analysis. May be repeated to a maximum of 6 units with consent of department.
(Lecture-problems 3 hours) Letter grade only (A-F).

422/.522. Composite Materials (3)
Prerequisite: MAE 373.
(Lecture-problems 3 hours) Letter grade only (A-F).

431. Heat Transfer Systems Design (3)
Prerequisites: MAE 305, 330; CE 335.
Analysis of heat transfer by conduction, convection and radiation. Investigation of steady state and transient heat transfer systems. Computer methods. Individual group design projects problems in heat transfer such as electronic packaging, heat exchangers, heat engines, refrigerators, and thermal systems analysis.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

434. Aerodynamics II (3)
Prerequisite: MAE 334.
Compressible flows. Subsonic and supersonic flows around airfoils and wings. Two-dimensional, incompressible boundary layers. Introduction to computational fluid dynamics (CFD). Aerodynamic design considerations. Projects are assigned and written reports are required.
(Lecture-problems 3 hours) Letter grade only (A-F).

435/.535. Computational Fluid Dynamics I (3)
Prerequisites: MATH 370A, MAE 333.
Numerical methods for elliptic, parabolic, and hyperbolic equations, finite difference and volume methods, analysis of consistency, stability, and convergence, panel method, modeling and computation of boundary layer flows. Full potential equation, grid generation, application to inviscid and viscous subsonic, transonic/ supersonic flows.
(Lecture-Problems 3 hours) Letter grade only (A-F).

438/.538. Heating, Ventilating, Air Conditioning, and Refrigeration (3)
Prerequisites: MAE 330, CE 335.
Basic HVAC system calculations. Thermodynamics and psychrometrics. Design conditions and load estimating, residential and non-residential heating and cooling load calculations, energy estimating methods, duct and pipe sizing, and life cycle costs.
(Lecture-Problems 3 hours) Letter grade only (A-F).

440. Aerodynamics Laboratory (1)
Prerequisites: MAE 300 and 334.
Experimental techniques in aerodynamics, wind tunnel measurements, use of Pitot tube, hot wire and Laser Doppler Velocimetry systems, flow visualization techniques, calibration of transducers. Computer controlled data acquisition and analysis. Projects are assigned and written reports and oral presentations are required.
Letter grade only (A-F). (Laboratory 3 hours)

451/.551. Aircraft Preliminary Design and Performance (3)
Prerequisite: Consent of instructor.
Complete aircraft preliminary design, including mission definition, specifications, and regulations. Preliminary layout weight and weight empty for a mission. Aircraft geometric characteristics are developed. Detailed aerodynamic data are estimated and used to calculate aircraft performance. Individual projects required for MAE 551.
The design project is conducted in teams for MAE 451 and individually for MAE 551. (Lecture-Design Project 3 hours) Letter grade only (A-F).

452. Propulsion (3)
Prerequisites: MAE 330, 434.
(Lecture-problems 3 hours) Letter grade only (A-F).

453/.553. Stability and Control of Aerospace Vehicles (3)
Prerequisite: MAE 350 or equivalent.
Additional Projects required for MAE 553. (Lecture-problems 3 hours) Letter grade only (A-F).
454/554. Avionics Systems (3)
Prerequisite: MAE 453.
Avionics systems requirements definition and design. Systems used for guidance and navigation. Components of avionics systems (software, integrated circuits, devices, etc.). Integration of optics and electronics. Testing and certification.
(Lecture-Problems 3 hours) Letter grade only (A-F).

455. Aerospace Manufacturing Laboratory (1)
Prerequisite: Senior standing.
A design project in given and students are required to complete the design taking into account the manufacturing equipment, control and systems available.
(Laboratory 3 hours) Letter grade only (A-F).

456. Production Methods for Aerospace Manufacturing (3)
Prerequisite: Consent of instructor.
Survey of production processes, sequence of operations, equipment and facilities, methods, tools, plans and requirements of various aerospace products. Observation of actual aerospace manufacturing activities.
(Lecture Problems 3 hours) Letter grade only (A-F).

457. Lean Manufacturing (3)
Prerequisite: Senior standing.
Fundamentals of Lean Enterprise. Study of flow to customers and relationship both internal and external to the company. Study of the mechanism of continuous process improvement. Case studies to accomplish value stream analysis and develop a Lean Enterprise improvement plan for the student’s own respective operations.
(Lecture-problems 3 hours) Letter grade only (A-F).

458. World Class Manufacturing Engineering Concepts (3)
Prerequisites: Senior standing in engineering and consent of instructor.
(Lecture-Problems 3 hours) Letter grade only (A-F).

459. Professional Practice Seminar (1)
Prerequisite: Senior standing or consent of instructor.
Professional, social and moral responsibilities of engineers. Examination of ethical and legal issues, including intellectual property and regulatory codes and practices. Students are encouraged to participate in professional societies and attend professional seminars. Licensure is emphasized.
(Lecture-Problems 1 hour) Letter grade only (A-F).

465. Aerospace Structures II (3)
Prerequisite: MAE 365.
(Lecture-problems 3 hours) Letter grade only (A-F).

471. Analysis and Design of Machine Components (3)
Prerequisites: MAE 375 and 376 (or MAE 374).
Application of the principles of mechanics and physical properties of materials to the proportioning of machine elements, including consideration of function, safety, production and economic factors. Group and/or individual design projects of mechanical subsystems and/or subsystems.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

472. Design of Mechanical Engineering Systems (3)
Prerequisites: MAE 330, 373, 375, CE 335. Corequisite: CE 406.
Capstone design course. Design experience includes conceptual design, literature review and analysis. Final designs includes: drawings, manufacturing and assembly of prototypes. Emphasis placed on identifying realistic constraints simulating industrial situations which affect design choices. Teamwork and interaction is encouraged.
(Lecture-Problems 2 hours, Design Laboratory 3 hours) Letter grade only (A-F).

474. Computer–Aided Manufacturing (3)
Prerequisites: MAE 322, 409A.
(Lecture–problems 3 hours) Letter grade only (A-F).

476. Mechanical Control Systems I (3)
Prerequisite: MAE 376.
(Lecture-problems 2 hours, laboratory 3 hours) Letter grade only (A-F).

478. Aerospace System Design I (3)
Prerequisites: MAE 334, 365, and 381. Corequisite: MAE 434, 465, or 481.
A capstone design experience which integrates aspects of aerospace systems design. Student teams complete a design during the two-semester course sequence. In the first semester, the teams define the requirements and then work through the complete design in the second semester (MAE 479). Letter grade only (A-F). (Lecture-Design Project 2 hours, Laboratory 3 hours)

479. Aerospace Systems Design II (3)
Prerequisite: MAE 478.
Continuation of Aerospace System Design I (MAE 478). The project assigned in teams in MAE 478 are completed. Manufacturing is included when appropriate. Regular design reviews (oral presentations and written reports) are essential components in grading.
(Lecture-Design Project 1 hour, Laboratory 3 hours) Letter grade only (A-F).

481. Space Systems Engineering (3)
Prerequisite: MAE 231.
Systems engineering approach to spacecraft design. Spacecraft systems engineering and spacecraft power subsystem. Radiative and conductive heat transfer. Thermal control subsystems, telecommunications. Command and data handling. Team projects including spacecraft subsystem design are assigned. Written reports and oral presentations are required.
(Lecture-Problems 3 hours) Letter grade only (A-F).

483. Space Flight and Orbital Mechanics (3)
Prerequisites: MATH 370A, MAE 371.
(Lecture-problems 3 hours). Letter grade only (A-F).
490. Special Topics (3)
Prerequisite: Senior standing in engineering and consent of instructor.
Selected topics from recent advances in mechanical and aerospace engineering. Content may vary from semester to semester.
May be repeated to a maximum of 6 units with different topics.
(Lecture-problems 3 hours) Letter grade only (A-F).
A. CAD/CAM
Not open for credit to students with credit in ME 405A. Letter grade only (A-F).
B. Robotics Principles
Major components of a robot and robotic applications. Translational, rotational motion and motion conversions. Modeling of mechanical systems and kinematic chains. Physical control elements, forces encountered, and sensors. Software and hardware considerations, including robot programming. Robot design examples.
Not open for credit to students with credit in ME 405B. Letter grade only (A-F).
D. Hybrid Electrical Vehicles System Design
History, technology, and future of hybrid vehicles. Topics discussed include: advanced transportation and electricity/hybrid vehicles. Design projects involve testing, manufacturing, and modeling of various components for hybrid vehicles. Effects of aerodynamic forces, ergonomics and economics on overall design of the vehicle are investigated.
Not open for credit to students with credit in ME 405D. Letter grade only (A-F).
E. HVAC Systems Design and Equipment
Prerequisites: ME 330, CE 335.
Design of air conditioning systems, the design process, occupant comfort, load calculations, components and control, all air systems, and water systems, and all water systems.
Not open for credit to students with credit in ME 405E. Letter grade only (A-F).
G. Mechatronics
Prerequisites: EE 211, MATH 370A, and MAE 300. Upper-Division standing or consent of instructor.
This lab based course introduces students to the basic elements of modern mechatronic systems which integrate mechanism, electronics, and computer control to achieve a functional system. Topics covered include: basic electronic components, motors, microcontrollers, D/A and A/D conversion, and motor control.
(Lecture-problems 3 hours) Letter grade only (A-F).
491. Special Problems (1-3)
Prerequisite: Senior standing.
Assigned topics in technical literature or laboratory projects and reports on same.
Letter grade only (A-F).
495/595. Rapid Product Development (3)
Prerequisites: MAE 490A, 490B.
Rapid product development using solid modeling. Simplified finite element analysis and optimization of different design proposals. Quality control process via a 3-D scanner and data acquisition software. Product readiness for casting, mold flow analysis or machining via CAM.
(Lecture-problems 3 hours) Letter grade only (A-F).

501. Engineering Analysis I (3)
Prerequisite: MATH 370A.
(Lecture-problems 3 hours) Letter grade only (A-F).
502. Engineering Analysis II (3)
Prerequisite: MAE 501.
Linear algebra, matrix computations, systems of differential equations, eigenvalue problems, iterative solution of systems of algebraic equations, numerical methods for ordinary and partial differential equations, systems of nonlinear equations, optimization.
(Lecture-problems 3 hours) Letter grade only (A-F).
505. Quantitative Methods for Engineering Managers (3)
Prerequisite: MAE 501 or 502 or equivalent.
Concepts and methods using quantitative approaches in engineering management decision making. Computer based tools used in management decision making for subjective approaches. Probabilistic methods, forms of linear program models, network analysis, dynamic programming, Monte Carlo simulation and queuing models. Methods formulating problems are emphasized.
(Lecture-problems 3 hours) Letter grade only (A-F).
506. Management of Engineering Technology and Innovation (3)
Prerequisite: Graduate engineering standing.
Analysis of the principles and theory of engineering administrative organizations, information systems, management functions, decision making tools, strategies, and administrative policy formulation.
(Lecture-problems 3 hours) Letter grade only (A-F).
507. Engineering Project Management (3)
Prerequisite: Graduate engineering standing.
Theory and philosophies of project management, principles of internal and industrial organization planning and control systems, motion in time study, industrial statistics, industrial research as aid to decision making.
(Lecture-problems 3 hours) Letter grade only (A-F).
508/408. Systems Engineering and Integration (3)
Prerequisite: Senior standing or consent of instructor.
Tools and methods employed by systems engineers in aerospace industry. Development of system functions, requirements, verification and validation, and interfaces in context of integrated product teams and the product life cycle. Trade studies and risk management. Projects assigned, written reports and oral presentations are required.
Additional projects required for MAE 508. (Lecture-Problems 3 hours) Letter grade only (A-F).
512/612. Computer Aided Design in Mechanical Engineering (3)
Prerequisites: MAE 490A, 501, 502. (Master's students register in MAE 512 or 612. Ph.D. students register in MAE 612.)
Computer graphics in CAD/CAM. Includes geometrical transformations, viewing in three dimensions, modeling and object hierarchy, representation of 3D shapes, shading models and imaging databases and data transfer.
(Lecture-problems 3 hours) Letter grade only (A-F).
521. Engineering Metallurgy II (3)
Prerequisite: MAE 322.
Properties and uses of structural steels; heat treatable steels; titanium alloys; nickel and cobalt base alloys; refractory metals; ultra high-strength steels; stainless steels; and metal matrix composite materials. Designing for fracture resistance.
(Lecture-Problems 3 hours) Letter grade only (A-F).

522.4422. Composite Materials (3)
Prerequisite: MAE 375
(Lecture-Problems 3 hours) Letter grade only (A-F).

527. Metals and Plastics Manufacturing Processes (3)
Prerequisite: MAE 322.
Theory of metal forming and plastics processing. Includes metal forging and rolling, metal and plastics extrusion, plastics injection molding, casting. Discussion of appropriate manufucturing methods.
(Lecture-Problems 3 hours) Letter grade only (A-F).

529. Structural Analysis of Composite Laminates (3)
Prerequisite: MAE 522 or consent of instructor.
Bending, vibration and buckling analysis of composite laminates. Shells of composite materials. Joining of composite material structures.
(Lecture-Problems 3 hours) Letter grade only (A-F).

531. Advanced Heat Transfer (3)
Prerequisites: MAE 431, 501
Advanced topics in conduction and convection heat transfer, analytical and numerical solutions to multidimensional heat conduction equations in various geometries. Solutions to laminar and turbulent convection heat transfer problems. External and internal flows, free and forced convection, and mass transfer from external surfaces. Applications in thermal systems design.
(Lecture-Problems 3 hours) Letter grade only (A-F).

532. Combustion I (3)
Prerequisite: MAE 336, 431.
Fundamentals of combustion engineering: fuels; chemical thermodynamics and chemical kinetics; premixed and diffusion flames; ignition and extinction; Hugoniot curve; flammability and explosion limits; pollutant formation and control; applications in spark-, and charged-ignition internal combustion engines; gas-fired and oil-fired furnaces.
(Lecture-Problems 3 hours) Letter grade only (A-F).

533. Gas Dynamics (3)
Prerequisite: MAE 333 or equivalent. Isentropic flow, normal and oblique shocks, Prandtl-Meyer flow, shock expansion theory, method of characteristics, nozzle flow, flow in ducts with friction and heat transfer, solutions of linearized potential equation with applications, slender body theory, similarity rules, transonic flow, shock wave/ boundary layer interactions.
(Lecture-Problems 3 hours) Letter grade only (A-F).

535.4435. Computational Fluid Dynamics I (3)
Prerequisites: MATH 570A, MAE 333.
Numerical methods for elliptic, parabolic, and hyperbolic equations, finite difference and finite volume methods, analysis of consistency, stability and convergence, penal method, modeling and computation of boundary layer flows, etc.
Additional projects will be required for MAE 535.
(Lecture-Problems 3 hours) Letter grade only (A-F).

537. Advanced Fluid Dynamics I (3)
Prerequisites: CE 335, MAE 431.
Dynamics of ideal, real and compressible flows, potential flow, vortex flow, the Navier-Stokes equations, integral and differential equations for laminar flow, exact solutions for laminar flow, steady and unsteady compressible flows.
(Lecture-Problems 3 hours) Letter grade only (A-F).

538.4438. Heating, Ventilating, Air Conditioning, and Refrigeration (3)
Prerequisites: MAE 330, CE 335
Basic HVAC system calculations. Thermodynamics and psychrometrics, design conditions and load estimating, residential and non-residential heating and cooling load calculations, energy estimating methods, duct and pipe sizing, and life cycle costs.
Additional projects required for MAE 538.
(Lecture-Problems 3 hours) Letter grade only (A-F).

551. Aircraft Preliminary Design and Performance (3)
Prerequisite: Consent of instructor.
Complete aircraft preliminary design, including mission definition, specifications and regulations. Preliminary takeoff weight and weights empty for a specific mission. Aircraft geometric characteristics are developed. Detailed aerodynamic data are estimated and used to calculate aircraft performance. The design project is conducted in teams for MAE 451 and individually for MAE 551.
(Lecture Design Project 3 hours) Letter grade only (A-F).

553.4453. Stability and Control of Aerospace Vehicles (3)
Prerequisite: MAE 350 or equivalent.
(Lecture-Problems 3 hours) Letter grade only (A-F).

554.4454. Avionics Systems (3)
Prerequisite: MAE 555.
Avionics systems requirements definition and design. Systems used for guidance and navigation. Components of avionics systems (software, integrated circuits, devices, etc.). Integration of optics and electronics. Testing and certification.
(Lecture-Problems 3 hours) Letter grade only (A-F).

563. Linear Finite Element Analysis (3)
Prerequisite: MAE 460A.
Finite element (FE) forms of differential equations. Isoparametric concepts. Dynamic response of damped elastic structures, modal and direct integration analysis. Automatic mesh generation via solid modeling using IDEAS, automatic adaptation to popular software such as: SINDA, NASTRAN, ANSYS, and ABAQUS. FE fluid flow and heat transfer analysis.
(Lecture-Problems 3 hours) Letter grade only (A-F).

565. Advanced Aerospace Structures (3)
Prerequisite: MAE 465 or consent of instructor.
Application of energy principles and finite element method to aerospace structural components, plates and shells without stiffeners, structural dynamics, material and geometric nonlinear problems. FEA for composite structures, application to simple wings, finite element modeling techniques, application of finite element computer programs.
(Lecture-Problems 3 hours) Letter grade only (A-F).
567. Advanced Mechanics of Deformable Bodies (3)
Prerequisites: MAE 373, 374, 471 or consent of instructor.
Analysis of stress and deflection in unsymmetrical bending, shear center for beams, curved beams. Stress concentration, deformation beyond the elastic limit. Energy methods, Castigliano's Theorem, Rayleigh-Ritz technique.
(Lecture-Problems 3 hours) Letter grade only (A-F).

568. Creep and Fatigue (3)
Prerequisites: MAE 322, 373, or consent of instructor.
Phenomena of creep and fatigue, effect on stress distribution in structural elements, buckling caused by creep, effects of space environment on fatigue; cumulative fatigue damage at normal and elevated temperatures.
(Lecture-Problems 3 hours) Letter grade only (A-F).

572. Structural Design Optimization (3)
Prerequisite: MAL 373 or consent of instructor.
Structural optimization using calculus of variations. Method of Lagrange multipliers, unconstrained and constrained optimization, fast rosenroy techniques, sequential approximation optimization, sensitivity calculations of structural response, variational sensitivity analysis, approximation techniques, optimal design of laminated composite materials etc.
(Lecture-Problems 3 hours) Letter grade only (A-F).

573. Modern Control of Dynamic Systems (3)
Prerequisite: MAE 476.
Advanced topics in analysis and design of modern control systems in mechanical engineering. Topics include state space, Riccati and Liapunov equations, Linear Quadratic Regulator (LQR), Kalman filter, etc. Optimization via calculus of variations, Pontryagin's minimum principle. Control of distributed parameter systems with applications to structural dynamics.
Letter grade only (A-F). (Lecture-problems 3 hours)

574.474. Computer-Aided Manufacturing (3)
Prerequisites: MAE 322, 490A.
(Lecture—problems 3 hours) Letter grade only (A-F).

576. Engineering Vibrations (3)
Prerequisite: MAE 376.
(Lecture—problems 3 hours) Letter grade only (A-F).

578. Haptic Systems for Virtual Reality and Teleoperation
Prerequisites: MAE 501, MAE 376 or 490B and 475 or equivalent.
The course introduces haptic systems, which involve virtual and teleoperated environments that are displayed through force and/or tactile feedback. Topics covered include: human haptic sensing and control, design of haptic interfaces, teleoperation, modelling of virtual environments, control and stability issues.
(Lecture—Problems 3 hours) Letter grade only (A-F).

579. Engineering Acoustics (3)
Prerequisites: MAE 376, 502.
Theory and application of acoustical principles to generation, transmission, measurement and control of sound.
(Lecture—Problems 3 hours) Letter grade only (A-F).

581. Space Vehicle Design (3)
Prerequisite: Graduate engineering standing or consent of instructor.
Space environments and their impact on spacecraft design. Space mission design. Payloads and communications. Integration of attitude determination and control, thermal, propulsion, configuration, telemetry, power, structures, and data handling subsystems.
(Lecture—Problems 3 hours) Letter grade only (A-F).

582. Rocket and Spacecraft Propulsion (3)
Prerequisite: Graduate engineering standing or consent of instructor.
(Lecture—Problems 3 hours) Letter grade only (A-F).

583. Astrodynamics (3)
Prerequisite: MAE 502.
(Lecture—problems 3 hours) Letter grade only (A-F).

585. Spacecraft Attitude Determination and Control (3)
Prerequisite: MAL 371 or equivalent. Rigid body dynamics. Control systems. Spacecraft attitude dynamics and control. Stabilization methods and maneuvers. Impact of flexible structures.
(Lecture—Problems 3 hours) Letter grade only (A-F).

590.490. Advanced Topics in Mechanical and Aerospace Engineering (3)
Prerequisite: Graduate engineering standing or consent of instructor.
Selected topics from recent advances in mechanical engineering. Course content will vary from year to year. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.
(Lecture—problems 3 hours) Letter grade only (A-F).

595.495. Rapid Product Development (3)
Prerequisite: MAE 490A.
Creating different design proposals for a specified period. Manufacturing design models via rapid prototyping. Simplified finite element analysis and optimization of different design proposals. Quality control process via a 3-D scanner and data acquisition software. Product readiness for casting, mold flow analysis. Additional projects required from M.S. students.
(Lecture—problems 3 hours) Letter grade only (A-F).
612/512. Computer Aided Design in Mechanical Engineering (3)
Prerequisites: MAE 490A, 501, 592. (Master’s students register in MAE 512 or 612; Ph.D. students register in MAE 612).
Computer graphics in CAD/CAM. Includes: solid modeling, CAD/CAM systems, visualization, 3D modeling, and computer database management. Additional topics include design and modeling of products, product manufacturing processes, and computer-aided design in manufacturing. (Lectures: 3 hours) Letter grade only (A-F).

635/735. Computational Fluid Dynamics II (3)
Prerequisite: MAE 535.
Computational methods for solving Euler and Navier Stokes equations, implicit and explicit schemes, unstructured grids, artificial diffusion, multi-grid techniques, and convergence acceleration. Application to inviscid and viscous subsonic, transonic, and supersonic flows. Inverse problems and aerodynamic shape optimization. (Lectures: 3 hours) Letter grade only (A-F).

637. Advanced Fluid Dynamics II (3)
Prerequisites: MAE 431, 501, 537.
Transition to turbulent flow, wall bounded and free turbulent shear flows, numerical methods for turbulent flow, turbulence modeling. (Lectures: 3 hours) Letter grade only (A-F).

663/763. Nonlinear Optimized Structures (3)
Prerequisite: MAE 562, consent of instructor. (Master’s students register in MAE 663, Ph.D. students register in MAE 763.)
Analysis, optimization of frame with automatic mesh generation using I-DEAS, with popular software such as: STRUDL, NASTRAN etc. Generation, localization and optimization of complex structures. Sensitivity, buckling analysis etc. Required topics for Ph.D. students: advanced numerical methods for flutter and random analysis. (Lectures: 3 hours) Letter grade only (A-F).

683. Design of Composite Structures (3)
Prerequisite: MAE 522 or consent of instructor.

672. Stress Analysis in Design (3)
Prerequisite: MAE 567 or consent of instructor.

673. Theory of Elasticity and Plasticity (3)
Prerequisite: MAE 567.

678. Robust Control (3)
Prerequisites: MAE 476 (or an equivalent undergraduate course in classical control systems and state-space design methods), MAE 592 (or an equivalent course in linear algebra and matrix theory). Experience in basic programming and MATLAB are highly recommended.
The course introduces robust analysis and design for multivariable feedback control systems with uncertain dynamics or unknown parameters. Topics include: uncertainty modeling; robust stability; robust performance; mu synthesis; H-infinity control; and applications of linear matrix inequalities. (Lectures: 3 hours) Letter grade only (A-F).

690/790. Advanced Topics in Mechanical and Aerospace Engineering (3)
Prerequisite: Graduate engineering standing or consent of instructor.
Selected topics from recent advances in mechanical engineering. Course content will vary from year to year. Topics will be announced in the Schedule of Classes. Additional projects required for MAE 690. May be repeated for a maximum of 6 units with different topics. (Lectures: 3 hours) Letter grade only (A-F).

691. Directed Studies (1-3)
Study of information in mechanical and aerospace engineering research. (Lectures: 3 hours) Letter grade only (A-F).

697. Directed Research (1-6)
Prerequisite: Graduate standing in Mechanical and Aerospace Engineering.
Theoretical and experimental problems in mechanical and aerospace engineering requiring extensive research and analysis. Advanced research problem. Supervised by a faculty member. (Lectures: 6 hours) Letter grade only (A-F).

735/835. Computational Fluid Dynamics II (3)
Prerequisite: MAE 535.
Methods for solving Euler and Navier Stokes equations, implicit and explicit schemes, variable mesh generation and artificial diffusion, multi-grid techniques, and convergence acceleration. Unstructured grid techniques, turbulence modeling, application to inviscid and viscous subsonic, transonic, and supersonic flows. Additional topics required for MAE 735. (Lectures: 3 hours) Letter grade only (A-F).

763/863. Nonlinear Optimized Structures (3)
Prerequisite: MAE 567.
Analysis, optimization of frame with automatic mesh generation using I-DEAS, with popular software such as: STRUDL, NASTRAN etc. Generation, localization and optimization of complex structures. Sensitivity, buckling analysis etc. Required topics for Ph.D. students: advanced numerical methods for flutter and random analysis. (Lectures: 3 hours) Letter grade only (A-F).

795. Advanced Directed Studies (4)
Prerequisite: MS or equivalent and formally admitted to the Ph.D. program in Engineering and Industrial Applied Mathematics. Advanced research problem. Supervised by a faculty member. (Lectures: 4 hours) Letter grade only (A-F).

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797. Advanced Directed Research (4)
Prerequisite: MS or equivalent and formally admitted to the Ph.D. program in Engineering and Industrial Applied Mathematics. Exploration of theoretical and experimental (if applicable) engineering problems in greater depth with emphasis on mathematical modeling and analysis. Students must present the findings in a formal report and a seminar. May be repeated to a maximum of 8 units. Letter grade only (A-F).

799. Doctoral Dissertation (4-12)
Prerequisite: Enrollment is limited to students formally admitted to the Ph.D. program in Engineering and Industrial Applied Mathematics who have passed the preliminary examinations and research tool tests on completion of at least 45 units of coursework. A written dissertation proposal containing an outline of the research to be undertaken and references to relevant source material must be submitted. Only upon a positive recommendation may a student embark on a dissertation. Minimum of 4 units per semester. Letter grade only (A-F).

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MEDIEVAL AND RENAISSANCE STUDIES
College of Liberal Arts

Directors: Lloyd E. Kenmoeke, Martine van Elk
Telephone: (562) 985-4212 or (562) 985-4222

Program Office: Mocenig Humanities Building (MHB), Room 512

Faculty: Dorothy Abrahamsson (History), Conard Bartholomew (Religion), Celine Beatti (Music), Claire Beattie (German, Russian Languages and Literatures), Alice M. Boyle (Music), Stephen Fleck (Romance, German, Russian Languages and Literatures), Kristina K. Forney (Music), Irene Gaster (Romanes, German, Russian Languages and Literatures), Cheryl Goldstein (Comparative World Literature), Stanley Jones (Religious Studies), Timothy Keim (History), Marie Keller (History), Lloyd E. Kenmoeke (English), Ellen Klink (English); Julia Miller (Art), Lawrence Nolan (Philosophy), Nikha Lucia Serrano (Comparative World Literature), Martine van Elk (English), Lisa Vollendorf (Romanes, German, Russian Languages and Literatures)

Introduction
The Center for Medieval and Renaissance Studies sponsors activities that explore the complex culture of the Middle Ages and the Renaissance. It sponsors a regular lecture series featuring speakers from on and off campus. Occasionally, special seminars are held to commemorate a person, place, or event of significance from these periods; recent topics have included Richard III, Florence and Rome 1200-1600. The Sensual Culture of Venice, 1006 And After Thal, and La Fiaccesima Armada. The Center also sponsors courses on a wide range of medieval and Renaissance issues, supports faculty research both here and abroad, and is associated with most of the local and national societies relevant to research in these fields.

The Center has established an interdisciplinary program which offers students interested in these periods the opportunity to pursue a course of study leading to a Certificate in Medieval and Renaissance Studies. Courses which are used to meet the certificate requirements may be counted, where applicable, toward the General Education requirements, the major, and minor requirements.

Interested students should apply to directors or members of the supporting faculty for further information.

Minor in Medieval and Renaissance Studies (code HISUM04)

The Minor offers students majoring in any subject an opportunity to supplement their education with a focus on the interdisciplinary study of the Middle Ages and the Renaissance. The Minor's flexible program of study is ideal for students interested either in intellectual enrichment or professional development in their major. Interested students should contact the program's advisor prior to or during the first semester of taking classes towards the Minor.

The Minor consists of a minimum of 21 units selected in consultation with the program advisor in addition to demonstrated competence in a foreign language appropriate to the area of concentration. The 21 required units include: 12 units of core classes in History, Literature, and Art History, along with 9 electives chosen from the courses in those disciplines as well as from Music, Political Science, Philosophy, Religious Studies, RGLL, and Theatre.

Requirements
1. Six units from the following courses: HIST 316, 317, 322, 333.
2. Three units of an upper-division course in Literature: CWL 330A, 349†, 414, 420, 430, 431, 432, 440†; ENGL 369, 393, 393, 451, 452, 453, 461, 462, 463, 466, 469†, 489†, FREN 335, 470, 471, 472, 490†; GERM 389†, 415, 489†; GK 409†; ITAL 335, 414, 473, 490†; LAT 490†; SPAN 330†, 400, 438, 448†, 450, 490†, 493†;
3. Three units of an upper-division course in Art History: AH 408, 409, 410, 423, 424, 425, 426, 427, 490†, 498†;
4. Nine additional units from the courses listed above (without repeating the required core) and the following: AH 470A, 470B, HIST 316, 319, 334, 335, 331, 333, 351, 353, 408, 410, 431, 443, 450†, 493†; MUS 360, 400R, 409R, 410R; PHIL 413, 490†; POSC 360, 497†; RGR 450†; RIV 314, 331, 338, 471, 472, 490†; THEA 321, 490†.

Certificate in Medieval and Renaissance Studies (code CLSCT01)

Requirements
1. A bachelor's degree with an approved major. (Certificate may be completed prior to the completion of the B.A. requirement or while in the process of working toward an advanced degree).
2. Consultation and approval of the program with a faculty advisor.
3. Intermediate level language proficiency on the college level, including a course in medieval or Renaissance literature of the language. It is expected that the language will be Anglo-Saxon, French, German, Greek, Itallian, Latin, or Spanish, but with consent of the advisor another language may be substituted.
4. Twenty-four units selected from the following courses. Students should elect to concentrate in either the medieval or Renaissance period.
   A. Required courses (12 units): one of the following sequences for six units: HIST 316 and 317, 317 and 332, or 332 and 333. One of the following literature courses for three units: CWL 330A, 431, 432, 531, 532; ENGL 451, 452, 453, 552, 553, 554. One of the following Art History courses for three units: AH 408, 409, 410, 423, 424, 425, 426, 427, 508, 509, 510, 523, 524, 525, 526, 527.
C. Three units of directed research on a medieval or Renaissance topic in any of the following courses: AH 495, 496, CULT 499, ENGL 499, FREN 499, GERM 499, GK 499, HIST 498, ITAL 490, LAT 490, MUS 490, PHIL 499, POLS 499, RST 499, SPAN 499, THEA 498. Graduate courses: AH 555, 596, ENGL 596, 697, FREN 697, GERM 596, 697, HIST 685, 697, PHIL 697, POLS 599, 697, RST 697, SPAN 599, THEA 694.

†With an approved medieval or Renaissance topic; certain special studies topics may be repeated for credit with approval.
Military Science
College of Health and Human Services

Program Director: Major Victor Stephenson
Program Office: HSB 108
Faculty: Captain Toby Humphries, MSG Daniel Johnson
Website: www.csulb.edu/org/armyrotc

Career Possibilities
United States Army Officer, part-time or full-time, with possible career fields in
• Aviation • Armor • Nurse Corps • Engineer • Finance • Military Intelligence • Infantry • Ordnance • Medical • Air
  Defense • Quartermaster • Field Artillery • Chemical • Signal • Transportation (Some of these, and other careers,
  require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Army Reserve Officers Training Corps (Army ROTC) program offers leadership and management training to
CSULB students. This dynamic four-year program of instruction develops the mental and physical abilities of
students in preparation for positions of leadership with the military and civilian communities. Students
may enroll for academic elective credit without incurring any military service obligation. The curriculum includes
military leadership and management courses; courses which provide an awareness of the heritage of the U.S.
Military; the Armed Forces' role in national defense; professional military subjects; and military
ethics. The program is oriented towards preparing the student for a military career. Students desiring to attain a
highly sought-after commission as a Second Lieutenant in the U.S. Army must meet eligibility requirements and
complete the Military Science/Army ROTC (Reserve Officer Training Corps) Advanced Course. To be eligible for the
Commissioning Program, a student must be enrolled full time (12 units) at CSULB, have at least one and a half years
remaining as a university student, be physically qualified, complete the advanced course and graduate prior to
reaching their 21st birthday.

Financial Assistance
Many opportunities for financial assistance are available to students. Three areas of opportunities are: ROTC cadets
who sign a contract for Advanced Phase, students who earn an ROTC scholarship, and cadets who train with Reserve
or National Guard units. ROTC cadets who sign a contract to participate in ROTC receive a $300 - $500 a month
allowance. Highly competitive two-, three-, and four-year ROTC scholarships are also available. The scholarship
provides payment of full tuition, room and board, books and supplies in addition the $300 - $500 a month allowance for
the duration of the scholarship. Scholarship recipients can also elect to have their room and board costs paid (up to
$10,000), rather than a tuition payment. Students interested in scholarship competition should contact the Military
Science Program at the time of application to the university. Reserve or National Guard training provides two additional

sources of financial assistance: approximately $150 a month for one weekend drill and approximately $145 a month tuition
assistance from the Army Reserve or National Guard "Now GI Bill" benefits.

Equipment and Uniforms
All necessary equipment, uniforms and textbooks for participation in the Military Science/ROTC program are
furnished to the student by the United States Government free of charge. Title to this property, other than expendable items,
remains with the government. Students entering into active commissioned service after graduation are granted a special
$200 uniform allowance.

Four-Year Program
The four-year program curriculum is divided into two parts. The Basic Course is primarily for freshmen and sophomores,
and the Advanced Course is for junior and senior level students. In special cases, the Advanced Course is available to
students working towards graduate degrees.

Basic Course
The Basic Course is a one to two-year period where students may, without obligation, investigate the ROTC Program and
the military as a full- or part-time career. Students may enter and leave during any semester. The curriculum for the Basic Course is consists of the lower division courses listed below. To become an ROTC cadet during the Basic Course requires the student be registered for a Military Science class, completion of an ROTC enrollment form (obtained at the Military Science Department, HSB,
Room 108), and an interview with the ROTC Enrollment Officer. Because this course is for students to examine the
ROTC Program without obligation, participation in ROTC activities is encouraged but not mandatory. Advancement into
the Advanced Course is accomplished either by successfully completing the Basic Course classes, completing ROTC
Summer Basic Camp or completing any military basic training program.

ROTC Leaders Training Course
One method to qualify for the Advanced Course is to successfully complete the challenging 30-day ROTC Summer
Basic Camp. Students normally attend Basic Camp between their second and third academic years. It is important that
potential transfer students who plan to participate in the two-year ROTC program make their intentions known directly
to the Military Science Program no later than May of the year they plan to register at the university even though this
data may precede the date of their final acceptance by the university.

The government will provide a transportation allowance to and from Basic Camp and the student will also receive approximately $600 during the 30 days. All equipment, uniforms, room and medical care are furnished free while
at camp. No military obligation is incurred as a result of attendance. It is recommended though that the student be
committed to pursuing a career in the military either in an active or reserve capacity.
Basic Training

Outstanding students who have successfully served on active duty, regardless of the branch of service, are qualified to enter the Advanced Course. Also, students who have been, or are members of Reserve or National Guard units and have completed basic training are qualified for the Advanced Course. Students may be required to take certain lower division classes even after enrollment in the Advanced Course.

Leader Development/Assessment Course

The Advanced Course is a two-year period where ROTC cadets receive advanced leadership and management training. The cadets receive many hours of hands-on, practical leadership experiences to prepare them for a military career or a management position in the civilian sector. To become a cadet in the Advanced Course a student must complete the Basic Course, or ROTC Summer Basic Camp, or Basic Training. The cadet must also make a commitment to attend all required training activities and sign a contract to accept a commission in the United States Army. In return for the student’s commitment, the Military Science Department will provide $350 - $500 a month, classroom instruction, real leadership opportunities, and continuous feedback on each cadet’s leadership progress.

A 32-day summer training camp, between the two years of the Advanced Course, will be provided for assessing and developing each cadet’s leadership abilities. All equipment, uniforms, room, board, and medical care are furnished free while at this camp. The cadets will also receive pay at the rate of one-half of Second Lieutenant’s basic pay. Upon successful completion of the Advanced Course and graduation from the university, the cadet will be eligible to be commissioned as a Second Lieutenant in the United States Army.

Required Related General Education Subjects

1. Written Communications: (Category A) ENGL 100
2. Human Behavior: (Category D) POSC 100
3. Computer Literacy
4. Mathematical Reasoning: (Category B) MATH 103 or 110

Courses (MS)

LOWER DIVISION
(Open to all University students)

101. Foundations of Officiership (1)
Introduction to issues and competencies that is central to a commissioned officer’s responsibilities, including: the Army Profession; personal development; physical well-being; leadership; values and ethics.

ROTC cadets who sign up for this course must also register for MS 101L. Letter grade only (A-F).

101L. Leadership Laboratory (1)
Prerequisite: Accepted as a cadet in the Army ROTC Program; Corequisite: MS 101.
Assists students in transition from a civilian into a cadet. Exposure to Army values and selected military skills. Introduction to Army leadership techniques through basic leadership experiences and assessment.
Credit/No Credit grading only.

102. Basic Leadership (1)
Prerequisite: Corequisite: MS 101 or consent of instructor. Expands upon topics introduced in MS 101 by focusing on communications, leadership, and problem solving. Course also includes information about the organization of the Army, employment benefits, and work experience of Junior Officers. ROTC cadets who register for this course must also register for MS 102L. Letter grade only (A-F).

102L. Leadership Laboratory (1)
Prerequisite: Accepted as a cadet in the Army ROTC Program; Corequisite: MS 102.
Credit/No Credit grading only. (Activity 2 hours.)

201. Individual Leadership Studies (2)
Prerequisite: MS 101, 102 or concurrent enrollment in MS 102. Using principles of action, experiential and discovery learning, students face challenging physical and mental tasks, including: personal development, goal setting, communication, problem solving, decision making, leadership, teamwork, group processes, stress management, physical fitness and application of lessons to officerhip. ROTC cadets who register for this course must also register for MS 201L. Letter grade only (A-F).

201L. Leadership Laboratory (2)
Prerequisite: Accepted as a cadet in the Army ROTC Program; Corequisite: MS 201. Credit/No Credit grading only. (Activity 4 hours.)

202. Leadership and Teamwork (2)
Prerequisite: MS 201 or consent of instructor. Continuation of MS 201. Continues to employ the principles of action, experiential, and discovery learning. ROTC cadets who register for this course must also register for MS 202L. Letter grade only (A-F).

202L. Leadership Laboratory (2)
Prerequisite: Accepted as a cadet in the Army ROTC Program; Corequisite: MS 202.
Credit/No Credit grading only. (Activity 4 hours.)

UPPER DIVISION

301. Leadership and Problem Solving (3)
Prerequisite: MS 202 and consent of instructor. Enables students with no prior military or cadet experience to learn essential cadet knowledge and skills necessary for the integration into the cadre battalion and successful performance of key cadet tasks. Students are introduced to the Leadership Development Program.

ROTC cadets who register for this course must also register for laboratory in MS 301L. Letter grade only (A-F).

301L. Leadership Laboratory (1)
Prerequisite: Accepted as a cadet in the Army ROTC Program; Corequisite: MS 301.
Serves in leadership positions in the military chain of command at squad, platoon, and company levels. Develop and execute unit plans and orders, train other students in basic skill building, teamwork, execute small unit tactics, and prepare for Leadership Development and Assessment Course.
Credit/No Credit grading only.

302. Leadership and Ethics (3)
Prerequisite: MS 301 and consent of instructor. Continues the development of students as leaders in foundational areas of leadership, interpersonal communications, values and ethics. ROTC cadets who register for this course must also register for laboratory in MS 302L. Letter grade only (A-F).
302L. Leadership Laboratory (1)
Prerequisite: Accepted as a cadet in the Army ROTC Program;
Corequisite: MS 302.
Students serve in leadership positions in military chain of
command at squad, platoon and company levels. Develop and
execute unit plans and orders; train other students in basic skill
building, teamwork, execute small unit tactics, and prepare for the
Leadership Development and Assessment Course training and
evaluation.
Credit/No Credit grading only.

401. Leadership and Management (3)
Prerequisites: MS 302 and consent of instructor.
Begin the final transition from cadet to lieutenant. Focus on the
Army’s training management system, coordinating activities with
staff, and counseling skills.
ROTC cadets who register for this course must also register for
MS 401L. Letter grade only (A-F).

401L. Leadership Laboratory (2)
Prerequisite: Accepted as a cadet in the Army ROTC Program;
Corequisite: MS 402.
Credit/No Credit grading only. May be repeated to a maximum of 4
units. (Activity 4 hours.)

402. Officership (3)
Prerequisites: MS 302 and consent of instructor.
Complete the transition from cadet to Lieutenant. Examine unit ethical
climate and commander’s role as moral anchor of unit. Topics
include military law and leadership, Army organization, tactical and
strategic operations, administrative and logistical management.
Includes Leadership Development and Assessment Course
Capstone Exercise.
ROTC cadets who register for this course must also register for
MS 402L. Letter grade only (A-F).

402L. Leadership Laboratory (2)
Prerequisite: Accepted as a cadet in the Army ROTC Program;
Corequisite: MS 402.
Credit/No Credit grading only. May be repeated to a maximum of 4
units. (Activity 4 hours.)

411. U.S. Military History (3)
Evolution of the art of war with emphasis placed on the changing
natures of warfare as nations adjust to social, political, economic
and technological developments.
ROTC cadets who register for this course must also register for
MS 401L or 402L. Letter grade only (A-F).

497. Independent Studies (1-3)
Prerequisites: Consent of Program Director and prior approval of
topic.
Individual studies with faculty supervision in an area of Military
Science specialization.
Letter grade only (A-F). Limited to a maximum of 3 units per
semester. May be repeated to a maximum of 6 units.
MUSIC

BOB COLE CONSERVATORY OF MUSIC
College of the Arts

Director: John A. Carnahan
Conservatory Office: University Music Center (UMC), Room C306
Telephone: (562) 985-4781
Website: www.csulb.edu/music


Advisors:
Undergraduate: Leland Veil
Graduate Advisor: Leland Veil
Credentialed Advisor: Deborah Mitchell

Applied Music:
Contact the Bob Cole Conservatory of Music for a complete list of applied faculty or visit the conservatory's website at www.csulb.edu/music

Administrative Coordinator: Debi Scroggins

Students desiring information should contact the conservatory office for referral to one of the faculty advisors: Undergraduate Advisor, Music Education (credential) Advisor or Graduate Advisor.

Career Possibilities
Performer • Choral Director • Instrumental Conductor • Music Teacher • Music Director • Composer/Arranger • Copyist • Musical Instrument Sales Representative • Music Librarian • Music Critic • Music Editor • Performing Arts Manager (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The undergraduate music curriculum provides programs for the student: who wishes to become a professional musician; who wishes to enter the teaching profession; for whom music is part of a general education; or who is intending to pursue an advanced degree in music.

All entering freshmen and transfer students are required to take a theory placement test and performance audition which are regularly administered in Spring and late Fall and are also available at the beginning of registration week each semester. Each entering student should inquire at the Music Office for dates and details. In addition, new students are required to meet with the advisor prior to registration.

Each music major must declare a specialization in some performance area (voice, piano, or other orchestral instrument), develop ability in this area, appear in student recitals, and demonstrate progress to the satisfaction of the faculty. NOTE: Due to admissions limitations, the conservatory does not provide instruction in acoustic guitar. A limited number of jazz guitar students will be admitted each year.

All undergraduate music majors are required to pass a screening examination in applied music on their primary instrument or voice before advancement to upper division applied study. This Upper Division Screening Exam (UDSE) will cover repertoire that is determined by each applied area. Specific information regarding this test may be obtained in the music office or from the advisor. The exam will be administered at a regular jury after four (4) semesters of applied study, however transfer students may elect to take it earlier. Failure to pass the exam will result in automatic suspension of all music conservatory scholarship aid and continued applied study.

Each student must pass a piano proficiency examination regardless of the performance area (piano majors excepted). Detailed information may be obtained in the Conservatory Office.

Participation in a major performance organization (MUS 100/300) is required of each music major each semester. The performance ensemble must be approved by the conservatory. Undergraduates are also required to register for Music Forum (MUS 11) every semester in residence to a total of 5 units (does not count toward degree) and MUS 210A, 210B.

The Bob Cole Conservatory of Music offers graduate study leading to the Master of Arts or Master of Music degrees. The candidate should arrange for counseling with the graduate advisor through the conservatory office. Special placement examinations or auditions are required to validate qualifications for graduate work in music.

All general requirements of the University must be met in addition to conservatory requirements listed below. California State University, Long Beach is an accredited institutional member of the National Association of Schools of Music (NASM), 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700).

Undergraduate Programs

Bachelor of Arts in Music (code MUS_BA01) (120 units)

A non-performance-focused degree that sets music within the broader context of interdisciplinary studies, diversity, and contemporary thought. This humanistic degree has a basic music core, upper-division elective music units focused on popular, world, and film music as well as art music, an individualized track of non-music elective studies that focuses in at least two other disciplines (one major area and one or more minor areas), and a final research project culminating in a comprehensive senior paper.

Audition required prior to entrance for majors to assess performance standard. All applicants to the program must...
meet with the BA advisor prior to, or at the beginning of, the first semester of residence to review the statement of purpose and to draw up an individualized study plan.

Requirements
Music Theory: (16 units)
- MUS 142A/B Harmony I, II (3/3)
- MUS 141A/B Music Analysis I, II (2/2)
- MUS 341 Form and Analysis (3)
Select one course from:
- MUS 372A Jazz Theory I (2)
- MUS 342 Materials of Modern Music (3)
Music History/Literature (18 units, 6 double-counted in GE)
- *MUS 100 The Listener's Approach (3)
- MUS 290 Popular Music in America (3)
- *MUS 490 Music Cultures of the World (3)
Select three courses from:
- MUS 160 Baroque/Classical Music (3)
- MUS 300 Medieval/Renaissance Music (3)
- MUS 374 19th-20th-Century Music (3)
- MUS 363I Music and the Visual Arts (3)
- MUS 364I Music and the Temporal Arts (3)
Performance Ensembles: 6 units required
- MUS 100, 200, 201 and/or 300, 400, 401 (ensemble must meet Conservatory approval)
Applied Music: 6 units required
- MUS 129/329 or X129/329 and completion of Upper-Division Screening Exam (UDSE)

Piano Proficiency:
Successful completion of the piano proficiency exam (equivalent to MUS 226B)

Music Forum:
- MUS 11 (each semester in residence for total of 5 units)
- MUS 210A Writing About Music (1)
- MUS 210B Basic Music Technology
Music History electives (upper division): select 9 units from:
- MUS 303 Jazz, An American Music (3)
- MUS 468I Music and Film (3)
- MUS 467 Studies in Music and Gender (3)
- MUS 471 Studies in Ethnomusicology (3) (may be repeated once for maximum of 6 units)
- MUS 363I Music and the Visual Arts (3)
- MUS 364I Music and the Temporal Arts (3) (if not taken in Music History 18-unit core)

Interdisciplinary Cultural Studies: 12 units, 6 of which must be upper division
- Select 6 units from one major discipline area and an additional 6 units in one or more areas. These areas can be, but are not limited to:
  - Anthropology, Black Studies, Asian and Asian-American Studies, Comparative World Literature and Classics, Film Studies, Geography, History, International Studies, Journalism, Philosophy, Political Science, Religious Studies, Romance, German, Russian Languages, and Women’s Studies

Final Exit Requirement: 4 units
- MUS 466 Research Methods (3) or D Senior Thesis or Project (1) (requires faculty adviser approval)

Bachelor of Music
The Bachelor of Music degree is a high-unit professional degree and requires 132 units for graduation. Music units include the core requirements and one area of specialization called an option. Options include instrumental music (Music Education), Choral-Vocal Music (Music Education), Performance (including concentrations in Winds, Strings, Piano, Percussion, Voice, Opera and Jazz Studies), Composition, and Music History and Literature. Admission to the option is determined by audition and approval of the director of the conservatory. Application for admission to the option should be submitted no later than the beginning of the junior year, and significant progress must be demonstrated during the remaining years.

Music Education: Instrumental Music and Choral-Vocal Music Options – Core Requirements

1. Music History and Literature: MUS 190 (section by advisement, double-counts as GE - C1); 190A, 360, 361, 490 (section by advisement, double-counts as GE - C1); 361I
3. Major Performance Organization: MUS 100/300, one unit each semester in residence
4. Music Forum: MUS 11 each semester in residence to a total of 5 units (does not count toward degree units), MUS 210A, 210B
5. Senior Recital: MUS 423A
6. Keyboard Proficiency: successful completion of conservatory's piano proficiency examination (equivalent to MUS 226B)
7. Chamber Music: Select two units from the following: MUS 200/400 and/or 201/401

Option in Instrumental Music (code MUS BM04) (132 units)
Completion of this option meets the subject matter competence requirement for the Single Subject Preliminary Credential in Music (code 170). In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Music teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as part-time or part-time student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.co.cslb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the conservatory’s Music Education Advisor early to plan their program.

The Music Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

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Option in Choral-Vocal Music (code MUS_BM01) (132 units)

Completion of this option meets the subject matter competence requirement for the Single Subject Preliminary Credential in Music (code 170). In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Music teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as post-baccalaureate students. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.csudh.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures. Prospective students should consult the Conservatory’s Music Education Advisor early to plan their program.

The Music Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements
MUS 129/329 or X129/X329 (must be taken for 8 units); 122A, 326, 327, 382A, 382B, 386, 419, 425, 480, 481, 485. Select 5 additional courses from MUS 125A, B, C, D, E and F.

Option in Performance (code MUS_BM05) (132 units)

Requirements
Core: (MUS 129, 229/429, or X129, X229/X429) required each semester in residence with an achievement of senior level on major performance medium. Junior Recital (MUS 323) and Senior Recital (MUS 423A) is required of all students.


String Instruments: MUS 200/400 or 201/401 (4 units); MUS 326; choose six units from: 428, 460, 467, 471, 478 and 493.

Wind Instruments: MUS 200/400 or 201/401 (4 units, 2 of which must be either woodwind or brass chamber music); MUS 326, 224 or 424 (4 units); choose six units from: 428, 460, 467, 471, 478 and 493.

Percussion: MUS 200/400 or 201/401 (4 units, 2 of which must be percussion ensemble); 326, choose six units from: 428, 460, 467, 471, 478 and 493.

Voice: MUS 273A, 273B, 273C, 326, 426, and 434A or 434B; choose one class from 428, 460, 467, 469, and 471; Choose an additional two units from MUS 436, 434A or 434B. Completion of Conservatory of Music Foreign Language Examination in French, German or Italian (may be waived by completion of 101B level course in French, German or Italian).

Opera: MUS 273A, 273B, 273C, 326, 436, 473, and THEA 262 or THEA 111A; two units of MUS 330 or 331 required as part of eight-unit activity requirement; choose two courses from the following: MUS 469, 3-unit theatre elective, 2-unit dance elective (DANC 111A or 113A).

Completion of Conservatory of Music Foreign Language Examination in French, German or Italian (may be waived by completion of 101B level course in French, German or Italian).

Jazz Studies: MUS 200/201/400/401 (4 units); 271, 371, 372A-B, 390, 416, 474A; Jazz Piano Proficiency: successful completion of conservatory’s Jazz piano proficiency examination (equivalent to MUS 221B); choose 4 units by advisement from the following: 370, 411, 417, 442, 455, 456, 474B and/or 497D.

Option in Composition (code MUS_BM02) (132 units)

Requirements
MUS 129 or 129X to be taken each semester in residence until successful completion of the Upper-Division Screening Examination in applied music (a minimum of 4 units is required); MUS 244A-B, 344 (must be taken concurrently with 322X), 444 (must be taken concurrently with 322X), 422X, and 24 units to be chosen under advisement as follows: 21 units to be selected from MUS 271, 329X (may be repeated multiple times), 370, 371, 372, 411, 441, 442, 443, 444, 446, 455, 456, 457, 460, 495, 495F, 497B-E, and THEA 449 (at least 3 of the 21 units must be selected from MUS 370, 455, 456 or 457); and three units to be selected from MUS 200B, 326, 393, 400B, 415, 422, 425, and 474.
Option in History and Literature (code MUS_BM03) (132 units)

Requirements
Completion of the Bob Cole Conservatory of Music Foreign Language Examination in French, German or Italian (may be waived by completion of 101B level course in French, German, or Italian). MUS 129 or 120X to be taken each semester in residence until successful completion of the Upper-Division Screening Examination in applied music (a minimum of 4 units is required). MUS 496 (Research Methods), 423C. Select 6 units from: MUS 363I, 364I, 393, 468I. Select 15 units from: MUS 428, 441, 460, 467, 469, 471 (may be repeated up to 6 units), 478, 492A, 492B, 493 (may be repeated up to 6 units), 400R, 400S (College Music may be repeated up to 3 units). Select 3 units of upper division coursework outside music, under advisement, to be related to Senior Thesis topic or include foreign language literature classes.

Minor in Music (code MUS_UM01)

Requirements
A minimum of 18 units, 9 of which must be upper division (300- and 400-level courses). Specific courses are required. A degree plan must be prepared in conference with the conservatory undergraduate advisor prior to beginning this program.

Graduate Programs

Master of Arts in Music (code MUS_MA01)
The Master of Arts degree in Music provides academic concentrations in Musicology, Music Theory, and Music Education.

Prerequisites
1. A Bachelor of Arts degree with a major in music, a Bachelor of Music degree, or a bachelor’s degree with a minimum of 24 units of upper division courses in music comparable to those required of a major in music at this University;
2. The student must request all institutions of higher learning attended to send official copies of transcripts directly to the Office of Admissions and Records and another set to the Conservatory of Music graduate advisor. Transcripts presented to the Admissions Office by the student are not acceptable. Graduates of California State University, Long Beach must follow these same procedures when making application to the Master of Arts in music program;
3. All applicants are required to complete the Cole Conservatory Graduate Placement Examination before they register for courses applicable to the Master of Arts degree. (Under special circumstances, a student may take the examination during the first semester in which he or she is registered in courses applicable to the degree.) Applicants for all options of the M.A. degree must present samples of their scholarly writings in music for review by the Graduate faculty. Applicants for the musicology concentration must show evidence of reading and translation ability in one foreign language (French or German);
4. A GPA of 3.00 or better in upper division Music courses. Students who do not meet the 3.00 GPA requirement or specified balance within the required 24 units of upper division music but who possess outstanding or unusual qualifications that promise a significant contribution to the Master of Arts program may petition for a special review from the Conservatory graduate committee.

Advancement to Candidacy
The prerequisites for advancement to candidacy are the same as those for the Master of Music.

Requirements
1. Completion of a minimum of 30 units of approved upper division and graduate courses with at least 24 units in the major. (The program may not include more than six units of transfer graduate credit);
2. Core Courses required by all Master of Arts students. 13-15 units; MUS 690 (should be taken the first time it is offered during the student’s residency); MUS 541: one course from MUS 561, 562, 563, 564, 565; MUS 668 (for 4-6 units, dependent upon concentration).
3. Additional courses for Musicology concentration: 3 units from MUS 561, 562, 563, 564, 565 (other than one taken in core); 6 units selected from MUS 561, 562, 563, 564, 565, 566, 569, 571, 576, 578, 592, 593 (not taken in core); 6 units of music electives (students in this concentration are strongly encouraged to select theory as well as performance classes, especially College Musician and New Music Ensemble). Thesis is taken for 6 units in this concentration.
4. Additional courses for Music Theory concentration: MUS 540: 6 units from MUS 541 (may be repeated), 640 (may be repeated); 6 units of electives (students in this concentration are strongly encouraged to select additional history, composition, and performance classes, especially College Musician and College Music). Thesis is taken for 6 units in this concentration.
5. Additional courses for Music Education Concentration: MUS 561, 568 or EDP 400 or 418; 4 units chosen from MUS 526, 527, 568, 582, 583, 587, 594, 596, 690; 6-7 units of electives (students in this concentration are encouraged to select performance and conducting classes). Thesis is taken for 6-8 units in this concentration, dependent upon project.
6. An oral defense of the thesis, recital, or project (MUS 096).

Master of Music Degree (code MUS_MM01)
The Master of Music degree program provides professional concentrations in Composition, Conducting-Instrumental, Conducting-Choral, Jazz Studies, Opera Performance and Instrumental/Vocal Performance.

Prerequisites
1. A Bachelor of Music degree, or a Bachelor of Arts degree with a major in Music or a bachelor’s degree, from an accredited institution, with a minimum of 24 upper division units of music comparable to those required at this University.

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2. The student must request all institutions of higher learning attended to send official copies of transcripts directly to the Office of Admissions and Records and another set to the Conservatory of Music graduate advisor. Transcripts presented to the Admissions Office by the student are not acceptable. Graduates of California State University, Long Beach must follow the same procedures when making application to the Master of Music in music program;

3. All applicants are required to complete the Cole Conservatory Graduate Placement Examination before they register for courses applicable to the Master of Music degree. (Under special circumstances, a student may take the examination during the first semester in which he or she is registered in courses applicable to the degree);

4. Criteria according to concentration:
   A. Composition: submission and approval of a portfolio of representative original scores and evidence of baccalaureate-level competency as required in the Bachelor of Music Composition Option;
   B. Conducting: successful completion of a conducting examination and approval by the conducting faculty;
   C. Performance: Theory; Performance-Opera; Jazz Studies; and Instrumental/Vocal: an audition both at a performance level and with a repertoire on an instrument or in voice acceptable to the faculty of the specific performance medium.

5. A GPA of 3.0 or better in upper division Music courses. Students who do not meet the 3.0 GPA requirement or specified balance within the required 24 units of upper division music but who possess outstanding or unusual qualifications that promise a significant contribution to the Master of Music program may petition for a special review from the Conservatory Graduate Advisory Council.

Advancement to Candidacy

1. Satisfy all the general University requirements, including fulfillment of the Graduation Writing Assessment Requirement (GWAR);

2. Remove all undergraduate deficiencies, which were determined by this Conservatory Graduate Placement Examination and/or the Dean of the College of the Arts;

3. Pass the Cole Conservatory Qualifying Examinations;

4. Submit an approved project or thesis proposal, and a graduate degree program approved by the student's Thesis Committee, the Graduate Advisor, Conservatory Director, and the Dean of the College of the Arts;

5. GPA of 3.0 or higher.

Requirements

1. General requirements for all majors: Completion of a minimum of 30 units of approved upper division and graduate courses with at least 24 units in the major. (The program may not include more than six units of transfer graduate credit);

2. Core curriculum (13 units) MUS 541; one course from MUS 561, 562, 563, 564, 565, 566 (MUS 513 - Jazz Studies concentration only); MUS 690 (should be taken the first time it is offered during student's residency): MUS 698.

3. An oral defense of the thesis, recital, or project (MUS 698).

Master of Music Concentrations

Composition: MUS 544 and MUS 545; 2 units of MUS 529X or 629X (taken concurrently with MUS 544 and MUS 545); 3 units selected from MUS 555, 556, 557. 6 units selected under advisement from MUS 510, 511, 512, 514, 620, 522, 525, 529X, 540, 543, 545, 555, 556, 557, 597, and 640. 2 units of electives selected under advisement.

Conducting – Instrumental: 2 units of MUS 500, 600, or 601; 4 units of 520W or 620W; select by advisement two courses from MUS 520, 525, 680; 5 – 6 units of electives selected by advisement.

Conducting – Choral: 2 units of MUS 500, 600 or 601; 4 units of 520W or 620W; 519 (must be taken twice); 573, 575; 4 units of music electives by advisement.

Jazz Studies: MUS 510, 512, 514, 601, 2 units; 7 units selected by advisement from MUS 514, 515, 517, 529Y, 629, 543, 552, 587, 587 and/or 597A/D.

Opera Performance: 4 units for MUS 529Q or 629Q; 2 units of MUS 530, 532, 536, 573, THEA 490; and 2 units of electives chosen by advisement. Students in this concentration are strongly encouraged to take MUS 569.

Instrumental Performance: 4 units of MUS 500, 530, 600 or 601; 4 units of MUS 529 or 629 (section by advisement).

Keyboard Specialization: 4 units of MUS 509A-B; 5 units of electives selected by advisement (MUS 577A-B, 600G, 600U strongly encouraged). Other instrumental specializations: 9 units of electives chosen by advisement.

Vocal Performance: 2 units of MUS 500, 530, 600, or 601; 4 units of MUS 529 or 629 (section by advisement); MUS 573, choose 4 units from MUS 526, 534A, 534B under advisement; 5 units of electives chosen by advisement.

Teaching Credentials

Students seeking a degree in Music Education refer to the instrumental Music and Choral-Vocal Music options under B.M. degree. All students entering the credential program after August 31, 2003 will be following the SB2047 credential program and should consult the Single Subject Credential Program requirements in this catalog. For further information consult with the Conservatory credential advisor.

Music Performance

Opportunities to participate in various instrumental and vocal ensembles are available to all students regardless of major. Before enrolling in a performing group, students should apply to the director of the organization in which they wish to participate. Music performance courses may be repeated; up to 8 units of credit in MUS 100 or 300 may be counted toward a bachelor's degree. Simultaneous enrollment in more than one organization is permitted.

Courses (MUS)

PREBACCALAUREATE

11. Music Forum (1)

Documented attendance at minimum of 10 concerts and conservatory forum events during term. Units not counted toward degree totals. Not taken the same term as MUS 210A or B or MUS 423.

Credit/No Credit grading only. Required each semester in residence to a maximum of five units in different semesters.
130. Opera (1)
Prerequisites: Consent of instructor.
Performance of excerpts and complete works for lyric theatre; solo and ensemble coaching; intensive language and dictation training; preparation and performance of entire role in original language; additional areas include stage management, scheduling, costume, set construction.
(3 hrs or more lab)

131. Music Theater (1)
Prerequisite: Consent of instructor.
Performance of musical theater works and operas. Additional areas include stage management, scheduling, costume, and set construction.
May be repeated to maximum of 4 units, only 2 of which may count toward degree. (2 hrs reh.)

140. Basic Music Theory (2)
Notation and reading of music. Written, aural, and performance experience with scales, intervals, chords, and melodies. Provides essential background for more advanced courses in music theory. Course fee may be required.

141A. musicianship I (2)
Corequisite: MUS 142A.
Study of basic skills in music reading, ear training, sight-singing, melodic and harmonic dictation. Computer assisted instruction is available.
Course fee may be required.

141B. musicianship II (2)
Prerequisite: MUS 141A or satisfactory score on theory placement test. Corequisite: MUS 142B.
Study of skills in music reading, ear training, sight-singing, and melodic and harmonic dictation through modulatory and chromatic harmony. Computer assisted instruction is available.
Course fee may be required.

142A. Harmony I (3)
Corequisite: MUS 141A.
Beginning principles of part writing, to include modal counterpoint, concepts of chord progression, chord prolongation, and analysis in diatonic and chromatic tonal music.

142B. Harmony II (3)
Prerequisites: MUS 141A & 142A or satisfactory score on theory placement test. Corequisite: MUS 141B.
Principles of part-writing, to include modal counterpoint, concepts of chord progression, chord prolongation, and analysis in diatonic and chromatic tonal music.

160. History of Music: Baroque/Classic (3)
Prerequisite: MUS 190.
Chronological survey of music and musical styles from 1600 to 1750 with selected readings, recordings, and scores for in-depth study. Priority for music majors and minors, but open to others who can read music.
Letter grade only (A-F).

180. Exploring Music (3)
Fundamentals of music and essentials of music listening. Basic performance skills in singing and playing music. Not open for credit to music majors.
Letter grade only (A-F).

190. Listener’s Approach to Music (3)
Prerequisites or corequisites: ENGL 100 or another General Education Foundation course.
Non-technical course open to all students. Materials, forms and styles of music with extensive listening.

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200. Chamber Music (1)
Prerequisite: Consent of instructor.
May be repeated to maximum of 8 units. (2 hrs. or more rehearsal)
A. Brass Ensemble
B. New Music Ensemble
C. String Ensemble
D. University String Quartet
E. University Wind Quintet
F. University Brass Quintet
G. Piano Ensemble
H. Vocal Jazz Ensemble II
J. Jazz Combos
K. Performance
L. Brass Chamber Music
M. Percussion Ensemble
N. Steel Drum Orchestra
O. Woodwind Chamber Music
P. String Chamber Music
Q. Women's Chorus
R. Collegium-Vocal
S. Collegium-Instrumental
T. Saxophone Ensemble
U. Directed Accompanying
V. Studio Orchestra
X. World Percussion Group
Y. World/Tradicional Music Performance
Z. University Percussion Quartet

201. Jazz Ensemble (1)
Prerequisite: Consent of instructor.
May be repeated for maximum of 8 units with different topics in same semester. (3 hrs. or more rehearsal)
A. Jazz Ensemble I
B. Jazz Ensemble II
D. Vocal Jazz Ensemble I

210A. Writing About Music (1)
Basics of research and writing skills unique to the study of music. Includes introduction to music library resources, internet research and music criticism.
Credit/No Credit grading only.

210B. Introduction to Basic Music Technology (1)
Introduction to basic music technology including files types, compression, digital audio, recording, sequencers, and notation programs.
Credit/No Credit grading only.

220A-B. Class Piano (1-1)
Continuation of 120A-B.
(2 hours laboratory)

221A. Class Jazz Piano I (1)
Prerequisite: Successful completion of conservatory's keyboard proficiency exam.
Basic jazz keyboard skills including realization of jazz harmony and progressions with idiomatic chord voicings.
Letter grade only (A-F). (2 hours lab)

221B. Class Jazz Piano II (1)
Prerequisite: MUS 221A or consent of instructor.
Advanced keyboard realization of jazz harmony, performing idiomatic chord voicings and chord progressions performed with trombone and by memory.
Letter grade only (A-F). (2 hours lab)

224. Orchestral Literature; Performance and Styles (1)
Prerequisite: Consent of instructor.
Performance of standard orchestral repertoire in instrumental sectionals for Brass and/or Woodwinds or Strings.
Letter grade only (A-F). Repeatable to 8 units in different semesters. (2 hrs. rehearsal)

229. Individual Instruction for the Music Major (2)
Open to performance majors only.
Private lessons in major performance medium. Application must be made to Director of the Bob Cole Conservatory of Music during semester prior to registration. Registration subject to conservatory's approval.
May be repeated to maximum of 8 units.
A. Baritone/Tuba
B. French Horn
C. Trombone
D. Trumpet
E. Harpsichord
F. Organ
G. Piano
J. Percussion
K. Double Bass
L. Cello
M. Viola
N. Violin
O. Guitar
P. Harp
Q. Voice
R. Bassoon
S. Clarinet
T. Flute
U. Oboe
V. Saxophone

240. Advanced Musicianship (2)
Prerequisites: MUS 141B and 142B or satisfactory score on theory placement exam.
Study of advanced skills in ear training and sight singing.
Letter grade only (A-F). Course fee may be required.

241. Counterpoint (3)
Prerequisites: MUS 141B and 142B.
Analysis and writing of canons, two-part inventions, and fugues.

244A. Composition Workshop I (2)
Prerequisite: MUS 142A and consent of instructor.
Survey of contemporary techniques in composition, music notation and contemporary literature. Short compositions in workshop setting for beginning composers.
Letter grade only (A-F).

244B. Composition Workshop II (2)
Prerequisites: MUS 244A and consent of instructor.
Survey of contemporary techniques in composition, music notation and contemporary literature. Short compositions in workshop setting for beginning composers.
Letter grade only (A-F).

271. Improvisation Techniques I (2)
Basic techniques in improvisation, beginning with simple question and answer phrases and progressing to extended solos. Detailed and applied knowledge of chord progressions.
(1 hr. lab, 2 hrs. lab)
273A. Diction for Singers (2)
Prerequisite: Consent of instructor.
Focus on IPA, International Phonetic Alphabet, and its application in English and Italian. Repertoire focuses on correct pronunciation of art song, choral repertoire, and opera arias.
Letter grade only (A-F).

273B. French Diction for Singers (1)
Prerequisite: MUS 273A.
Focus on mastering application of International Phonetic Alphabet with phonetic trans literation skills to French language. Content focuses on correct pronunciation of art song, choral repertoire, and opera arias.
Letter grade only (A-F).

273C. German Diction for Singers (1)
Prerequisite: MUS 273A.
Focus on mastering application of International Phonetic Alphabet with phonetic trans literation skills to German language. Content focuses on correct pronunciation of art song, choral repertoire, and opera arias.
Letter grade only (A-F).

277. Keyboard Skills (2)
Open to Music majors only.
Development of basic technical skills at the piano, including sight reading, harmonization at the keyboard, chord and scale identification, score analysis, and beginning ensemble playing.
Not open for credit to students with credit in MUS 277A.

290. Popular Music in America (3)
Prerequisite: Completion of GE Foundation requirements.
Artistic and socio-economic influences on popular music in America from 1840 to present. Special consideration of impact on "rock" music of various cultures and ethnic groups within U.S.

UPPER DIVISION

300. Major Performance Organization (1)
Prerequisite: Consent of instructor.
May be repeated to maximum of 8 units. (3-5 hrs reh.)
A. Concert Band
B. Symphonic Band
C. Wind Symphony
E. Forty-Niner Chorus
F. University Choir
G. Chamber Choir
J. Symphony Orchestra

323. Junior Recital (1)
Prerequisite: MUS 241.
Recital of standard literature for solo instrument or voice in performance option of Bachelor of Music degree. Enrollment restricted to music majors passing conservatory's qualifying examination.

326. Conducting (2)
Prerequisites: Consent of instructor.
Introduction to principles and techniques of conducting and ensemble organization. Study and interpretation of instrumental and choral repertoire using class as laboratory ensemble.
Letter grade only (A-F). (1 hour lecture, 2 hour lab).

327. Choral Organization and Rehearsal Techniques (2)
Rehearsal techniques for the choral musician as well as study of audition techniques, choral tone development, diction, and score preparation as well as organization and management of choral programs.

329. Individual Instruction for Music Majors (1)
Prerequisite: Successful completion of Upper Division Screening Exam on applied instrument or voice.
Open to music majors only. Private lessons in major performance medium. Application must be made to Director of the Bob Cole Conservatory of Music during semester prior to registration. Registration subject to conservatory's approval.
May be repeated to maximum of 10 units.
A. Baritone/Horn
B. French Horn
C. Trombone
D. Trumpet
E. Harpsichord
F. Organ
G. Piano
J. Percussion
K. Double Bass
L. Cello
M. Viola
N. Violin
O. Guitar
P. Harp
Q. Voice
R. Bassoon
S. Clarinet
T. Flute
U. Oboe
V. Saxophone
W. Conducting
X. Composition

330. Opera (1)
Prerequisites: Consent of instructor.
Performance of excerpts and complete works for lyric theatre: solo and ensemble coaching; intensive language and diction training; preparation and performance of entire role in original language; additional areas include stage management, scheduling, costuming, set construction.
May be repeated to maximum of 4 units, only 2 of which may count toward degree. (3 hrs or more reh.)

331. Music Theater (1)
Prerequisite: Consent of Instructor.
Performance of musical theater works and operas. Additional areas include stage management, scheduling, costuming, and set construction.
May be repeated to maximum of 4 units, only 2 of which may count toward degree. (2 hrs reh.)

332. Opera Coaching (1)
Prerequisite: Consent of instructor. Corequisite: MUS 330.
One-on-one and small group coaching for opera majors.
Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters. (3-5 hrs reh.)

341. Musical Form and Analysis (3)
Prerequisites: MUS 241 or consent of instructor.
Intensive analysis of the historical development of form in tonal music from the early Baroque through the early 20th century.

342. Materials of Modern Music (3)
Prerequisite: MUS 341.
Continuation of intensive analysis of representative compositions of 20th Century with emphasis on writing in selected 20th Century styles.
344. Composition (2)
Prerequisites: MUS 244A B; Corequisite MUS 320X.
Further exploration of contemporary techniques in composition, music aesthetics and contemporary literature.
Not open for credit to students with credit in MUS 344A. Letter grade only (A-F).

360. History of Music: Medieval/Renaissance (3)
Prerequisites: MUS 190.
Chronological survey of music and musical readings, recordings, and scores for in-depth study. Primarily for music majors and minors, but open to others who read music.
Letter grade only (A-F).

363L. Music and the Visual Arts (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing, and one of the following courses: MUS 150 or ART 110.
Explores interrelationships between visual arts and music in Western culture by comparing artistic methodologies employed by important visual artists to those employed by important composers of art music from 10th through 20th Centuries.

364L. Music and the Temporal Arts (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing, and one of the following courses: MUS 150 or ART 110.
Study of interrelationships of temporal arts (works of poets, writers, choreographers, and playwrights) and music of important composers of 10th through 20th Centuries.

370. Introduction to Music Technology (3)
Introduction to principles of sound recording, sound production, sound reinforcement, MIDI, and electronic music.

371. Improvisation Techniques II (2)
Continuation of MUS 271.
(1 hr lec, 2 hrs lab)

372A. Jazz Theory I (2)
Prerequisites: MUS 142B or consent of instructor.
Jazz notation, chord progressions, chord voicing, voice leading, jazz harmonization, chord scale relationships, functional and non-functional harmony, and form.
Not open for credit to students with credit in MUS 372. Letter grade only (A-F).

372B. Jazz Theory II (2)
Prerequisites: MUS 372A or consent of instructor.
Analysis of music by jazz masters such as Thad Jones, Bob Brookmeyer, Bob Mintzer, Thelonious Monk, Duke Ellington, and John Coltrane. Includes introduction to many great improvisers through analysis of solo transcription and composition in representative styles.
Letter grade only (A-F).

374. History of Music: Nineteenth/ Twentieth Centuries (3)
Prerequisites: MUS 150, 150B or consent of instructor.
Chronological survey of music and musical styles from 1800 to present, with selected readings, recordings, and scores for in-depth study. Primarily for music majors and minors, but open to others who read music.
Letter grade only (A-F).

382A. Instrumental Ensemble Lab (3)
Prerequisite: Three instrumental methods courses from MUS 125 series.
Examination of organizational procedures for beginning/intermediate and intermediate/advanced ensembles. Performance in secondary instruments is required.

382B. Beginning Jazz Ensemble Lab (1)
Examination of organizational and instructional techniques relating to beginning jazz ensemble performance, as well as performance on secondary instruments and conducting ensemble class sessions. (1 hr lab)

385. Children's Music (3)
Prerequisite: MUS 160.
Introduction to general, vocal, and instrumental musical experiences appropriate for children in grades K-6. Includes participation in singing/listening activities and experience using simple melodic, rhythmic, and harmonic instruments appropriate to age and developmental levels of children. Intended for Liberal Studies majors. Others by consent of instructor.

386. Introduction to Music Education (3)
Prerequisite: MUS 160.
Provides philosophical and pedagogical theory required for design and execution of appropriate music instructional programs at general classroom, middle school, and secondary levels. Includes MIDI, sequencing, and tutorial/managerial software in music classroom/computer lab setting.
Not open for credit to students with credit in MUS 286. Letter grade only (A-F).

393. Jazz, An American Music (3)
Prerequisite: Completion of 13 unit General Education Foundation requirement and upper division standing.
Course presents development of various musical styles, forms, improvisations, significant musical concepts and major figures in past, present and future of jazz, an American music.

400. Chamber Music (1)
Prerequisite: Consent of instructor.
May be repeated to maximum of 8 units. (2 hrs rehearsal)
A. Brass Ensemble
B. Wind Ensemble
C. String Ensemble
D. University String Quartet
E. University Wind Quintet
F. University Brass Quintet
G. Piano Ensemble
H. Vocal Jazz Ensemble II
J. Jazz Combos
K. Performance
L. Brass Chamber Music
M. Percussion Ensemble
N. Steel Drum Orchestra
O. Woodwind Chamber Music
P. String Chamber Music
Q. Women's Chorus
R. Collegium Vocal
S. Collegium Instrumental
T. Saxophone Ensemble
U. Directed Accompanying
V. Studio Orchestra
X. World Percussion Group
Y. World/Traditional Music Performance
Z. University Percussion Quartet

491. Jazz Ensemble (1)
Prerequisite: Consent of instructor.
May be repeated for maximum of 8 units with different topics in same semester. (3 hours or more rehearsal)
A. Jazz Ensemble I
B. Jazz Ensemble II
D. Vocal Jazz Ensemble I

411/511. Film Scoring (3)
Prerequisites: MUS 372, 474, or consent of instructor.
Review development of various musical styles, forms, genres, and significant musical concepts and problems in creating music for film.
films. Includes film mechanics and emotional and psychological requirements of music underscoring. Students create original music for film cues.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
414.514. Techniques for the Jazz Vocalist (2)
Basic stylistic requirements for solo singing in the jazz idiom. Includes analysis of established jazz singers and styles, vocal production for a jazz sound, microphone technique, repertoire, transposition, and lyric interpretation.
Letter grade only (A-F).
415.515. Advanced Concepts in Jazz Theory (3)
Prerequisites: MUS 372, 393, 474, or consent of instructor.
Reviews development of musical styles, forms, genres, significant musical concepts and problems. Theoretical work emphasizes detailed study of harmony, form, idioms, combination of idioms, and use of experimental materials. Study will include detailed analysis of major modern jazz artists.
Letter grade only (A-F).
416.516. Jazz Pedagogy (2)
Prerequisites: MUS 271 or consent of instructor.
Organization and management of school jazz programs, addressing rehearsal techniques, improvisation, repertoire, and conducting.
Letter grade only (A-F).
417.517. Business of Music (2)
Overview of business and artistic process of music industry. Includes popular music, music and media, operation of retail music stores, and concert music. Also includes recent changes in digital recording, broadcasting technology, copyright law, and legal issues.
Letter grade only (A-F).
419.519. Choral Master Class (1)
Prerequisites: Consent of instructor.
Advanced conducting laboratory with emphasis on advanced conducting, vocal, and rehearsal techniques as well as performance practices.
Letter grade only (A-F). May be repeated to a maximum of 4 units.
422.522. Advanced Choral Conducting and Literature (2)
Prerequisites: MUS 326 and 327 or consent of instructor.
Choral technique, style, and interpretation; choral schools and composers since 18th century; contemporary secular and sacred choral compositions. Class used as laboratory group.
(1 hr lec; 2 hr lab)
423A. Senior Recital (1)
Prerequisites: MUS 341, 342. Corequisites: Concurrent enrollment in MUS 329 or 429.
Eligibility restricted to Music majors passing conservatory's qualifying examination.
Letter grade only (A-F).
423B. Senior Composition Recital (1)
Prerequisites: Senior standing and consent of instructor.
Individual recital of original music written during composition studies while in program. Eligibility restricted to Bachelor of Music composition majors passing conservatory's qualifying examination.
Letter grade only (A-F).
423C. Senior Thesis (1)
Prerequisites: MUS 360, 374, 496 and consent of Director of Music History.
In-depth research paper representing systematic study of significant problem, style, or repertory. Finished product must show thorough command of relevant literature, critical thinking and writing, and original approach. Proposal (outline, abstract, and bibliography) must be submitted for topic approval.
Letter grade only (A-F).
423D. Senior Project (1)
Prerequisites: Senior standing and consent of instructor.
Final project or internship with music or arts organization subject to approval of supervising faculty member.
Letter grade only (A-F).
424. Orchestral Literature: Performance and Styles (1)
Prerequisites: Consent of instructor.
Performance of standard orchestral repertoire in instrumental sectional for Brass and/or Woodwinds or Strings.
Letter grade only (A-F). Repeatable to 8 units in different semesters. (2 hrs. rehearsal)
425.525. Advanced Instrumental Conducting (2)
Prerequisite: MUS 326 or consent of instructor.
Principles and techniques of instrumental conducting and organization. Study and interpretation of instrumental literature using class laboratory.
(1 hr lec; 2 hr lab)
426.526. Vocal Development (2)
Prerequisites: Consent of instructor.
Theory and techniques of teaching voice.
427. Piano Pedagogy (3)
Study of philosophies, psychology, and piano teaching methods for children, as well as intermediate and advanced level students.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
428. Seminar in Musical Styles (3)
Prerequisites: MUS 160, 341, 360, 374.
Study development of musical styles, forms, genres, and significant musical concepts and problems. For Music majors only.
429. Individual Instruction for Music Majors (2)
Prerequisite: Successful completion of Upper-Division Screening Exam on applied instrument or voice.
Private lesson in major performance medium. Application must be made to the Director of the Music Department. May be repeated to a maximum of 10 units.
A. Baritone/Tuba
B. French Horn
C. Trombone
D. Trumpet
E. Harpsichord
F. Organ
G. Piano
J. Percussion
K. Double Bass
L. Cello
M. Viola
N. Violin
O. Guitar
P. Harp
Q. Voice
R. Bassoon
S. Clarinet
T. Flute
U. Oboe
V. Saxophone
W. Conducting
X. Composition
434A/534A. German Song Repertoire (2)
Prerequisite: MUS 273A, C.
Preparation of German song literature for performance, with
coaching in language, musical styles, and vocal and accompanying
techniques.
Letter grade only (A-F).

434B/534B. French Song Repertoire (2)
Prerequisite: MUS 273A, B.
Preparation of French song literature for performance, with
coaching in language, musical styles, and vocal and accompanying
techniques.
Letter grade only (A-F).

436/536. Opera Repertoire (2)
Prerequisites: MUS 273B, C or consent of instructor. Two years of
voice study, completion of Conservatory’s Music Foreign
Language Proficiency Exam may be waived upon successful
completion of 101B level course in French, German, or Italian.
Preparation of varied portfolio of voices appropriate selections from
standard operatic repertoire in English, French, German and Italian.
Include translation, lyric diction, ornamentation, tools for role study,
rehearsal and audition techniques.
Letter grade only (A-F).

441. Studies in Musical Analysis (3)
Prerequisite: MUS 341, 342.
Intensive individual and class analysis of representative
compositions of various periods and styles.

442. Orchestration (3)
Prerequisite: MUS 241.
Range, characteristics, and transpositions of all standard orchestral
instruments by writing example transcribing music. Preparation and
proofreading of scores and parts. Readings of student assignments.

443/543. Advanced Orchestration (3)
Prerequisite: MUS 442.
Techniques of arranging, transcribing, and composing for standard
chamber ensembles, chorus and orchestra. Readings of student
orchestration will be included whenever possible.

444. Advanced Composition (2)
Prerequisite: MUS 344, Corequisite: 328X.
Advanced studies in music composition, music aesthetics, and
listening methodologies.
Letter grade only (A-F). May be repeated to maximum of 4 units in
different semesters.

446. Advanced Topics in Listening and Analysis (3)
Prerequisites: MUS 344 or consent of instructor.
Study of traditional and contemporary music literature and analytical
methods, from structural linear analysis to post-modern listening
models. Includes readings in music aesthetics, critical theory, and
intensive score analyses.
Letter grade only (A-F).

454/554. School, Society, and Music Education (3)
Historical, in-depth examination of direction and influence of music
education within America's general education curriculum. Focus on
how music education has reflected and addressed changing
needs of schooling and society from Colonial school movement and
Jeffersonian era to today.
Letter grade only (A-F).

455/555. Computers and Sound (3)
Introduction to software for sound synthesis, sequencing,
digital audio, and sound processing. Understanding and analysis of
contemporary electronic music literature also emphasized. Course
culminates in creative composition or research project.
Letter grade only (A-F).

456/556. Sound Design (3)
Introduces students to principles of composition and analysis of
electro-acoustic media through application of music software,
sampling, digital media, digital signal processing, and
psychoacoustics. Culminates in collaborative creative project
involving video, web, or live theater.
Letter grade only (A-F).

457/557. Composition with Digital Media (3)
Computes created sound projects that combine visual media (including
web-based), and electronic media. Analysis of interdisciplinary
and mixed media works, collaborative work in electronic arts and
readings in critical theory and multimedia.
Letter grade only (A-F).

460/560. Studies in Performance Practices (3)
Prerequisite: MUS 160, 360 or consent of instructor.
Survey of historical performance in vocal and instrumental
music, focusing on primary sources. Spans various genres and
areas.

467/576. Studies in Gender and Music (3)
Prerequisite: MUS 374 or consent of instructor.
Survey of issues surrounding women as musicians (performers and
composers), comparative studies of role men and women have
played in music, and feminist criticism of music.
Letter grade only (A-F).

468. Music and Film (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing, and one of
the following courses: MUS 190, FEA 516, THEA 127, ENGL 180, or
ART 110.
Study of interrelationships of dramatic, visual, and musical arts in
film, with special emphasis on role of music.

469/569. Music of the Theater (3)
Prerequisite: MUS 374.
History and development of music for stage from 1600 to present,
it's conventions and styles. Analysis of representative masterworks.

471/571. Studies in Ethnomusicology (3)
Prerequisites: MUS 374 or consent of instructor.
Emphasis on theory and methodology of ethnomusicological
study. Investigation of music of particular non-western or popular
cultures. For music majors only.
Letter grade only (A-F). May be repeated to maximum of 4 units.

473/573. Advanced Diction for Singers (2)
Prerequisites: MUS 273A, 273B, or consent of instructor.
Advanced principles of diction and International Phonetic Alphabet
(IPA) applied to lyric Italian, French, German, and English
repertoire; intended for Senior and Graduate level vocalists and
choral conductors. Special studies possible in other languages.
Letter grade only (A-F).

474A/574A. Jazz Arranging I (2)
Prerequisite: MUS 372B or consent of instructor.
Fundamentals of jazz arranging, including 4-part writing, harmonic
practices and philosophies of arranging.
Not open for credit to students with credit in MUS 474. Letter grade
only (A-F).

474B/574B. Jazz Arranging II (2)
Jazz arranging for big band through detailed analysis of known big
band writers. Emphasis on reharmonization, the idiomatic use of
counterpoint, styles and song forms.
Letter grade only (A-F).

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477A-B / 577A-B. Piano Accompanying (2-2)
Prerequisite: MUS 277 or consent of instructor.
Instruction and training in techniques of accompanying singers, instrumentalists, and ensembles.

478 / 578. Musical Instruments of World (3)
Prerequisites: MUS 350 or consent of instructor.
Open to music majors and minors. Study of origins and history of musical instruments in western and non-western world, with emphasis on cross-cultural influences, iconographical and organological issues, and scientific classification.
Letter grade only (A-F).

480 / 580. Marching Band Techniques (2)
Marching fundamentals, charting formations, precision drills, parade techniques and half-time pageantry.

482 / 582. Instrumental Rehearsal Techniques and Literature (3)
Procedures for organization and development of instrumental programs and literature for performing groups.

483A / 583A. Choral Repertoire I (2)
Prerequisite: MUS 326 or consent of instructor.
Examination of five genres of choral repertoire: Mass, motet, cantata, cantico, and madrigal. Traditional and contemporary choral repertoire for public school teachers and church choir directors.
Letter grade only (A-F).

483B / 583B. Choral Repertoire II (2)
Prerequisite: MUS 326 or consent of instructor.
Survey of choral and choral/orchestral works from Renaissance to 20th century.
Letter grade only (A-F).

484. Arranging (2)
Prerequisites: MUS 142B and 125T.
Arranging techniques for choir, band, and orchestra in grades K-12.
Letter grade only (A-F).

485 / 585. Music for the Elementary Child (3)
Examination of approaches to developing musical and aesthetic sensibilities in children. Students create vocal, instrumental and listening experiences appropriate for use in grades K-6. Intended for music education majors. Others by consent of instructor.

487 / 587. Microcomputers and Music Learning (3)
Prerequisite: MUS 125T or consent of instructor.
Music education applications of microcomputers, including: existing instructional software and hardware, administrative applications, criteria for software and hardware selection. MIDI music composition and contemporary issues and trends.

490. Introduction to Music Cultures (3)
Prerequisite: Completion of GE Foundation requirements.
Music of various world cultures and ethnic groups representative of diversity of United States. Includes music's function, social organization including age and gender roles, distinctive characteristics, types of instruments, and cultural performance standards.

492A / 592A. Studies in Keyboard Music (2)
Prerequisite: MUS 300 or consent of instructor.
Survey of evolution of keyboard music including clavichord, harpsichord, piano, and organ from 18th century to Beethoven.

492B / 592B. Studies in Keyboard Music (2)
Prerequisite: MUS 360 or consent of instructor.
Survey of evolution of keyboard music including clavichord, harpsichord, piano, and organ from Beethoven to present.

493 / 593. Studies in Instrumental Music (3)
A seminar format class on one of the topics in instrumental music, including but not limited to: symphonic literature, survey of program music, history of the concerto, chamber music survey, and history of the wind band.
Letter grade only (A-F). May be repeated to maximum of 6 units.

494 / 594. Music Learning Theory (3)
Investigates research and resulting methodology developed by Dr. Edwin Gould on how children learn music, including nature of music aptitude, Music Learning Theory Curriculum, incorporating Music Learning Theory in music classroom and rehearsal settings, and evaluation and assessment of student learning.
Letter grade only (A-F).

495. Special Topics in Music (3)
Prerequisite: Consent of instructor.
Topics of current interest in various fields of music selected for special presentation and development.
Topics will be announced in Schedule of Classes. May be repeated to maximum of 6 units.

A. Kodaly Concept I: Methodology, Solfege and Conducting
Prerequisite: Consent of Instructor. Corequisite: MUS 494B.
Examination of Kodaly approach to music education with particular emphasis on relevance and application to American music education. Special emphasis is given to sequences of concepts for levels K-3. Includes Solfege, folk song analysis and collection, conducting, games and movement.

B. Kodaly Concept II: Methodology, Solfege and Conducting
Corequisite: 495A.
Examination of Kodaly approach to music education with particular emphasis on relevance and application to American music education. Special emphasis is given to sequence of concepts for levels K-3. Includes Solfege, folk song analysis and collection, conducting, games and movement.

F. Music and Dance Collaboration (3)
Corequisite: Consent of Instructor.
Music and dance students create new works for music and dance. Collaborations may take form of improvisational, semi-improvisational, or through composed creations developed by two dancers and two musicians working in group setting.

496 / 596. Research Methods (3)
Principles of research and writing about music, thesis preparation, and citation/bibliographic format. Serves as introduction to graduate study in music. Required of all MA and MM candidates in music.

497 / 597. Special Topics in Music Composition (3)
Prerequisite: Consent of instructor.
Topics of current interest in field of music composition selected for special presentation and development.
Topics will be announced in Schedule of Classes. Letter grade only (A-F).

B. Sound Design for Theatre
C. Advanced Film Scoring Project
D. Contemporary and Computer Music Notation
E. Composition with Interactive Technologies
G. From Poetry to Songs: Composing Art Songs

499. Special Studies (1-3)
Prerequisite: Consent of instructor.
Individual research or group investigation of selected topics.
May be repeated to maximum of 6 units.

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GRADUATE LEVEL

500. Major Performance Organization (1)
Prerequisite: Consent of instructor.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
(3-5 hrs req.)
A. Concert Band
B. Symphonic Band
C. Wind Symphony
D. University Chorus
E. Chamber Choir
J. Symphony Orchestra

510. Improvisation Styles and Literature (3)
Prerequisites: MUS 372, 303, 474, or consent of instructor.
Explores various musical styles, forms, genres, and significant
cultural concepts and musics in Jazz Improvisation. Theoretical work
emphasizes detailed study of harmonic and rhythmic forms, digital
styles and scales, combination of ideas, patterns, use of
experimental materials, transcriptions and historic implications.
Letter grade only (A-F).

511. Film Scoring (3)
Prerequisites: MUS 372, 474, or consent of instructor.
Reviews development of various musical styles, forms, genres, and
significant cultural concepts and musics in Jazz Improvisation. Theoretical work
emphasizes detailed study of harmony and rhythmic forms, digital
styles and scales, combination of ideas, patterns, use of
experimental materials, transcriptions and historic implications.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

512. Advanced Techniques in Jazz Arranging (3)
Prerequisite: MUS 474 or consent of instructor
Advanced scoring techniques used with big band arranging and
orchestrations for studio/pop orchestras. Includes ranges
and capabilities of instruments and scoring for traditional and
contemporary instrumentation. Requires the composition of a
major work to be recorded by CSULB Studio Orchestra.
Letter grade only (A-F). May be repeated to a maximum of 6 units
in different semesters.

513. History and Analysis of Jazz Styles (3)
Prerequisites: MUS 372, 303, or consent of instructor.
Explores development of various musical styles, forms, genres, and
significant cultural concepts and musics in Jazz History.
Letter grade only (A-F).

514. Techniques for the Jazz Vocalist (2)
Prerequisites: MUS 372, 303, 474, or consent of instructor.
Explores development of various musical styles, forms, genres, and
significant cultural concepts and musics in Jazz History.
Letter grade only (A-F).

515. Advanced Concepts in Jazz Theory (3)
Prerequisites: MUS 372, 303, 474, or consent of instructor.
Reviews development of musical styles, forms, genres, significant
musical concepts and problems. Theoretical work emphasizes
detailed study of harmonic, form, idioms, combination of idioms,
and use of experimental materials. Study will include detailed
analysis of major modern jazz arrangers.
Letter grade only (A-F).

516. Pedagogy of Jazz (2)
Prerequisite: MUS 271 or consent of instructor.
Organization and management of school jazz programs,
addressing rehearsals techniques, improvisation, repertoire, and
conducting.
Letter grade only, (A-F).

517. Business of Music (2)
Overview of business and artistic process of music industry. Includes
popular music, music and media, operation of retail music stores,
and film, theoretical, and concert music. Also includes recent changes
in digital recording, broadcasting technology, copyright laws, and
legal issues.
Letter grade only (A-F).

519. Choral Master Class (1)
Prerequisite: Consent of instructor.
Advanced conducting laboratory with emphasis on advanced
conducting, vocal, and rehearsal techniques as well as performance
practices.
Letter grade only (A-F). May be repeated to a maximum of 4 units.

520. Graduate Conducting Seminar (3)
Prerequisite: Consent of instructor.
Advanced baton technique, interpretation, securing proper sound,
organizing routine, and program making.
Letter grade only (A-F).

522. Advanced Choral Conducting and Literature (2)
Prerequisites: MUS 326 and 327 or consent of instructor.
Choral technique, style, and interpretation; choral schools and
composers since 15th century; contemporary secular and sacred
choral compositions. Class used as laboratory group.
Letter grade only (A-F). (1 hr lec., 2 hrs lab)

524. Orchestral Literature: Performance and Styles (1)
Prerequisites: Consent of instructor.
Performance of selected orchestral repertoire in instrumental
sections for Strings and/or Woodwinds or Brass.
Letter grade only (A-F). May be repeated to a maximum of 8 units
in different semesters. (2 hrs rehearsal)

525. Advanced Instrumental Conducting (2)
Prerequisite: MUS 326 or consent of instructor.
Principles and techniques of instrumental conducting and
organization. Study and interpretation of instrumental literature using
class laboratory.
(1 hr lec. 2 hrs lab)

526. Vocal Development (2)
Prerequisite: Consent of instructor.
Theory and techniques of teaching voice.
Letter grade only (A-F).

529. Individual Instruction for Music Majors (1)
Open to graduate students in music only. Private lessons in major
performance medium. Application must be made to Graduate
Advisor of the Bob Cole Conservatory of Music during semester prior
to registration. Registration is subject to conservatory's approval.
May be repeated to maximum of 10 units.
A. Baritone/Tuba
B. French Horn
C. Trombone
D. Trumpet
E. Flugelhorn
F. Organ
G. Piano
J. Percussion
K. Double Bass
L. Cello
M. Viola
N. Violin
O. Guitar
P. Harp
Q. Voice
R. Bassoon
S. Clarinet

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536. Opera (1)
Prerequisites: Consent of instructor.
Performance of excerpts and complete works for lyric theatre; solo and ensemble coaching; intensive language and diction training; preparation and performance of entire role in original language. Additional areas include stage management, scheduling, costuming, set construction.
Letter grade only (A-F). May be repeated to a maximum of 4 units. (5 hrs or more reh.)

531. Music Theater (1)
Prerequisites: Consent of instructor.
Performance of musical theater works and operas, include stage management, scheduling, costuming, and set construction.
(2 hrs reh.)

532. Opera Coaching (1)
Prerequisites: Consent of instructor. Corequisite: MUS 530.
One-on-one and small group coaching for opera majors.
Letter grade only (A-F). May be repeated to a maximum of 4 units in different semesters. (3-5 hrs reh.)

534A./434A. German Song Repertoire (2)
Prerequisites: MUS 273A, C.
Preparation of German song literature for performance, with coaching in language, musical styles, as well as vocal and accompanying techniques.
Letter grade only (A-F).

534B./434B. French Song Repertoire (2)
Prerequisites: MUS 273A, B.
Preparation of French song literature for performance, with coaching in language, musical styles, as well as vocal and accompanying techniques.
Letter grade only (A-F).

536. Opera Repertoire (2)
Prerequisites: MUS 273B, C or consent of instructor.
Preparation of varied portfolio of voice-appropriate solos from standard operatic repertoire in English, French, German and Italian. Includes translation, lyric diction, ornamentation, tools for role study, theatrical and audition techniques.
Letter grade only (A-F).

540. Music Theory Pedagogy (3)
Prerequisites: Placement in MUS 541 based on Graduate Theory Placement Exam, or successful completion of MUS 441.
Survey of curricular options, analysis goals, written and aural-skills concerts, and general pedagogical philosophies in teaching of music theory. Study role content-based goals and objectives in determining teaching and assessment materials. Examination of reciprocal relationship between thinking and listening.
Letter grade only (A-F).

541. Seminar in Musical Analysis (3)
Analysis of forms and techniques of musical compositions in various genres and styles.
May be repeated to maximum of 6 units.

543./443. Advanced Orchestration (3)
Prerequisites: MUS 442.
Techniques of arranging, transcribing, and composing for standard chamber ensembles, chorus and orchestra. Readings of student orchestrations will be included whenever possible.

544. Graduate Composition I (2)
Corequisite: MUS 529X.
Study of contemporary techniques in composition, music aesthetics, and contemporary literature.
Letter grade only (A-F).

545. Graduate Composition II (2)
Prerequisite: MUS 544. Corequisite: MUS 529X.
Advanced studies in musical composition, music aesthetics, and listening methodologies.
Letter grade only (A-F). Course may be repeated to maximum of 4 units in different semesters.

554./454. School, Society, and Music Education (3)
Historical, in-depth examination of direction and influence of music education within America's general education curriculum. Focus on how music education has reflected and addressed changing needs of schooling and society from singing school movement and Jeffersonian era to today.
Letter grade only (A-F).

555./455. Computers and Sound (3)
Introduces students to music software for sound synthesis, sequencing, digital audio, and sound processing. Listening and analysis of contemporary electronic music literature is also emphasized. Course culminates in creative composition or research project.
Letter grade only (A-F).

556./456. Sound Design (3)
Introduces students to principles of composition and analysis of electro-acoustic media through application of music software, sampling, digital media, digital signal processing, and psychoacoustics. Course culminates in collaborative creative project involving video, web, or live theater.
Letter grade only (A-F).

557. Composition with Digital Media (3)
Composer creates projects that combine visual media (including web-based), and electronic music. Analysis of interdisciplinary and mixed media works, collaborative work in electronic arts and readings in critical theory and multimedia.
Letter grade only (A-F).

561. Seminar in Medieval and Renaissance Music (3)
Prerequisite: MUS 360, or consent of instructor.
Topics in development of musical styles and genres from Gregorian Chant through late sixteenth-century sacred and secular polyphony.
Letter grade only (A-F). May be repeated to maximum of 6 units.

562. Seminar in Baroque Music (3)
Prerequisites: MUS 341, 360, or consent of instructor.
Stylistic analysis and inquiry into cultural background of composers and genres.
Letter grade only (A-F). May be repeated to maximum of 6 units.

563. Seminar in Classical Music (3)
Prerequisites: MUS 341, 360, or consent of instructor.
Music from Rococo to end of eighteenth century. Philosophical attitudes in relation to musical styles.
Letter grade only (A-F). May be repeated to maximum of 6 units.

564. Seminar in Romantic Music (3)
Prerequisites: MUS 342, 374 or consent of instructor.
Music from Beethoven to end of nineteenth century.
Letter grade only (A-F). May be repeated to maximum of 6 units.
565. Seminar in 20th-Century Music (3)
Prerequisites: MUS 342, 374, or consent of instructor.
Stylistic analysis and music; aesthetic and socioeconomic problems of contemporary music; survey of new music.
Letter grade only (A-F). May be repeated to maximum of 6 units.

568.400. Studies in Performance Practices (3)
Prerequisites: MUS 100, 500 or consent of instructor.
Surveys issues of historical performance in vocal and instrumental music, focusing on primary sources. Span various genres and eras.
Letter grade only (A-F).

569.460. Music of the Theater (3)
Prerequisite: MUS 374.
History and development of music for stage from 1600 to present, its conventions and styles. Analysis of representative masterworks.
Letter grade only (A-F).

571.471. Studies in Ethnomusicology (3)
Prerequisite: MUS 374 or consent of instructor.
Emphasis on theory and methodology of ethnomusicological study. Investigation of music of particular non-western or popular cultures. For music majors only.
Letter grade only (A-F). May be repeated to maximum of 6 units.

573.473. Advanced Diction for Singers (2)
Prerequisites: MUS 273A, 273B, or consent of instructor.
Advanced principles of diction and International Phonetic Alphabet (IPA) applied to lyric Italian, French, German, and English repertoire; intensifies for Senior and Graduate level vocalists and choral conductors. Special studies possible in other languages.
Letter grade only (A-F).

574A/474A. Jazz Arranging I (2)
Prerequisite: MUS 372B or consent of instructor.
Fundamentals of Jazz arranging, including 4-part writing, harmonic practices and philosophies of arranging.
Not open for credit to students with credit in MUS 574. Letter grade only (A-F).

574B/474B. Jazz Arranging II (2)
Jazz arranging for big band through detailed analysis of known big band writers. Emphasis on reharmonization, the idiomatic use of counterpoint, styles and song forms.
Letter grade only (A-F).

575. Studies in Choral Music (3)
Prerequisite: Consent of instructor.
Studies in research techniques for choral musicians and exploration of choral masterworks including score preparation, performance practice considerations, and historical investigation. Rehearsal techniques and principles and procedures necessary to effective choral teaching also examined.
Letter grade only (A-F). May be repeated to maximum of 6 units.

576.467. Studies in Gender and Music (3)
Prerequisites: MUS 374 or consent of instructor.
Surveys issues surrounding women as musicians (performers and composers), comparative studies of roles men and women have played in music, and feminist criticism of music.
Letter grade only (A-F).

577A-B/477A-B. Piano Accompanying (2-2)
Prerequisites: MUS 277 or consent of instructor.
Instruction and training in art and techniques of accompanying for singers, instrumentalists, and ensembles.
Letter grade only (A-F).

578.478. Musical Instruments of World (3)
Prerequisites: MUS 360 or consent of instructor.
Open to music majors and minors. Study of origins and history of musical instruments in western and non-western world, with emphasis on cross-cultural influences, iconographical and organological issues, and scientific classification.
Letter grade only (A-F).

580.480. Marching Band Techniques (2)
Marching fundamentals, charting, formations, precision drills, parade techniques and half-time pageantry.
Letter grade only (A-F).

581. Foundations of Music Education (3)
Open to graduate music majors only. Survey of contemporary aesthetic, philosophical, psychological and sociological trends in music education.
Letter grade only (A-F).

582.482. Instrumental Rehearsal Techniques and Literature (3)
Procedures for organization and development of instrumental programs and literature for performing groups.
Letter grade only (A-F).

583A. Choral Repertoire I (2)
Prerequisites: MUS 320 or consent of instructor.
Examination of five genera of choral repertoire: Mass, motet, cantata, oratorio, and madrigal. Traditional and contemporary choral repertoire for public school teachers and church choir directors.
Letter grade only (A-F).

583B. Choral Repertoire II (2)
Prerequisites: MUS 320 or consent of instructor.
Survey of choral and choral/orchestral works from Renaissance to 20th century.
Letter grade only (A-F).

585.485. Music for Elementary Child (3)
Examination of approaches to developing musical and aesthetic sensibilities in children. Students create vocal, instrumental and listening experiences appropriate for use in grades K-8. Intended for music education majors. Others by consent of instructor.
Letter grade only (A-F).

587.487. Microcomputers in Music Learning (3)
Prerequisites: MUS 125T or consent of instructor.
Music Education: applications of microcomputers, including existing instructional software and hardware, administrative applications, criteria for software and hardware selection, MIDI music composition, and contemporary issues and trends.
Letter grade only (A-F).

588. Quantitative Issues and Research in Music Education (3)
Prerequisites: MUS 581.
Assessment and curriculum development; appropriate techniques and costing tools for measurement and evaluation of musical behavior; survey and critical analysis of research, especially quantitative, in areas relevant to music education. Design research papers appropriate to field.
Letter grade only (A-F).

592A/492A. Studies in Keyboard Music (2)
Prerequisite: MUS 360 or consent of instructor.
Survey of evolution of keyboard music including clavichord, harpsichord, piano, and organ from 13th century to Beethoven. Not open for credit to students with credit in MUS 592.
592B / 492B. Studies in Keyboard Music (2)
Prerequisite: MUS 360 or consent of instructor.
Survey of evolution of keyboard music including clavichord, harpsichord, piano, and organ from Beethoven to present.

593A / 493. Studies in Instrumental Music (3)
Prerequisite: MUS 374.
Seminars in instrumental music spanning at least two epochs of music history and covering at minimum, two of five categories: solo sonatas (excluding keyboard), chamber music, orchestral/symphonic, wind ensemble/band, and orchestral/chorus.
Letter grade only (A-F).

594A / 494. Music Learning Theory (3)
Investigates research and resulting methodology developed by Dr. Edwin Gordon as to how children learn music, including nature of music aptitude. Music Learning Theory Curriculum, incorporating Music Learning Theory in music classroom/rehearsal settings, and evaluation/assessment of student learning.
Letter grade only (A-F).

595. Special Topics in Music (1-3)
Prerequisite: Consent of Graduate Advisor and instructor.
Topics of current interest in various fields of music selected for special presentation and development.
Topics will be announced in Schedule of Classes. May be repeated to maximum of 6 units.
A. Kodaly Concept I: Methodology, Self-teaching and Conducting
   Corequisite: Consent of Instructor; MUS 595B must be taken concurrently.
   Examination of Kodaly approach to music education with particular emphasis on relevance and application to American music education. Special emphasis is given to sequence of concepts for levels K-3.
   Includes Self-teaching, folk song analysis and collection, conducting, games and movement.
B. Kodaly Concept II: Methodology, Self-teaching and Conducting
   Corequisite: MUS 595A.
   Examination of Kodaly approach to music education with particular emphasis on relevance and application to American music education. Special emphasis is given to sequence of concepts for levels K-3.
   Includes Self-teaching, folk song analysis and collection, conducting, games and movement.
C. Music and Dance Collaboration
   Corequisite: Consent of Instructor.
   Students create new works for music and dance. Collaborations may take form of improvisational, semi-improvisational, or through-composed creations developed by two dancers and two musicians working in group setting.

597A / 497. Special Topics in Music Composition (3)
Prerequisite: Consent of Graduate Advisor and instructor.
Topics of current interest in various fields of music selected for special presentation and development.
Topics will be announced in Schedule of Classes. Letter grade only (A-F).
B. Sound Design for Theatre
C. Advanced Film Scoring Project
D. Contemporary and Computer Music Notation
E. Composition with Interactive Technologies
G. From Poetry to Song: Composing Art Songs

598. Teaching Music in the University (1)
Prerequisite: position as TA or GA in the Bob Cole Conservatory of Music or consent of instructor.
Seminar on teaching methods, goals, and objectives; covers regulations and responsibilities; preparation of course materials; assessment and evaluation tools; technology in classroom. Required of first-term TAs and GAs with teaching responsibilities.
Letter grade only (A-F). May be repeated to maximum of 3 units.

599. Special Studies (1-3)
Prerequisite: Consent of Graduate Advisor and instructor.
Individual research or group investigation of selected topics.
Letter grade only (A-F). May be repeated to maximum of 6 units of credit.

600. Chamber Music (1)
Prerequisite: Consent of instructor
Letter grade only (A-F). May be repeated to maximum of 8 units. (2 hrs. reh.)
A. Brass Ensemble
B. New Music Ensemble
C. String Ensemble
D. University String Quartet
E. University Wind Quintet
F. University Brass Ensemble
G. Piano Ensemble
H. Vocal Jazz Ensemble II
J. Jazz Combo
K. Performance
L. Brass Chamber Music
M. Percussion Ensemble
N. Steel Drum Ensemble
O. Woodwind Chamber Music
P. String Chamber Music
Q. Women’s Chorus
R. Collegium Vocal
S. Collegium Instrumental
T. Saxophone Ensemble
U. Directed Accompanying
V. Studio Orchestra
X. World Percussion Group
Y. World/Traditional Music Performance
Z. University Percussion Quartet

601. Jazz Ensemble (1)
Prerequisite: Consent of instructor.
May be repeated for maximum of 8 units with different topics in same semester. (3 hrs. or more reh.)
A. Jazz Ensemble I
B. Jazz Ensemble II
C. Vocal Jazz Ensemble I

629. Individual Instruction for Music Majors (2)
Open to graduate students in music only. Private lessons in their major performance medium. Application must be made to Graduate Advisor of the Bob Cole Conservatory of Music during semester prior to registration. Registration is subject to conservatory’s approval.
Letter grade only (A-F). May be repeated to maximum of 12 units credit.
A. Baritone/Tuba
B. French Horn
C. Trombone
D. Trumpet
E. Harpsichord
F. Organ
G. Piano
J. Percussion
K. Double Bass
L. Cello
M. Viola
N. Violin
O. Guitar
P. Harp
Q. Voice
R. Bassoon
S. Oboe
T. Clarinet
U. Bass
V. Saxophone
W. Conducting
X. Composition

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640. Seminar in Music Theory (3)
Prerequisites: MUS 541 and consent of instructor. Intensive seminar focusing on analytical and theoretical issues in music. May center on individual composer, theoretical technique, or history of theory. Letter grade only (A-F). May be repeated to maximum of 6 units of degree credit.

645. Seminar in Advanced Composition (3)
Prerequisites: MUS 545 or consent of instructor. Free composition in more extended forms for various combinations of instruments including full orchestra and band. Letter grade only (A-F).

680. Seminar in Instrumental Music Teaching (3)
Prerequisite: Consent of instructor. Principles, procedures, and materials used in teaching instrumental music in public schools. Special attention given to methods and materials used in instrument classes. Letter grade only (A-F).

696. Research Methods (3)
Principles of research and writing about music, thesis preparation, and citation/bibliographic format. Serves as introduction to graduate study in music. Required of all MA and MM candidates in music. Letter grade only (A-F).

698. Thesis or Project (1-6)
Prerequisite: Advancement to Candidacy and consent of Director of Music History. Planning, preparation, research, and completion of thesis or project report or thesis. Enrollment limited to graduate candidates who have passed qualifying examination for their program and who have approved project/thesis proposal. Letter grade only (A-F).
NATURAL SCIENCES AND MATHEMATICS, COLLEGE OF

Dean: Laura Kingsford
Associate Dean for Curriculum and Instruction: Henry C. Fung
Associate Dean for Research and External Support: Andrew Z. Mason
Director for Instructional and Research Facilities: Robert L. Leechen
Director of Development: MaryAnne Horton
Administrative Services Manager: Henry Wu
Assistant to the Dean: Lane Olsen-Cooper
College Office: Faculty Office 5 (F05), Room 104
Telephone/FAX: (562) 985-4707 / (562) 985-2315
Website: http://www.cnsm.csulb.edu

Departments
Biological Sciences
Brian T. Livingston, Chair (562) 985-4806
Chemistry and Biochemistry
Jeffrey A. Cohlborg, Chair (562) 985-4911
Geological Sciences
Stanley C. Finney, Chair (562) 985-4909
Mathematics and Statistics
Robert A. Meria, Chair (562) 985-4721
Physics and Astronomy
Patrick F. Komesar, Chair (562) 985-4924
Science Education
Lauren Henriques, Chair (562) 985-4801

Student Access to Science and Mathematics Center
Co-Directors: Henry C. Fung, Amen Arroyo
Office: F05, Room 109
Telephone/FAX: (562) 985-4692 / (562) 985-5104

Introduction
In a world where science plays an increasingly important role and where an understanding of the sciences is essential for a participating and informed citizenry, the College of Natural Sciences and Mathematics provides quality educational opportunities in the life, physical sciences, and mathematics. Students are provided a broad-based, fundamental education in the natural sciences and mathematics, and are challenged to think critically, analytically, and creatively. Alumni of the College demonstrate that science and mathematics graduates are well-prepared to enter graduate and professional schools or to assume responsible positions in industry or government. Employment opportunities for students with backgrounds in science and mathematics are traditionally excellent.

The College is dedicated to the concept that a university has a special responsibility toward academic excellence and the advancement of knowledge. The faculty and staff of the Departments of Biological Sciences (including the former departments of Anatomy and Physiology, Biology, and Microbiology), Chemistry and Biochemistry, Geophysical Sciences, Mathematics and Statistics, Physics and Astronomy, and Science Education are committed to providing an outstanding educational experience for all students.

The College takes its responsibilities in teacher preparation in the sciences and mathematics very seriously. It participates in projects that provide a stronger, more rigorous, and more engaging set of teacher preparation programs at CSULB. With funding from the National Science Foundation, NASA, and the Knight Foundation, and in collaboration with Colleges of Education and Liberal Arts, Long Beach Unified School District, and Long Beach City College, science and mathematics faculty members are working to enrich and align teacher preparation coursework and internship opportunities.

Degrees Offered
Five departments within the College of Natural Sciences and Mathematics offer both the Bachelor of Science and Master of Science degrees. The Department of Science Education offers the Master of Science degree. The Departments of Chemistry/Biochemistry, and Physics/Astronomy also offer the Bachelor of Arts degree. Each degree has unique requirements and students should refer to the particular department's section of this Catalog to determine specific requirements. Ideally, all students participate in the Science Path to Success (for first time freshman) or EONS (Enrollment and Orientation in Natural Sciences and Mathematics for transfer students). Programs offered each June-July (for those entering in August-September) and January (for those entering in January). A department advisor will be available to assist in developing an appropriate academic plan consistent with career goals. During the semester, students may obtain academic advising by contacting the appropriate advisor(s) in the department offering the chosen degree program.

Student Research Opportunities
Faculty members in the College involve more than 200 students annually, both undergraduate and graduate, in a wide variety of research activities. Many of these students are supported by research grants, especially during the summer months. Each year many of these students present the results of their research at scientific conferences. It is not unusual for a student to co-author an article appearing in a major scientific journal.

The faculty’s commitment to these students is based on the knowledge that involvement in scientific research makes the study of science more real and provides strong motivation for the student to pursue a career in science. Since the anticipated need for scientists far exceeds the enrollment of science majors, we are committed to meeting the short-fall by making the study of science at CSULB as “real world” as possible.

Early each fall semester, the College of Natural Sciences and Mathematics in collaboration with its Jensen Student Access to Sciences and Mathematics Center hosts an Annual Research Symposium for students to present their findings of the research conducted in laboratories of CNSM faculty. This Symposium is open to the members of the University and greater Southern California community.
Jensen Student Access to Science and Mathematics (SAS) Center and Programs Offered

A student center (FOS-109) adjacent to the Dean's office is dedicated to promoting success for students who pursue majors in the College and those who take courses in its departments. The Center also facilitates several externally funded programs including the National Institutes of Health (MARC, MBRS-RISE, and Bridges to the Baccalaureate), and National Science Foundation (CRUI, AMP, and Noyce). The Center provides space for studying, tutoring, mentoring, computer access, and meeting sites for student-centered activities. The SAS Center also serves as the resource center for health profession advising, graduate school opportunities, and summer research opportunities and fellowships.

SAS coordinates and assures effective integration of all of our mentoring, enrichment, and outreach programs - including those based on undergraduate research. SAS is dependent on external funding for its success.

There are a host of activities and programs that strive to involve students and promote their success in science and mathematics. Several federally funded programs focus on underrepresented students and address the diversity of our campus. In addition to fostering involvement of students in science and mathematics, they feature an ethnic identity that provides a unique encouragement for 260 of our science majors.

MARC/MBRS Programs. The College hosts both programs funded by The National Institutes of General Medical Sciences: Minority Access to Research Careers (MARC) and Research Institute for Scientific Enhancement (MBRS-RISE). Both programs have the goal of increasing the number and quality of students from specifically targeted groups/populations who pursue careers in scientific research. The 30 students supported by these programs can conduct cutting-edge biomedical research projects in conjunction with a member of the faculty. Virtually all of these students continue study toward advanced degrees in science. The MARC program is an honors program (SPA 3.0) for upper division students, while the MBRS-RISE program can support students as early as the freshman year and also upper division transfer students. As a result of their research activities, most students present papers at scientific conferences and often co-author publications appearing in leading scientific journals. In addition to research involvement, MARC/MBRS-RISE students are active in various outreach and mentoring activities.

Beckman Scholars Program. In 2003, CSULB was selected as one of 13 institutions nationwide to be the recipient of these prestigious Beckman Scholars Awards. The goal of the Beckman Scholars Program at CSULB is to advance the education, research training, and personal development of students who have the potential to achieve distinction in their academic field, as well as become outstanding leaders in their careers and professions. Support is provided for four students working toward bachelor's degrees in chemistry, biology, or physics in the form of student stipends, laboratory supplies and funds for travel to appropriate scientific meetings. In their research experience, students will receive rigorous training by faculty members in the use and applications of a variety of different techniques involved in nucleic acid research, protein biochemistry, biophysics, etc. The program will also provide counseling and career opportunities for entrance into higher degree programs in the sciences.

Bridges to the Baccalaureate Program. This program is funded by the National Institutes of General Medical Sciences and its goal is to provide historically underrepresented community college students with research opportunities in the biomedical sciences and to facilitate their seamless transition into baccalaureate and doctorate granting institutions.

G-DEP Program. The Geoscience Diversity Enhancement Program (G-DEP) is an innovative, collaborative partnership between CSULB Departments of Geological Sciences, Geography, and Anthropology, and several community colleges and local high schools to improve the research and educational experiences of underrepresented students in geoscience (geologic, physical geographic, archaeological and environmental sciences disciplines). The goals of G-DEP are (1) to increase the number of underrepresented students who have a broad educational and research experience in the geosciences; (2) enhance the quantity and quality of Geoscience research and teaching by faculty members from the University, community colleges, and high schools; (3) increase the awareness by community colleges and high school students of the field of geoscience, and related research careers and educational requirements; (4) create a seamless transition of underrepresented students from community colleges to study geosciences at the undergraduate level; and (5) increase the number of geoscience majors who are retained in their disciplines.

LS-AMP Program. The College hosts the National Science Foundation's Louis Stokes Alliance for Minority Participation (LS-AMP) program. Its goal is to improve the mathematics and science preparation for historically underrepresented students majoring in the sciences, mathematics, and engineering and to enhance their opportunities for graduate studies.

Noyce Program. The CSULB Robert Noyce Scholarship Program, funded by the National Science Foundation, encourages talented science, technology, engineering, and mathematics (STEM) majors to become K-12 mathematics and science teachers. This program is responding to the critical need for STEM teachers by encouraging CSULB students to pursue teaching careers in high-need school districts and increasing the number of teachers with strong STEM content knowledge. In an effort to address this need, Noyce provides scholarships for CSULB students to complete their bachelor's and/or a single subject credential in mathematics or science. Noyce Scholars receive $15,000 per year for two years maximum. Scholarship recipients, in return, must serve two years as a mathematics or science teacher in a high-need school district within six years following graduation or completion of the program.

Science Enrichment and Peer Mentor Programs. This program is designed to provide first-time freshmen in the College of Natural Sciences and Mathematics with the guidance and personal support that are vitally important to their success at CSULB. This program allows students to enroll in classes appropriate for their major and background,
provides them with enriched learning experiences, and peer role models during their first academic year. The Science Enrichment Program begins the week prior to the start of the fall semester. In order to be part of the program, students must be declared science or math majors and be enrolled in the preprofessional University 100 course. Peer mentoring provides our college students opportunities for tutoring to strengthen their academic and communication skills.

Honors in Biological Sciences, This program was initiated by a grant from the Howard Hughes Medical Institute. Open to students with majors or career goals in the life sciences or related fields, it features a honors curriculum including courses in bioinformatics and research design as well as undergraduate research leading to a senior honors thesis and presentation at scientific conferences.

Health Professions Advising Office (HPAO). The Health Professions Advising Office (HPAO) provides a wide range of advising and support services designed to meet the needs of CSULB students as they navigate through the often-complex process of preparation and application to professional schools. The HPAO offers individual counseling, academic planning, application assistance, and many other resources designed specifically for students interested in medicine, dentistry, veterinary, pharmacy, optometry, podiatry, chiropractic, physician assistant, physical therapy, and graduate nursing.

The Electron Microscopy Facility
The study of the natural sciences requires observation of the macroscopic, microscopic, and sub-microscopic character of our universe. With this in mind, the College has established a modern Electron Microscope (EM) Facility which is used by several undergraduate courses in addition to undergraduate and graduate research projects. The pride of the EM Facility is the Joel-1200EXII transmission electron microscope (TEM), obtained through a National Science Foundation instrumentation grant. The Joel-1200EXII has a resolution of 0.14 nm and a magnification range from 50 to 1,000,000 times. The EM Facility also houses additional TEMs and an AMR 1000 scanning electron microscope. The latter will be upgraded to include analytical capabilities.

Student Organizations
The College of Natural Sciences and Mathematics Student Council sponsors annual events including: a fall open house and spring picnic, Science Career Days, and the Nobel Laureate Speaker series. Six departmental associations plan various social and academic-related programs that offer peer support, as well as opportunities for students and faculty to interact outside of the classroom.

Four other student-led groups offer activities for students who are planning careers in one of the health professions (medicine, dentistry, etc.). The Organization of PreProfessional Students (T.O.P.P.S.) and Association of Pre-Dental Students (A.P.D.S.) have speaker series with representatives from professional schools, the group also holds social functions and provides a peer advising network. Chicanos/Latinos for Community Medicine (CCM) sponsors community outreach activities, an annual workshop on interviewing techniques, and an annual conference on applying to medical/professional schools.

Southern California Marine Institute (SCMI)
The Institute operates a number of research vessels, and provides the mechanism whereby students from CSULB Ocean Studies Consortium campuses at Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, San Diego, and San Marcos, as well as Occidental College and the University of Southern California can share courses and degree programs. In addition, Institute staff conduct research and facilitate the research of CSU faculty. The major focus is on harbors and coastal areas, with emphasis on environmental issues.

California Desert Studies Consortium
CSULB participates in the California Desert Studies Consortium, which has a Desert Studies Center in the heart of the Mojave Desert at Soda Springs near the town of Baker. The surrounding area consists of typical Mojave Desert with dry lakes, sand dunes, and mountain ranges; it is the gateway to Death Valley and the Kelso Dunes. The Center has excellent facilities for teaching field classes and for research. California State University at Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, and San Bernardino are the Consortium members.

Institute for Integrated Research in Materials, Environment, and Society (IRIMES)
IRIMES promotes and enhances educational and research opportunities for faculty, graduate and undergraduate students and the greater community at large. The major goals and accompanying benefits include research and scholarly activity, development of instructional programs to provide student training and research; and contribution to community service. IRIMES promotes cross-application of analytical techniques; facilitates access to state-of-the-art instrumentation for researchers; sponsors colloquia, lectures, and conferences; promotes interdisciplinary workshops and collaborations with other universities to create research possibilities for faculty and students; promotes educational programs and research opportunities for CSULB undergraduate and graduate students; provides analytical services for scientific community; and serves as a core CSU facility for elemental microanalysis.

CSUPERB Core Facility for Micro-Chemical Elemental Analysis (FEMCA)
California State University Program for Education and Research in Biotechnology (CSUPERB) has created a core facility for elemental micro-chemical analysis (FEMCA). FEMCA's principal goal is to enhance the educational and research opportunities of students and faculty members in the CSULB system who wish to pursue novel research in biotechnology. The facility builds on strong interdisciplinary ties between the biological, chemical, and physical sciences. FEMCA is housed within IRIMES for molecular and elemental analysis; scanning, transmission and atomic force microscopy; as well as purpose-built clean room facilities for organic and inorganic extractions and sample preparation.
Center for Education in Proteomics Analysis (CEPA)

A grant from the W.M. Keck Foundation and supplemental funds provided by the College of Natural Sciences and Mathematics at CSULB enabled purchase of an Applied Biosystems 4800 Matrix Assisted Laser Desorption Ionization, tandem Time of Flight Mass Spectrometer for protein and polypeptide analysis and identification. CEPA is part of the RMESR Facility for Elemental Micro Chemical Analysis (EMCA), and is the only one of its kind in the USA that focuses on the use of this technology for undergraduate training and research.

Courses (NSCI)

LOWER DIVISION

190A. Experience Success Program - 1 (1)
Prerequisite: Open to freshmen only. Learn and adopt organizational time management study and test-taking skills. Increase your awareness of science and mathematics related career options. Make connections with CNSM programs, resources, and people.
Letter grade only (A-F). (Seminar 1 hr.)

190B. Experience Success Program - 2 (1)
Prerequisite: NSCI 190A. Explore science/math careers via job shadowing experiences and community based mini internships. Learn about summer internship and research opportunities.
Letter grade only (A-F). (Seminar 1 hr.)

200. Introduction to Computer Methods in Science (2)
Prerequisites: Major in the College of Natural Sciences and Mathematics, and MATH 119A or MATH 122 or consent of instructor. Introduction to computer methods used in collecting, analyzing, and presenting scientific data. Introduces word processing, spreadsheet analysis, and elementary programming.
Credit/No Credit grading only. (Lecture 1 hr., discussion 1 hr.)

UPPER DIVISION

308. Community and Careers in the Health Professions (3) S
Prerequisites: Completion of Foundation Courses, one or more Explorations Courses, upper division status, and 3 units of Natural Sciences coursework.
Service-learning, capstone course developing students' critical thinking and analyzing issues on health care delivery including biomedical ethics. Students are required to provide service in a community health care agency. Provides understanding of community needs and fosters greater civic responsibility.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

309I. Women in Science (3) S
Prerequisites: Completion of the G.E. Foundation, six units of general education science courses, upper division standing, and consent of instructor.
Experiences of women in natural science, engineering, and mathematics and obstacles preventing easy access to these careers for women. Includes women's historical roles in science, contributions made, and contributions ignored or downplayed by peers. Disciplines include science, history, and sociology.
Letter grade only (A-F). Same course as WGST 309I. Not open for credit to students with credit in WGST 309I or WGST 309I. (Lecture 3 hrs.)

375L. Science and Society (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing, 3 units of general education natural science courses.
Examining recent discoveries in life and physical sciences impacting our lives. Examining technological advances, discussion of what is science, how is it done, and is it beneficial or destructive? Recent discoveries and underlying basic science will also be critically evaluated.
Letter grade only (A-F). (Lecture 3 hrs.)

490. Special Topics in the Natural Sciences (1-3)
Prerequisites: At least upper division standing in the College of Natural Sciences and Mathematics and consent of instructor. Faculty and student discussions and analysis of a current topic in the natural sciences.
May be repeated to a maximum of 8 units with different topics. Letter grade only (A-F). (Lecture 1-3 hrs.)

492. Internships in Natural Science (3)
Prerequisites: Major in the College of Natural Sciences and Mathematics, completion of 9 units of upper division science coursework, a 2.5 GPA overall or 2.75 GPA in the student's major, and consent of instructor prior to registration.
Qualifying students placed in a major or career-related assignment in private industry or at a public agency. May be placed in either a volunteer or paid work assignment. Research and intern positions may be used for students interested in pursuing a career in science education in K-12 schools.
Coding assignments will be arranged through the Career Development Center and the instructor. Final written report required. Class attendance and internships to be arranged by the instructor. Minimum of 120 hours of field experience required. Credit/No credit grading only. May be repeated to a maximum of 6 units.

498. Investigations in Natural Sciences and Mathematics (1-3)
Prerequisites: Consent of Instructor. Supervised study of current topics in the natural sciences or mathematics by a faculty member in the College of Natural Sciences and Mathematics.
Letter grade only (A-F).
NURSING
College of Health and Human Services

Director of Nursing: Louise Hackabay
Director of Graduate Program: David Kumrow
Director of Undergraduate Program: Beth Koey
Department Office: Nursing Building (NUR), Room 17
Telephone: (562) 985-4466

Faculty: Margaret Brady, Lyn Callahan, Natalie Chesser, Ellen Crooke, Rebecca Dahl, Kathryn Daehn, Carmen Galang, Louise Hackabay, Loyal Johnson (Emeritus), Itho Koey, Bonnie Kolopik (Emerita), Fadilah Kheany, David Kumrow, Ruth G. Mullins (Emerita), Barbara J. Nohr, Nancy Oliver (Emerita), Sharon L. Roberts (Emerita), Judy E. Smith, Christine Talmaide (Emerita), Barbara Whitley.

Students desiring information should contact the department office for dates of opening counseling sessions.

Career Possibilities
Office Nurse • Nurse Consultant • Public Health Nurse • School Nurse • Clinical/Staff Nurse • Industrial Nurse • Private Duty Nurse • Home Health Care Nurse • Clinical Specialist • Nurse Practitioner • Armed Forces Officer • Nurse Supervisor • Teacher • Training Director • Public Health Education (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Nursing

The baccalaureate program offers courses that prepare the student to become a professional nurse. Two distinct categories of students are eligible for admission: The "basic student" who enters the University without having completed a first level nursing program, the "registered nurse student" who, having completed a course of study at the first level, desires further study to expand her or his nursing capabilities to the BSN professional level.

Though each category of student enters at different levels, the terminal objectives of the nursing program are the same for all groups. The "basic student" is eligible to take the examination for licensure to practice as a registered nurse upon completion of the requirements. All graduates are recommended for certification as a public health nurse in the State of California. The program is accredited by the California State Board of Registered Nursing, and the Commission on Collegiate Nursing Education (Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036-1120, phone: 202-887-6731).

The purpose of the bachelor's of science program in nursing is to prepare graduates to function as professional nurses in a variety of settings. Graduates are expected to have acquired foundations for continuing professional development. The curriculum is formulated to help the student develop understanding of self and others, stimulate intellectual curiosity and to develop an ability to work with colleagues to identify and resolve the health issues of individuals and families in a changing society. The professional nurse, while able to assess problems and intervene where health deviations exist, is committed to the role of maintaining health and preventing illness in self and others.

Bachelor of Science in Nursing – Basic
(code NRSGBS01) (135 units)

Admission Under Impaction

To be eligible for admission to the Nursing (Basic), applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have completed the following prerequisite courses or their equivalent(s), each with a minimum grade of "C": BIOL 207 and 208, MICR 200, CHEM 140 (not included in the Enrollment Plan). Applicants must submit a supplemental application to the department by February 1 for the fall semester or by September 15 for the spring semester. Applicants must complete a test that assesses ability for logical thinking and problem solving (offered by the department at the start of each semester) before their application will be considered. Each applicant must schedule a personal interview with a designated member of the nursing faculty. Applicants must earn a minimum GPA of 2.5 in all Science and General Education pre-requisite courses. Applicants must complete the CSU General Education categories Quantitative Reasoning, Oral Communication, College Composition, and Critical Thinking using courses selected from a list provided by the CSULB Nursing Dept. (see www.csulb.edu). The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission on a space-available basis according to the faculty's judgment of their ability to succeed in the program.

Note: Late fees are charged for student supplies used throughout the nursing program.

Requirements

Prerequisite Natural Science Prerequisites: CHEM 140, BIOL 207, 208, MICR 200, or equivalent.
Prerequisite General Education Courses: English Composition, Quantitative Reasoning, Oral Communication, and Critical Thinking.
Support courses: BIOL 304, 305, NUTR 339, PSY 100, and SOC 100.
Criminal background check, health insurance and malpractice insurance are required for clinical coursework.
To be recommended to the California Board of Registered Nursing (BRN) to take the licensure exam as
a Registered Nurse, students must successfully complete the RN Prelicense Exit Assessment. The results of this assessment will not impact the conferring of the bachelor's degree.

Bachelor of Science in Nursing — Registered Nurse (code NRSGBS02) (120 units)

Admission Requirements
Registered Nurse Applicants are required to apply for admission to the University and do the following:
1. Hold a current license or be eligible for license to practice in California;
2. Graduation from an Accredited Associate Degree program or evaluation of diploma program for equivalency by an Accredited Associate Degree program;
3. Have 56 to 70 transferable units;
4. Maintain malpractice and health insurance throughout clinical coursework and submit to a criminal background check;
5. Attend a group counseling session for RN students and complete the RN application form;
6. Submit official transcripts of any previous college work to the Nursing Department;
7. Fulfill the Graduation Writing Assessment Requirement (GWAR) either prior to admission or within the first semester in the program.
Graduates of diploma schools of nursing are urged to seek information/admission to a community college that offers the opportunity to earn academic credit for a diploma nursing program.

Requirements
Support Courses: CHEM 140, BIOL 304, and an upper division statistics course (PSY 310 or EDP 419).
Nursing Courses: NRS 309, 312, 312L, 400, 402, 402L, 450, 451 and one of the following groups: 452A and 453L or 462 and 454L or 452D and 456L.

Course of Study
A specific combination of general education, prerequisites, nursing and elective courses totaling 129 units for the basic program and 120 units for the R.N. program are required for graduation. All nursing courses in the nursing program must be taken in sequence. In general, the number assigned to each nursing course indicates where it occurs in the sequence. Admission to the first course is by application which will be accepted upon successful attainment of the criteria listed above. The last date to file applications for each semester will be available in the Nursing Department. Progress in the nursing major requires that students maintain a cumulative 2.0 GPA on all units attempted and attain a minimum of a "C" grade in each of the nursing courses as well as all required support courses. The student who earns less than a grade of "C" must repeat that course prior to being admitted to the next course in the nursing course sequence. A nursing course may be repeated one time. The nursing sequence of courses requires a minimum of six semesters for the "basic student." A break in the sequence of nursing courses necessitates readmission on a space-available basis.

Graduate Programs

Master of Science in Nursing
The master of science degree is available to qualified students who desire advanced preparation in a variety of clinical specialty areas. The program is approved by the Board of Registered Nursing, and accredited by the Commission on Collegiate Nursing Education (1 Dupont Circle, NW, Suite 530, Washington, DC, 20036-1120; phone: 202-867-6751).
The philosophy of graduate nurse education is that the practice of nursing is constantly changing as health needs and health delivery systems are altered. Integral to nursing is an ability to work effectively and cooperatively with other disciplines and community services to promote health.
The focal point in this curriculum is the nursing process with strong components of clinical medical knowledge complemented by behavioral science concepts. Courses are interdependent and have been structured to provide clinical depth in the area of student's choice.
The graduate will have the knowledge and skill to function as an advanced practice nurse in one of several specialty areas. Nursing research skills and the application of nursing theory to practice are major emphases of the curriculum. Each applicant should request a copy of the official transcript of all college course work be sent to the department graduate program of nursing in addition to the copies required by the Office of Admissions and Records.

Prerequisites
1. A bachelor's degree in nursing preferred: A bachelor's degree in a related field will be considered;
2. Current license to practice as a registered nurse in California;
3. PHN Certificate needed for concurrent MSN/MPP program;
4. Admission to graduate standing in nursing at the University;
5. An upper division or graduate course in statistics;
6. A physical assessment course which includes clinical practice (all specialty areas except concurrent MSN/MPP and MSN/MS/HC);
7. An upper division or graduate level course in pathophysiology (all specialty areas except concurrent MSN/MPP and MSN/MS/HC);
8. An overall GPA of 2.75 or better in the last 60 units of the undergraduate BSN Program.

Advancement to Candidacy
1. Satisfy the general University requirements for advancement to candidacy;
2. Completion of all graduate deficiencies;
3. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
4. Approval of the department graduate advisor and Director of Graduate Studies and Research, College of Health and Human Services.
The M.S. in Nursing requires completion of the required courses in one of the following specialty areas: Adult-Geriatric, Family, Pediatric, Psychiatric-Mental Health, Women's Health Care.

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Master of Science in Nursing (code NRSCGS01)

Core Requirements
1. Completion of a minimum of 38 units in approved upper division and graduate courses.
2. An overall GPA of 3.0 or better;
3. Completion of an approved thesis, directed project or comprehensive examination.

Nurse Practitioner Specialty Areas: Family, Pediatric, Adult-Geriatric, Women’s Health Care, and Psychiatric-Mental Health

Requirements
Core courses: NRSG 510, 520, 530, 530L, 540, 550, 560, 596.
Theorists for Advance Practice Nursing I and II: NRSG 667 and 668, or 682 and 683, or 684 and 685, or 686 and 687, or 688 and 689
Clinical Studies in Advance Practice Nursing I-V: NRSG 667AB and 668AB, or 682AB and 683AB, or 684AB and 685AB, or 686AB and 687AB, or 688AB and 689AB, or 692 or 695 or 698

Master of Science in Nursing/Master of Public Health (code NRSGMN01)

The Departments of Nursing and Health Science offer a concurrent Master of Science and Master of Public Health degree available to qualified students who desire advanced preparation in the area of public health nursing with a practice focus of primary prevention, illness prevention, and health promotion. The concurrent program leading to both degrees represents the core accreditation requirements of each degree. Coursework is integrated between the two Departments in each semester in order to provide an intense learning experience. The Master of Science and Master of Public Health (Health Education Option) provides the opportunity for students to increase competence in designing, implementing, and evaluating behavior change programs in preparation for serving in various health agencies. The curriculum will prepare graduates for eligibility for a California Clinical Nurse Specialist certification and for taking the national Clinical Nurse Specialist certification examination.

Prerequisites
1. An ethics course
2. A cultural diversity course
3. Graduate Record Examination (GRE) - verbal and quantitative scores.
4. Current professional resume describing applicant’s relevant experience.

Requirements
1. A minimum of 57 units of approved Nursing and Health Science upper division and graduate level courses including: HSC 500 or MCRG 429; HSC 503 or BIOL 565; HSC 508, 529, 535, 570, 581, 624, 625; NRSG 560, 565, 570, 671, 672, 670L, 671L, 672L; NRSG 596 or HSC 696; NRSG 698 or HSC 697.
2. An overall GPA of 3.0 or better in all courses
3. A thesis or a directed project (Department of Health Science only)
4. If a student after entering the concurrent MSN/MPH program returns to a single degree program, all requirements for the single degree program must be met.

Master of Science in Nursing/Master of Science in Health Care Administration (code NRSGMC01)

The Department of Nursing and Health Care Administration Programs offer a concurrent Master of Science in Nursing and Master of Science in Health Care Administration dual degree available to qualified students who desire advanced preparation in the areas of nursing and health care administration with a practice focus as Advanced Practice Nurses in administration. The concurrent program leading to both degrees represents the core accreditation requirements of each degree. Coursework is integrated between the two degree programs each semester in order to provide an intense learning experience.

The philosophy of graduate nurse education is that the practice of nursing is constantly changing as health needs and health delivery systems are altered. Integral to nursing is an ability to work effectively and cooperatively with other disciplines. The joint Master of Science in Health Care Administration and the Master of Science in Nursing provides the opportunity for students to specialize as advanced practice nurses with emphasis in administration and increasing competence in designing, implementing, and evaluating programs in preparation for serving in various health agencies. An important career path for advanced practice nurses is as nurse executive in the diversified segments of the health care industry including entrepreneurial activities. Courses are interdependent and have been structured to provide clinical depth in the areas of nursing and administration.

Each applicant should request that a copy of official transcript of all college courses be sent to the Nursing Department Graduate Advisor and to the Office of Admissions and Records.

Prerequisites
1. Public Health Nurse Certificate, or eligibility for certificate in California.
2. An overall GPA of 3.0 or better; an upper division nursing GPA of 3.0 or better and a science GPA of 3.0 or better. Students who fall below these averages will be evaluated on an individual basis.
3. Submission of quantitative and verbal scores from the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT).
4. Current professional resume describing the applicant’s relevant experience.

Advancement to Candidacy
A joint committee, consisting of Nursing and Health Care Administration faculty involved in the program, will review files and make a determination to advance the candidate to graduate status.
Requirements for Completion
1. A minimum of 56 units of approved Nursing and Health Care Administration upper division and graduate level courses including: The Program of Study: NRSG 559, 560, 596; 676; 676L; 677; 677L; 678; 678L; 692 or 696, HCA 502, 505, 510, 524, 530, 535, 550.
2. An overall GPA of 3.0 or better in all courses.
3. Directed project or a thesis.
4. *Graduate degrees obtained previously may be accepted toward meeting a portion of the unit requirements of the concurrent MSN/MSHCA degree program.
5. If a student after entering the concurrent MSN/MSHCA program returns to a single degree program, all requirements for the single degree program must be met.
   * 60% of units must be earned in residence.

Master of Science in Nursing, Option in Clinical Nurse Specialist – Adult (code NRSGMS02)

This program is designed to expand the scope of nursing practice within acute and chronic care settings. The courses are designed to increase the graduate's clinical skills and knowledge in order to enhance the opportunities for career advancement and quality patient care. The programs was developed to allow each student to identify and define their clinical specialization in acute and chronic care areas such as perioperative, oncology, respiratory, cardiovascular, neurological, medical surgical, or rehabilitative nursing. The programs will prepare graduates to practice in collaborative and leadership roles within hospitals, clinics and community health care organizations as advanced practice nurses. The curriculum will prepare graduates for eligibility for taking the national clinical nurse specialist certification examination.

Prerequisites
   Bachelor's degree in nursing preferred. A bachelor's degree in a related field will be considered if the applicant has completed an upper division public health nursing course and meets all other prerequisites.
   1. Current license to practice as a registered nurse in California.
   2. Admission to graduate standing in nursing at California State University, Long Beach.
   3. Upper Division or graduate course in statistics.
   4. Physical assessment course which includes clinical practice taken within the past five years.
   5. Upper Division course in pharmacology.
   6. Overall GPA of 2.75 or better in the last 60 units of the undergraduate BSN Program.

Requirements for Completion
1. A minimum of 47-48 units of approved upper division and graduate level courses including:
   Core Requirements: NRSG 511A, 521A, 530, 530L, 540, 550, 560, 596
   Concurrent Requirements: NRSG 556A, 556B, 556L
   Clinical Courses Requirements: NRSG 673, 673L, 674, 674L, 675, 675L
   Cumulative Course Requirement: NRSG 698 or 692
2. An overall GPA of 3.0 or better in graduate coursework.
3. Directed project or thesis.

Nurse Practitioner Certificate (code NRSGCT01)

A Nurse Practitioner Certificate is awarded to students who complete 31 units of post-masters course work in one of four Nurse Practitioner specialty areas. Applications from students who hold a masters degree in nursing as a nurse practitioner will be reviewed individually.

Admission
1. Copies of transcripts of Baccalaureate in Nursing and Masters in Nursing degrees.
2. Copy of State of California RN licensure.
3. Three letters/checklists of references
4. Completion of the Department of Nursing Graduate Program Application.

Family Nurse Practitioner

Requirements
   Completion of NRSG 510, 520, 530, 530L, 540, 550, 560, 682, 682 A&B, 683, 683 A&B.

Pediatric Nurse Practitioner

Requirements

Adult-Geriatric Nurse Practitioner

Requirements
   Completion of NRSG 510, 520, 530, 530L, 540, 550, 560, 696, 696 A&B, 697, 697 A&B.

Psychiatric-Mental Health Nurse Practitioner

Requirements
   Completion of NRSG 510, 520, 530, 530L, 540, 550, 560, 688, 688 A&B, 689, 689 A&B.

Women’s Health Care Nurse Practitioner

Requirements
   Completion of NRSG 510, 520, 530, 530L, 540, 550, 560, 688, 688 A&B, 689, 689 A&B.

School Nurse Credential (code 600)

The Post-Baccalaureate School Nurse Services Credential Program consists of 24 units of specific coursework that prepare nurses who have completed a bachelor's degree in nursing to be effective providers of health care within the school setting. Students will develop practical and theoretical expertise in the field of school nursing. This allows them to initiate, coordinate, maintain and evaluate a comprehensive health program so that children's ability to learn in school is maximized. The Post-Baccalaureate School Nurse Services Credential Program at California State University, Long Beach was developed for nurses who seek only the credential.

Admission Requirements
1. Completion of Post-Baccalaureate Application for School Nurse Services Credential Program.
2. Official transcript of Baccalaureate degree in nursing from an accredited university. Candidates must have a minimum overall GPA of 2.75 in their undergraduate program.
4. Copy of current unexpired cardiopulmonary resuscitation card (adult, child, and infant) and copy of unexpired first aid card.
5. Basic Physical Assessment course completed within 5 years.
6. A one-page written statement describing motivation and purpose for obtaining the Post-Baccalaureate School Nurse Service Credential.
7. Three letters of recommendation.

**Requirements**

Completion of 24 units of course work with a grade of "B" or better.

Required: (18 units): NRSG 533, 536 and 536L, H SC 430, EDSP 350, C D 373.
Elective: 6 units from the following: FCS 409, EDP 432, H SC 427, H SC 460, C D 432.

**Health Services (School Nurse) Credential (code 600)**

The Health Services (School Nurse) credential is required of registered nurses working in the California school system.

**Admission**

1. Copies of transcripts of Baccalaureate in Nursing and Masters in Nursing (with a Pediatric Nurse Practitioner or Family Nurse Practitioner specialty) degrees;
2. Copy of State of California RN licensure and entitlement as a Nurse Practitioner;
3. Three letters/checklists of reference;
4. Completion of the Department of Nursing Graduate Program Application.

**Requirements**

Completion of the following with a grade of "B" or better: NRSG 680C and 680L, H SC 430; CD 373.

**Courses (NRSG)**

**LOWER DIVISION**

199. Special Topics (3)
Overview of health care professions with a primary focus on the nursing profession, including nursing history, educational preparation and the roles of nurses, ethics, patients’ and nurses’ Bill of Rights, medical terminology and math for health care professions.
Letter grade only (A-F).

200. Introduction to Nursing Health Care (3)
Prerequisites: Admission to the nursing program. Corequisites: NRSG 200L, 200, BIOL 304, 305, NUTR 339 or consent of instructor. Support courses: BIOL 304 and SOC 100 or PSY 100.
Development of concepts of high level wellness and self care. Introduction to physical and social science principles which provide basis for beginning level nursing theory and practice. Introduction to nursing process and framework for nursing practice.
Letter grade only (A-F). (Lecture-Discussion, 3 hours)

200L. Introduction to Nursing Health Care Clinical (3)
Prerequisites: Admission to the nursing program. Corequisites: NRSG 200, 200L, BIOL 304, 305, NUTR 339 or consent of instructor. Support courses: BIOL 304 and SOC 100 or PSY 100.
Designed to provide guided utilization of beginning level theory and skill in a simulation laboratory. Opportunity provided to experience clinical practice based on concepts of nursing process and framework for nursing practice.
Credit/No Credit grading only. Credit reflects work at the level of "B" or better. May be repeated to a maximum of 8 units. Course fee may be required. (Laboratory 9 hours)

202. Health Care Communication (2)
Prerequisites: Admission to the nursing program, or consent of instructor. Corequisites: NRSG 200, 200L, BIOL 304, 305, NUTR 339 or consent of instructor. Support courses BIOL 304 and SOC 100 or PSY 100.
Conceptual foundations for the nurse-client relationship, therapeutic communication, responding to special client needs and professional issues within a clinically oriented cultural framework.
Letter grade only (A-F). (Lecture-Discussion, 2 hours)

250. Intermediate Nursing Health Care (3)
Prerequisites: NRSG 260, 260L, BIOL 304, 305, NUTR 339, or consent of instructor. Corequisite: NRSG 250L, 250, 250L, 312, 312L, or consent of instructor; satisfactory level ATI testing including remediation as appropriate. Support courses: SOC 100 or PSY 100.
Development of intermediate level theory of physical and psychosocial wellness and accountability. Application of recognized physical and social science principles and current research findings to intermediate level nursing theory and skills essential to actualization of nursing process.
Letter grade only (A-F). (Lecture-Discussion 3 hours)

250L. Intermediate Nursing Health Care Clinical Studies (3)
Prerequisites: NRSG 250, 250L, 250, BIOL 304, 305, NUTR 339, or consent of instructor. Corequisites: NRSG 250L, 312, 312L, 260L, 260L, or consent of instructor. Support courses: SOC 100 or PSY 100.
Guided laboratory experience to assist in synthesizing intermediate theory and gaining skills in application of selected nursing process activities in simulation and in direct patient care.
Letter grade only (A-F). (Laboratory 9 hours) Course fee may be required.

260. Adult Health Care (2)
Prerequisites: NRSG 260, 260L, 260, BIOL 304, 305, NUTR 339, or consent of instructor. Corequisites: NRSG 260L, 250, 250L, 312, 312L, or consent of instructor. Support courses: SOC 100 or PSY 100.
Study of unique needs of aging population. It includes study of gerontological concepts, principles, and theories. Focus on health promotion and delivery of care within framework of nursing process.
Letter grade only (A-F). (Lecture-Discussion)

260L. Adult Health Care Clinical Studies (2)
Prerequisites: NRSG 260, 260L, 260, BIOL 304, 305, or consent of instructor. Corequisites: NRSG 250L, 250, 250L, 312, 312L, or consent of instructor. Support courses: SOC 100 or PSY 100.
Provides experience in applying nursing process to care of aging client in a variety of settings and opportunity for validation of gerontological concepts, principles and theories.
Letter grade only (A-F). (Laboratory 9 hours)

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309. Dimensions of Professional Nursing (2)
Prerequisites: Admission to the ADN to BSN program. Support courses: CHEM 140, BIOL 304.
Focuses on analysis of transition from a technical to a professional baccalaureate prepared nurse. Content includes: program and University orientation, role changes, ethics, dimensions of nursing, and training in completion of a research based paper and presentation.
Letter grade only (A-F). (Lecture-Discussion)

312. Health Assessment (2)
Prerequisites: NRSG 200, 200L, 202, NUR 339, BIOL 304, 305, or consent of instructor. Corequisites: NRSG 250, 250L, 260, 260L, 312, or consent of instructor. Support courses: SOC 100 or PSY 100.
Covers techniques of history taking and physical examination of healthy individuals. These techniques are used by nurse in identification of patient problems.
Letter grade only (A-F). (Laboratory-Discussion)

312L. Physical Assessment for Nurses Lab (1)
Prerequisites: NRSG 200, 200L, 202, NUR 339, BIOL 304, 305, or consent of instructor. Corequisites: NRSG 250, 250L, 260, 260L, 312, or consent of instructor. Support course: SOC 100 or PSY 100.
Provides opportunity to apply techniques of history taking and physical examination which are used by nurses in identification of patient problems. Includes demonstration and practice of physical assessment methodology.
(Technical activities and laboratory 2 hours, 1 hour independent student practice). Letter grade only (A-F).

331. Critical Care Nursing (2)
Prerequisites: PSY 100, SOC 100, NRSG 250, 250L, 260, 260L, 312, 312L, BIOL 304, or consent of instructor. Corequisites: NRSG 301, 331L, 341, 341L, or consent of instructor. Support courses: NRSG 301, 331, 341, 341L, or consent of instructor. Satisfactory level AT1 testing including remediation as appropriate.
Advanced study of acute and critically ill patient. Focuses on complex knowledge required to provide comprehensive nursing care to patients and families experiencing critical illness or injury. Cultural needs of patients and families are emphasized.
Letter grade only (A-F). (Lecture-Discussion)

331L. Critical Care Nursing Clinical Studies (3)
Prerequisites: PSY 100, SOC 100, NRSG 250, 250L, 260, 260L, 312, 312L, BIOL 304, or consent of instructor. Corequisites: NRSG 301, 331, 341, 341L, or consent of instructor. Satisfactory level AT1 testing including remediation as appropriate.
Focuses on application of content presented in NRSG 331 in clinical setting. Emphasis on critical thinking and collaboration with other members of health care team. Will gain experience using advanced technology in this specialized area of nursing.
Letter grade only (A-F). (Laboratory 9 hours)

341. Psychiatric/Mental Health Nursing (3)
Prerequisites: PSY 100, SOC 100, NRSG 250, 250L, 260, 260L, 312, 312L, BIOL 304, or consent of instructor. Corequisites: NRSG 301, 331, 331L, 341L, or consent of instructor. Satisfactory level AT1 testing including remediation as appropriate.
Theory for psychiatric mental health nursing. Exploration of psychosocial concepts, cultural, ethical, economic, and legal influences on mental health including factors related to wellness, illness of individuals and family groups, development of self-awareness and of the professional role in psychiatric mental health nursing.
Letter grade only (A-F). (Lecture-Discussion)

341L. Psychiatric/Mental Health Nursing Clinical (3)
Prerequisites: PSY 100, SOC 100, NRSG 250, 250L, 260, 260L, 312, 312L, BIOL 304, or consent of instructor. Corequisites: NRSG 301, 331, 331L, 341, or consent of instructor. Satisfactory level AT1 testing including remediation as appropriate.
Provides clinical experiences to apply theories learned in NRSG 341. Will utilize nursing process to apply theories and implement care for clients with psychiatric/mental health issues.
Letter grade only (A-F). (Lecture-Discussion)

353. Legal Aspects of Health Care (2)
Prerequisites: NRSG 331, 331L, 341, 341L, or consent of instructor. Corequisites: NRSG 361, 361L, 372, 372L, or consent of instructor.
Presents legal duties and responsibilities of nurses in delivery of health care services. Professional licensure regulations, scope of nursing practice, and ethical issues related to nursing practice are emphasized.
Letter grade only (A-F).

361. Child Health Care (4)
Prerequisites: NRSG 331, 331L, 341, 341L, or consent of instructor. Corequisites: NRSG 353, 353L, 361L, 372, 372L, or consent of instructor; satisfactory level AT1 testing including remediation as appropriate.
Theory for pediatric nursing including developmental theories and application of evidence based practice to care for well and ill children, birth through adolescence. Pathophysiological conditions, nursing interventions, family centered care, cultural diversity, physical, social, emotional, and cognitive development are addressed.
Letter grade only (A-F).

361L. Child Health Care Clinical (3)
Prerequisites: NRSG 331, 331L, 341, 341L, or consent of instructor. Corequisites: NRSG 353, 353L, 361L, 372L, 372L, or consent of instructor; satisfactory level AT1 testing including remediation as appropriate.
Opportunities to apply concepts from NRSG 361 with a variety of children and their families. Will assess physical, psychological, and cultural issues while planning, implementing, and evaluating care appropriate nursing care for well and ill children.
Letter grade only (A-F). (Laboratory 9 hours)

372. Health Care of the Childbearing Family (3)
Prerequisites: NRSG 331, 331L, 341, 341L, or consent of instructor. Corequisites: NRSG 353, 353L, 361L, 372L, or consent of instructor; satisfactory level AT1 testing including remediation as appropriate.
Nursing care of the childbearing family including application of life span developmental theories. Concepts of health promotion/ disease prevention, cultural diversity, and psychosocial influences are included as well as gynecological, obstetric, and women's health nursing care.
Not open for credit to students with credit in NRSG 371. Letter grade only (A-F).

372L. Women's Health Care Clinical (3)
Prerequisites: NRSG 331, 331L, 341, 341L, or consent of instructor. Corequisites: NRSG 353, 353L, 361L, 372L, or consent of instructor; satisfactory level AT1 testing including remediation as appropriate.
Provides opportunity to apply theoretical concepts of special physiological, psychological, social, spiritual and cultural needs of women, families and newborns during antepartum, intrapartum, postpartum and newborn transition period in a supervised clinical setting.
Not open for credit to students with credit in NRSG 371L. Letter grade only (A-F). (Laboratory 9 hours)
400. Health Care Delivery Systems (3)
Prerequisites: NRSG 353, 361, 361L, 372, 372L or consent of instructor; for RNs: NRSG 309, BIOL 304, or consent of instructor.
Corequisites: NRSG 402, 402L, or consent of instructor.
Study of health care delivery systems with emphasis on role of nursing, laws, well-defined problems and their causes, and in-depth study of impact of political, economic and social, ethical, and international issues of health care system.
Letter grade only (A-F).

402. Community Health Nursing (4)
Prerequisites: NRSG 353, 361, 361L, 372, 372L, or consent of instructor; for RNs: Nursing 312, 312L, BIOL 304, or consent of instructor.
Corequisites: NRSG 400, 402L, or consent of instructor; satisfactory level ATI testing including remediation as appropriate.
Focuses on diverse communities, aggregates, and populations to impact health and quality of life as it relates to individuals, families, populations, and systems. Emphasis on prevention and the greater good of the community/population. Course covers disaster preparedness, disaster response.
Letter grade only (A-F).

402L. Community Health Nursing Clinical Studies (3)
Prerequisites: NRSG 353, 361, 361L, 372, 372L, or consent of instructor; for RNs: BIOL 304, or consent of instructor.
Corequisites: NRSG 400, 402, or consent of instructor; satisfactory level ATI testing including remediation as appropriate.
Clinical application of population-focused public health nursing practice with diverse communities. Examination of health and quality of life related to individuals/families, populations, and systems. Emphasis on prevention and the greater good of the community/population. Course covers pertinent health issues within respective clinical settings.
Letter grade only (A-F). (Laboratory 9 hours)

450. Nursing Research (3)
Prerequisites: NRSG 400, 402, 402L. Corequisites: NRSG 451, 452A and 453L or 452B and 454L or 452D and 456L.
Emphasizes application of research theory to evidence-based nursing practice, including ethics in nursing research and research process.
Letter grade only (A-F). (Lecture-Discussion)

451. Nursing Leadership and Management (2)
Prerequisites: NRSG 400, 402, 402L. Corequisites: NRSG 450, 452A and 453L or 452B and 454L or 452D and 456L.
Satisfactory level ATI testing including remediation as appropriate.
Principles of leadership and management as they apply to front line management positions in healthcare. Emphasis understanding role and responsibilities of professional nurse as leader and manager of patient care services within a variety of settings.
Letter grade only (A-F). (Lecture-Discussion). Not open for credit to students with credit in NRSG 400L.

452A. Advanced Nursing in Critical Care (2)
Prerequisites: NRSG 400, 402, 402L, or consent of instructor.
Corequisites: NRSG 451, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Emphasizes and utilizes advanced concepts and theories in critical care/emergency department, management and leadership applied to selected populations. Integration of critical care/emergency department nursing knowledge essential to new professional roles.
Letter grade only (A-F). (Clinical Process)

452B. Advanced Maternal Child Health in Nursing (2)
Prerequisites: NRSG 400, 402, 402L, or consent of instructor.
Corequisites: NRSG 451, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Emphasizes advanced concepts in maternal child nursing and theories of leadership and management applied to selected maternal child settings. Content focuses on a variety of maternal child populations.
Letter grade only (A-F). (Clinical Process)

452D. Advanced Nursing in Community Mental Health (2)
Prerequisites: NRSG 400, 402, 402L, or consent of instructor.
Corequisites: NRSG 450L, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Emphasizes and utilizes advanced concepts and theories in community, oncology and mental health nursing. This course utilizes management and leadership theories as a critical element in caring for a variety of patients.
Letter grade only (A-F). (Clinical Process)

453L. Advanced Nursing in Critical Care Clinical Studies (4)
Prerequisites: NRSG 402, 402L, or consent of instructor.
Corequisites: NRSG 452A, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Provides clinical experiences in critical care/emergency department health care delivery systems and application of theories of management and leadership.
Letter grade only (A-F). (Laboratory 12 hours)

454L. Advanced Nursing in Maternal-Child Clinical Studies (4)
Prerequisites: NRSG 402, 402L, or consent of instructor.
Corequisites: NRSG 452A, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Provides clinical experiences in application of advanced concepts of maternal-child nursing as well as management and leadership theories.
Letter grade only (A-F). (Laboratory 12 hours)

456L. Advanced Nursing in Community Mental Health Clinical (4)
Prerequisites: NRSG 402, 402L, or consent of instructor.
Corequisites: NRSG 452D, 450, 451, or consent of instructor.
Satisfactory level ATI testing including remediation as appropriate.
Provides advanced experiences in a clinical setting. Utilizes knowledge gained through out nursing program to provide care to patients in hospital and community.
Letter grade only (A-F). (Laboratory 12 hours)

456. NCLEX-RN: Preparatory Course (1)
Prerequisites: NRSG 400, 402, 402L, Co Requisites: NRSG 450, 451, 452A and 453L or 452B and 454L or 452D and 456L.
Provides the student with competencies and strategies to enhance transition from student to baccalaureate prepared nurse. Students gain understanding of the role of the National Council of State Boards of Nursing (NCSBN) in developing and administering the RN licensing examination.
Credit/No Credit grading only. Credit reflects work at the level of "D" or better.

481. Parenting (3)
Prerequisites: Completion of GE foundation requirements, one or more exploration courses, and upper division standing.
Effective parenting with emphasis on common parenting concerns and developmental tasks of parents and children.

482. Health Assessment of the Aging Client (5)
Prerequisites: GERH 400 or equivalent and upper standing or consent of instructor.
Assessment of physical, psycho-social status of aging client as they affect health and well being, and identification of actual or potential health related problems using a variety of tools and techniques.
Same course as GERH 482. Not open for credit to students with credit in GERH 482. (Lecture-Discussion, 3 hrs.)
490. Independent Study (1-3)  
Prerequisite: Consent of any nursing faculty. Students who have made arrangements with a faculty advisor for appropriate learning objectives may enroll.  
May be repeated to a maximum of 6 units.

499 / 599. Special Topics in Nursing (1-3)  
Prerequisite: Consent of instructor.  
Topics consistent with contemporary nursing or curricular trends will be announced each semester.  
May be repeated to a maximum of 3 units with different topics.

GRADUATE LEVEL

502. Genetics in Nursing Practice (3)  
Prerequisites: Senior standing or graduate status or consent of instructor.  
Overview of genetics implications for nurses as they provide health services to clients of all ages, diverse ethnic, cultural, lifestyle and geographic areas. Will explore basic mechanisms of genetic inheritance and how genetics has an impact on health promotion, disease prevention and policy implications.  
Letter grade only (A-F).

505. Holistic Nursing Interventions Across the Lifespan (3)  
Prerequisites: Senior standing or graduate status.  
Will present therapeutic touch, meditation, and imagery as interventions grounded in a holistic nursing framework. Basics of practicing modalities which will enable them to begin incorporating these modalities into their practice.  
Letter grade only (A-F).

510. Advanced Pathophysiology for Advanced Practice Nursing (2)  
Prerequisite: Admission to the graduate nursing program and completion of upper division pathophysiology course, or consent of instructor.  
Builds upon knowledge developed in undergraduate Pathophysiology course. Integration and communication between organs systems will be explored to gain greater knowledge of disturbances at cellular level which predictably result in organ and system dysfunction.  
Prerequisite to NRSG 660 series. Letter grade only (A-F). Lecture-Activity.

511A. Advanced Pathophysiology for Clinical Nurse Specialists (2)  
Prerequisite: Admission to the Acute Care Adult CNS graduate nursing program or consent of instructor.  
Examines the principles underlying the disturbance of homeostatic mechanisms. Disturbances at the cellular level are explored to enable the student to build an understanding of resultant aberrant organ and system function.  
Letter grade only (A-F).

520. Advanced Pharmacology for Advanced Practice Nursing (3)  
Prerequisite: Admission to the graduate nursing program, or consent of instructor.  
Doses with use of drugs in providing perinatal care, family planning services and/or routine health care.  
Prerequisite to NRSG 660 series. Letter grade only (A-F).

521A. Advanced Pharmacology for Clinical Nurse Specialists (CNS) (3)  
Prerequisite: Admission to the Acute Care Adult CNS graduate nursing program.  
Designed to provide advanced knowledge about pharmacological agents utilized in the management of a variety of acute care clinical situations. Content will focus on the role of CNS.  
Letter grade only (A-F).

530. Advanced Physical Assessment for Advanced Practice Nursing (2)  
Prerequisites: Admission to the graduate nursing program and completion of basic physical assessment course, or consent of instructor.  
Designed for advanced practice nurses and a prerequisite to each specialty track. Through classroom instruction, web based instruction and self-assessment, and on-site clinical review and practice, advanced assessment and diagnostic skills are developed.  
Prerequisite to NRSG 680 series. Letter grade only (A-F).  
Technical activity and laboratory 4 hours.

530L. Advanced Physical Assessment Laboratory (1)  
Prerequisites: Admission to graduate program or consent of instructor. Corequisite: NRSG 530.  
Application of theoretical knowledge of advanced physical assessment in supervised clinical settings appropriate to the specialty of the advanced practice nursing student.  
Credit/No Credit grading only.  
Technical activity and laboratory 3 hours.

535. Physical Assessment in Early Childhood through Adolescence (3)  
Prerequisite: Admission to the School Nurse Credential Program or consent of instructor.  
Presents theoretical content, methods and processes, which are applicable to the clinical practice of nursing in the school setting.  
Explores the competencies for primary health assessment of children from infancy through adolescence.  
Letter grade only (A-F). (2 hours lecture/discussion and 3 hours laboratory)

536. Theories and Practice of School Nursing (3 units)  
Prerequisites: Admission to the School Nurse Credential Program, NRSG 535, CD 535 or 431/531 and HSC 430, or consent of instructor. Corequisite: NRSG 536L.  
Focuses on normal/pathological conditions and the organizational, philosophical, and legal aspects in the delivery of school health programs as well as emphasizing the theoretical bases for the practice of school nursing in the school setting.  
Letter grade only (A-F).

536L. School Nursing Clinical (3 units)  
Prerequisites: Admission to the School Nurse Credential Program, NRSG 535, CD 535 or 431/531 and HSC 430, or consent of instructor. Corequisite: NRSG 536.  
The clinical component of the school nurse program. The student will demonstrate the application of theory within the school setting.  
The focus of the course is on the implementation of the role of the school nurse.  
Credit/No Credit grading only. (9 hours clinical/week)

540. Health Care Economics, Policy, and Management for Advanced Practice Nursing (2)  
Prerequisites: Admission to graduate nursing program or consent of instructor.  
Designed to provide an understanding of economic and political environment of U.S. healthcare system. Principles of economic and organizational theory are explored within context of advanced practice role. Contemporary issues are explored.  
Prerequisite to NRSG 680 series. Letter grade only (A-F). (Lecture-Discussion)

550. Human Diversity and Psychosocial Issues in Health Care for Advanced Practice Nursing (2)  
Prerequisites: Admission to graduate nursing program or consent of instructor.  
Focuses on understanding and developing advanced practice nurse in providing culturally competent care to individuals, families, groups, and communities with diverse cultural backgrounds.
Patterns of human interaction that foster and neglect health and quality of life are analyzed. Contemporary issues are explored. Prerequisite to NRSG 680 series. Letter grade only (A-F). (Lecture-Discussion)

551A. Spanish Language Competency for Advanced Practice Nurses (3)
Prerequisite: Consent of instructor. Provides foundational knowledge and skills to enable advanced practice nurses (APN) to learn and apply principles of cultural competency and Spanish language skills to role of nurse practitioner in conducting a health history and physical assessment for diverse Spanish speaking populations.

551B. Spanish Language Competency for Advanced Practice Nurses (3)
Prerequisite: NRSG 551A or consent of instructor. Principles of cultural competency and Spanish language skills for diagnosing and treating Spanish speaking patients: focuses on hematology, musculoskeletal II, cardiovascular, neurology, dermatology I & II, family violence/substance abuse, nutrition/weight management, developmental disorders, genetics, mental health, ophthalmology, and infectious diseases.

555A. Conditions of Learning and Instruction in Nursing (3)
Application of theories of learning and instruction to patient/student teaching-learning situations. Content covered includes conditions of learning, models of instruction, transfer of learning, behavior modification techniques, variables influencing learning and instruction, and evaluation of instruction. Letter grade only (A-F).

555B. Curriculum Development in Nursing (3)
A systematic study of principles of curriculum development as they apply to different types of nursing programs. Focuses on relationship among philosophy, objectives, selection and organization of learning experiences and evaluative process. Letter grade only (A-F).

555L. Theoretical Concepts Laboratory of Nursing Education (1-4)
Prerequisites: NRSG 556A or consent of instructor. Instructional skills and application of theories of learning and instruction to practice and teaching of nursing within a supervised practice teaching situation. Reference to ways teaching skills relate to broader educational issues such as teaching/learning theory. May be repeated to a maximum of 4 units. Letter grade only (A-F).

559. Nursing Administration (3)
Application of management theories to administration, organizational theory, structure and culture, leadership theories and decision-making processes in clinical settings. Legal-ethical parameters of nursing administration are threaded throughout course. Letter grade only (A-F).

560. Professional Foundations of Theoretical and Professional Roles in Advanced Nursing Practice (2)
Prerequisites: Admission to graduate nursing program or instructor consent. Study of theoretical frameworks and professional roles influencing advanced practice nursing. Analyze and implement major theoretical frameworks for advanced practice. Begin dynamic process of role development by exploring role boundaries and collaborative practice. Prerequisite course to NRSG 580 series. Letter grade only (A-F). (Lecture-Discussion)

565. Theories of Community/Public Health Nursing (3)
Prerequisites: Admission to graduate nursing program and NRSG 560, or consent of instructor. Analysis, synthesis and application of theories from nursing, public health, and other disciplines to community/public health nursing practice. Exploration of population-focused theory and provision of health promotion and prevention services to underserved populations and communities. (Seminar, 3 hours) Letter grade only (A-F).

590. Independent Study (1-3)
Prerequisite: Consent of a nursing faculty member. Independent research under supervision of a nursing faculty member. Letter grade only (A-F).

596. Research Methods in Nursing (3)
Prerequisites: Admission to the graduate nursing program and upper division statistics, or consent of instructor. Nursing research process, including use and testing of nursing theories, development of research proposals including conceptualization of problem, literature search, study design, data collection, analysis and interpretation of findings. Letter grade only (A-F). (Lecture-Discussion.)

599. J499. Special Topics in Nursing (1-3)
Prerequisite: Consent of instructor. Topics consistent with contemporary nursing or curricular trends will be announced each semester. Credit may be earned each time a new topic is offered. Letter grade only (A-F).

660B. Theoretical Base for Advanced Nursing Practice (3)
Prerequisites: Admission to graduate nursing program. Pathophysiology, and Physical Assessment, or consent of instructor. Relationship of psycho-social theory to health care with an emphasis on application of theory to clinical practice. Various sections will focus on different areas of clinical interest. Letter grade only (A-F).

667. Women's Health Theories for Advanced Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 667A, 667B. Epidemiology, etiology, differential diagnoses, management, and prevention of common health problems of women before, during, and after the childbearing cycle in ambulatory health care settings with a focus on the role of the nurse practitioner. Letter grade only (A-F).

667A. Women's Health Clinical Studies for Advanced Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program in the women's health nurse practitioner specialty and NRSG 510, 520, 530, 530L, 540, 550, 560, and 596, or consent of instructor. Corequisites: NRSG 667, 667B. One of two courses designed to apply theoretical knowledge and laboratory skills in the management of common health problems of women before, during, and after the childbearing cycle in ambulatory health care settings. Emphasizes the role of the nurse practitioner in gynecology. Letter grade only (A-F). (Laboratory 9 hours)

667B. Women's Health Clinical Studies for Advanced Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program in the women's health nurse practitioner specialty and NRSG 510, 520, 530, 530L, 540, 550, 560, and 596, or consent of instructor. Corequisites: NRSG 667, 667A. One of two courses designed to apply theoretical knowledge and laboratory skills in the management of common health problems of women before, during, and after the childbearing cycle in ambulatory health care settings. Emphasizes the role of the nurse practitioner in obstetrics. Letter grade only (A-F). (Laboratory 9 hours)

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668. Women's Health Theories for Advanced Practice Nursing II (3)
Prerequisites: Admission to the graduate nursing program and NRSG 667, 667A, 667B, or consent of instructor. Corequisites: NRSG 668A, 668B.
Epidemiology, etiology, differential diagnoses, management, and prevention of complex health problems of women before, during, and after the childbearing cycle in ambulatory health care settings with a focus on the role of the nurse practitioner.
Letter grade only (A-F).

668A. Women's Health Clinical Studies for Advanced Practice Nursing III (3)
Prerequisites: Admission to the graduate nursing program and NRSG 667, 667A, 667B, or consent of instructor. Corequisites: NRSG 668, 668B.
One of two courses designed to apply theoretical knowledge and laboratory skills in the management of complex health problems of women before, during, and after the childbearing cycle in ambulatory health care settings. Emphasizes the role of the nurse practitioner in gynecology.
Letter grade only (A-F). (Laboratory 9 hours)

668B. Women's Health Clinical Studies for Advanced Practice Nursing IV (3)
Prerequisites: Admission to the graduate nursing program and NRSG 667, 667A, 667B, or consent of instructor. Corequisite: NRSG 668, 668A.
One of two courses designed to allow the student to apply the knowledge and skills of caring for complex health problems of women before, during, and after the childbearing cycle in ambulatory health care settings with a focus on the role of the nurse practitioner. This clinical course focuses on obstetrics.
Letter grade only (A-F).

670. Community Health Theories for Advanced Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 665, or consent of instructor. Corequisites: NRSG 670L.
Examination of Community/Public Health Nursing roles in health program and policy planning for aggregates, populations and communities, theories of community programs and health policy planning explored for underserved and ethically diverse populations.
(Seminar 3 hours). Letter grade only (A-F).

670L. Advanced Community/Public Health Nursing Clinical I (3)
Prerequisites: Admission to graduate nursing program and NRSG 665 or consent of instructor.
Experiences in selected community health settings to prepare for advanced practice emphasis on assessment, planning, and policy development for culturally diverse populations.
Credit/No Credit grading only. (Clinical 9 hours)

671. Community Health Theories for Advanced Practice Nursing II (3)
Prerequisites: NRSG 670 and 670L or consent of instructor. Corequisite: NRSG 671L.
Examination of the Community/Public Health Nursing (CPHN) roles in health program and policy implementation for aggregates, populations, and communities. Theories of community health programs and health policy implementation will be explored for underserved and ethically diverse populations.
(Seminar 3 hours). Letter grade only (A-F).

671L. Advanced Community/Public Health Nursing Clinical II (3)
Prerequisite(s): NRSG 670 and 670L, or consent of instructor. Corequisite: NRSG 671L.
A laboratory course offering clinical experiences in selected community health settings to prepare the student for advanced nursing practice.
(Clinical 9 hours). Letter grade only (A-F).

672. Community Health Theories for Advanced Practice Nursing III (3)
Prerequisites: NRSG 671, 671L, or consent of instructor. Corequisite: NRSG 672L.
Focus on leadership role of the CPHN in the integration of nursing and public health theories in evaluation and implementation strategies for health programs and policies for underserved and ethically diverse populations.
Letter grade only (A-F).

672L. Advanced Community/Public Health Nursing Clinical III (3)
Prerequisite(s): NRSG 671, 671L or consent of instructor. Corequisite: NRSG 672L.
Clinical course offering leadership experiences in selected community health settings to prepare the student for advanced nursing practice in program and health policy evaluation.
Letter grade only (A-F).

673. Theories for Advanced Nursing Practice in Adult Care Clinical Nurse Specialist (CNS): Adult Patients (3)
Prerequisites: NRSG 511A, 521A, 530, 530L, 540, 550, 550L, and 590, or consent of instructor. Corequisites: NRSG 673L.
Emphasis is on the Clinical Nurse Specialist’s (CNS) sphere of influence impacting the health outcomes of diverse patients with multiple, complex health problems and their families by developing advanced competencies necessary for the management of multiple therapeutically interventions.
Letter grade only (A-F).

673L. Clinical Studies for the CNS in Adult Care (3)
Prerequisites: NRSG 511A, 521A, 530, 540, 550, 550L, and 590 or consent of instructor. Corequisite: NRSG 673.
Focuses on implementation of CNS roles of teacher, expert clinician, manager of care, and research in a variety of acute and chronic care settings. Sphere of influence is primarily patient and family related.
Letter grade only (A-F).

674. Theories for Advanced Nursing Practice in Adult Care Clinical Nurse Specialist (CNS): Employees (3)
Prerequisites: NRSG 673 and 673L or consent of instructor. Corequisite: NRSG 674L.
Deals with development of advanced skills and competencies in the management and human resources, educational programs, motivation, consultation, and personnel ethics as they apply to role of clinical nurse specialist.
Letter grade only (A-F).

674L. Clinical Studies for the CNS in Adult Care (3)
Prerequisite: NRSG 673 and 673L or consent of instructor. Corequisite: NRSG 674L.
Focuses on implementation of CNS roles of teacher, expert clinician, manager of care, and research in a variety of acute and chronic care settings. Sphere of influence is primarily the employees.
Letter grade only (A-F).

675. Theories for Advanced Nursing Practice in Adult Care Clinical Nurse Specialist (CNS): The Organizational Setting (3)
Prerequisites: NRSG 674 and 674L or consent of instructor. Corequisite: NRSG 675L.
Focuses on CNS roles as managers of care, change agents, consultants and teachers in a variety of acute and chronic care settings. Sphere of influence is the organizational network.
Letter grade only (A-F).
675L. Clinical Studies for the CNS in Adult Care (3)
Prerequisites: NRSG 674 and 674L, or consent of instructor.
Corequisites: NRSG 675.
Focuses on CNS roles as manager of care, change agent, consultant and therapist in a variety of acute and chronic care settings. Sphere of influence is primarily the employees.
Letter grade only (A-F).

676. Administrative Theories for Nursing Practice I (3)
Prerequisites: NRSG 509, HCA 510, 515 or consent of instructor.
Corequisites: NRSG 676L.
Focus on principles and theories of management that deal with the human element in nursing administration. The specific topics covered are the allocation of human resources and budgeting, stress management, motivation, morale, and job satisfaction, conflict management and collective bargaining.
Letter grade only (A-F). (Discussion)

676L. Administrative Theories for Nursing Practice I (3)
Prerequisites: NRSG 559, HCA 510, 515 or consent of instructor. Corequisite: NRSG 676L.
Application of theories and principles of allocation of resources to administration of nursing services and participating in dealing with factors influencing human performance in nursing administration, such as stress management, motivation, job satisfaction, conflict resolution and collective bargaining.
Letter grade only (A-F). (Technical activities/laboratory 9 hours)

677. Administrative Theories for Nursing Practice II (3)
Prerequisites: NRSG 676, 676L, HCA 502, 505 or consent of instructor. Corequisite: NRSG 677L.
The administration of nursing services in different types of health care delivery systems with emphasis on managed care and issues such as long term care delivery systems, health care policy and health care reform will be discussed in great depth.
Letter grade only (A-F). (Discussion)

677L. Advanced Administrative Nursing Clinical II (3)
Prerequisites: NRSG 676, 676L, HCA 502, 505 or consent of instructor. Corequisites: NRSG 677, HCA 537.
The application of principles related to managed care to administration of nursing services. The leader will be an active participant in dealing with issues related to long-term care, health care policy and health care reform.
Letter grade only (A-F). (Technical activities/laboratory 9 hours)

678. Administrative Theories for Nursing Practice III (3)
Prerequisites: NRSG 677, 677L, HCA 537, or the consent of the instructor. Corequisite: NRSG 678L.
Focus on selected principles and theories of learning and instruction as they relate to staff development, competency-based education and program evaluation. Principles related to marketing nursing services, risk management and career development are operationalized.
Letter grade only (A-F). (Discussion)

678L. Advanced Administrative Nursing Clinical III (3)
Prerequisites: NRSG 677, 677L, HCA 537 or consent of instructor. Corequisite: NRSG 678.
The application of management principles of staff development, competency-based education, program evaluation, marketing, risk management and career development to administration of nursing services in any health care setting.
Letter grade only (A-F). (Technical activities/laboratory 9 hours)

680A, B, C. Theories for Extended Nursing Practice (3,3,3)
Prerequisites: Admission to graduate nursing program, a physical assessment course and upper division pathophysiology course, or consent of instructor. Corequisite: NRSG 680L.
Normal and pathological conditions and management theory base applicable for advanced nurse in clinical areas of concentration. May be repeated to a maximum of 6 units in each suffix. Letter grade only (A-F).

680L. Clinical Studies in Nursing (3)
Prerequisites: Admission to graduate nursing program, a physical assessment course and upper division pathophysiology course, or consent of instructor. Corequisites: NRSG 680A, B, or C.
A laboratory course offering clinical experience in selected settings to prepare for advanced nursing practice. May be repeated to a maximum of 9 units with different topics.

682. Family Theories for Advanced Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 682A, 682B.
Focuses on epidemiology, pathophysiology, clinical presentation, diagnosis, and management of common diseases across the lifespan. Role of family nurse practitioner in health promotion and disease prevention and management.
Letter grade only (A-F).

682A. Family Clinical Studies for Advanced Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596 and clinical pre-test, or consent of instructor. Corequisites: NRSG 682, 682B.
A laboratory course designed to apply theoretical knowledge in supervised clinical settings in family practice. An emphasis placed on socialization into family nurse practitioner role.
Letter grade only (A-F). (Laboratory 9 hours)

682B. Family Clinical Studies for Advanced Practice Nursing II (3) F
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596 or consent of instructor. Corequisites: NRSG 682, 682A.
Second of two courses that allows expanded theoretical knowledge in supervised clinical settings in family practice. Emphasis placed on socialization into family nurse practitioner role.
Letter grade only (A-F). (Laboratory 9 hours)

683. Family Theories for Advanced Practice Nursing II (3) S
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596 or consent of instructor. Corequisites: NRSG 683A, 683B.
Focuses on epidemiology, pathophysiology, clinical presentation, diagnosis, and management of common diseases across the lifespan. Role of family nurse practitioner in health promotion and disease prevention and management.
Letter grade only (A-F).

683A. Family Clinical Studies for Advanced Practice Nursing III (3) S
Prerequisites: Admission to graduate nursing program and NRSG 682, 682A and 682B, or consent of instructor. Corequisites: NRSG 683, 683B.
Second of two courses that allows expanded theoretical knowledge in supervised clinical settings in family practice. Emphasis placed on socialization into family nurse practitioner role.
Letter grade only (A-F). (Laboratory 9 hours)

683B. Family Clinical Studies for Advanced Practice Nursing IV (3) S
Prerequisites: Admission to graduate nursing program and NRSG 682, 682A and 682B, or consent of instructor. Corequisites: NRSG 683, 683A.
Second of two courses that allows expanded theoretical knowledge in supervised clinical settings in family practice. Emphasis placed on socialization into family nurse practitioner role.
Letter grade only (A-F). (Laboratory 9 hours)
684. Pediatric Theories for Advanced Nursing (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 664A, 684B.
Provides Pediatric Nurse Practitioner student with theoretical frameworks for well child care. Focuses on preventive health care, well child management, professional issues and related research of children from infancy through adolescence.
Letter grade only (A-F).
684A. Pediatric Clinical Studies for Advance Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 664, 684B.
First clinical course of pediatric nurse practitioner program. Emphasis application of theory to preventative health care, management of well child and common pediatric problems. Credit/No Credit grading only. (Laboratory 9 hours)
684B. Pediatric Clinical Studies for Advance Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 664, 684A.
Second clinical course of pediatric nurse practitioner program. Emphasis application of theory to preventative health care, management of well child and common pediatric problems. Credit/No Credit grading only. (Laboratory 9 hours)
685. Pediatric Theories for Advance Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program and NRSG 684, 684A and 684B, or consent of instructor. Corequisites: NRSG 685A, 685B.
Diagnosis, treatment and management of common pediatric conditions and disorders by pediatric nurse practitioner utilizing a theoretical framework appropriate for pediatric nurse practitioner. Letter grade only. (A-F).
685A. Pediatric Clinical Studies for Advance Practice Nursing III (3)
Prerequisites: Admission to graduate nursing program and NRSG 684, 684A and 684B, or consent of instructor. Corequisites: NRSG 685, 685B.
First of two clinical course deals with application of theory related to assessment, diagnosis, and management by pediatric nurse practitioners of common pediatric health care problems in clinical settings. Letter grade only. (A-F). (Laboratory 9 hours)
685B. Pediatric Clinical Studies for Advance Practice Nursing IV (3)
Prerequisites: Admission to graduate nursing program and NRSG 684, 684A and 684B, or consent of instructor. Corequisites: NRSG 685, 685A.
Application of theory related to assessment, diagnosis, and management by pediatric nurse practitioner of common pediatric health care problems in clinical settings. Letter grade only. (A-F). (Laboratory 9 hours)
686. Adult/Geriatric Theories for Advance Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596, or consent of instructor. Corequisites: NRSG 666A, 666B.
Epidemiology, etiology, differential diagnoses, management and prevention of selected health problems of adult/geriatric patient in primary, secondary and tertiary settings and role of nurse practitioner in these settings in a changing healthcare environment. Letter grade only (A-F).
686A. Adult/Geriatric Clinical Studies in Advance Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596 and clinical pre-test, or consent of instructor. Corequisites: NRSG 666, 686B.
First of two designed to allow adult/geriatric nurse practitioner student to apply theoretical knowledge in supervised clinical practice with adult and geriatric patients. Emphasis placed on beginning socialization into nurse practitioner role. Credit/No Credit grading only. (Laboratory 9 hours)
686B. Adult/Geriatric Clinical Studies in Advance Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 596 and clinical pre-test, or consent of instructor. Corequisites: NRSG 666, 686A.
Second of two designed to allow adult/geriatric nurse practitioner student to apply theoretical knowledge in supervised clinical practice with adult and geriatric patients. Emphasis placed on beginning socialization into nurse practitioner role. Credit/No Credit grading only. (Laboratory 9 hours)
687. Adult/Geriatric Theories for Advanced Practice Nursing II (3) S
Prerequisites: Admission to graduate nursing program and NRSG 686, 686A and 686B, or consent of instructor. Corequisites: NRSG 686A, 686B.
Epidemiology, etiology, differential diagnosis, management and prevention of additional selected health problems of adult/geriatric patient in primary, secondary and tertiary settings, and a further delineation of role of nurse practitioner in those changing healthcare environment. Letter grade only (A-F).
687A. Adult/Geriatric Clinical Studies in Advanced Practice Nursing III (3) S
Prerequisites: Admission to graduate nursing program and NRSG 686, 686A and 686B, or consent of instructor. Corequisites: NRSG 687, 687B.
First of two designed to allow adult/geriatric nurse practitioner student to apply theory into clinical practice with adult and geriatric patients. Emphasis placed on continuing to socialize into nurse practitioner role. Letter grade only (A-F). (Laboratory 9 hours)
687B. Adult/Geriatric Clinical Studies in Advanced Practice Nursing IV (3) S
Prerequisites: Admission to graduate nursing program and NRSG 686, 686B and 686D, or consent of instructor. Corequisites: NRSG 687, 687A.
Second of two designed to allow adult/geriatric nurse practitioner student to apply theory into clinical practice with adult and geriatric patients. Emphasis placed on continuing to socialize into nurse practitioner role. Letter grade only (A-F). (Laboratory 9 hours)
688. Psychiatric-Mental Health Theories for Advance Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRSG 510, 520, 530, 530L, 540, 550, 560 and 564, or consent of instructor. Corequisites: NRSG 688A, 688B.
Study of pathology, diagnostic methods, indications for referral, and management for nurse practitioner students of medical, psychological, and social problems of clients of psychiatric facilities and community mental health agencies. Letter grade only (A-F)
688A. Psychiatric-Mental Health Clinical Studies for Advance Practice Nursing I (3)
Prerequisites: Admission to graduate nursing program and NRS 510, 520, 530, 530L, 540, 550, 560, or consent of instructor. Corequisites: NRS 658, 688B.

First clinical practicum for nurse practitioner students that focused on application of mental health concepts. Theories from prerequisite and concurrent courses are applied and tested.
Credit/No credit grading only. (Laboratory 9 hours)

688B. Psychiatric-Mental Health Clinical Studies for Advance Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program and NRS 510, 520, 530, 530L, 540, 550, 560, or consent of instructor. Corequisites: NRS 658, 688A.

Second clinical practicum for nurse practitioner students that focused on application of mental health concepts. Theories from prerequisite and concurrent courses are applied and tested.
Credit/No credit grading only. (Laboratory 9 hours)

689. Psychiatric-Mental Health Theorists for Advance Practice Nursing II (3)
Prerequisites: Admission to graduate nursing program and NRS 510, 520, 530, 530L, 540, 550, 560, or consent of instructor. Corequisites: NRS 688A, 688B.

Advanced study of pathology, diagnostic methods, indications for referral, and management for nurse practitioner students of medical, psychological, and social problems of clients of psychiatric facilities and community mental health agencies.
Letter grade only (A-F)

689A. Psychiatric-Mental Health Clinical Studies for Advance Practice Nursing III (3) S
Prerequisites: Admission to graduate nursing program and NRS 688, 688A and 688B, or consent of instructor. Corequisites: NRS 689, 688B.

First supervised clinical practicum for nurse practitioner students focused on application of complex mental health concepts. Theories from prerequisite and concurrent nursing theory courses are applied and tested in clinical setting.
Letter grade only (A-F). (Laboratory 9 hours)

689B. Psychiatric-Mental Health Clinical Studies for Advance Practice Nursing III (3) S
Prerequisites: Admission to graduate nursing program and NRS 689, 688A and 688B, or consent of instructor. Corequisites: NRS 689, 688A.

Second supervised clinical practicum for nurse practitioner students focused on application of complex mental health concepts. Theories from prerequisite and concurrent nursing theory courses are applied and tested in clinical setting.
Letter grade only (A-F). (Laboratory 9 hours)

692. Nursing Directed Project (1-4)
Prerequisites: Admission to graduate nursing program, advancement to candidacy, NRS 595, and consent of department graduate advisor.

Planning, preparation and completion of a directed project appropriate to advanced practice nursing. May be repeated to a maximum of 4 units in different semesters.
Letter grade only (A-F)

695. Professional Literature (3)
Prerequisites: NRS 510, 520, 530, 530L, 540, 550, 560, 565, 595, 596, 680L, 680L, 680L, or 690 AB Class series, and advancement to candidacy, or consent of instructor and graduate advisor.

Critical analysis and synthesis by comparative review of professional literature in nursing practice, theory, and research. Not open to credit to students taking NRS 698. Letter grade only (A-F)

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NUTRITION AND DIETETICS
College of Health and Human Services
Department of Family and Consumer Sciences

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Sonetti, M. Sue Stanley, Ramone B. Tomia (Emeritus), Richard V.
Tuvozon, Jung-Mook (Ronnie) Yeh
Baccalaureate Program Coordinator: Richard V. Tuvozon
Graduate Coordinator: Jacqueline J. Lee
Single Subject Credential Advisor: Margaret Lichty
Administrative Support Coordinators:
Mikal Lok; Mariana Bordenay
Instructional Support Technician: Bonnie Rice

Career Possibilities
Clinical Dietitian • Private Practice Dietitian • Research
Dietitian • School Foodservice Director • Food Products
Sales Representative • Food Technologist • Food Service
Supervisor • Restaurant Manager • Public Health Nutritionist
• Food and Drug Inspector • Public Health and Wellness
Educator (Some of these, and other careers, require
additional education or experience. For more information,
see www.careers.csulb.edu.)

Undergraduate Degrees

Bachelor of Science in Dietetics and Food Administration
The Department of Family and Consumer Sciences
offers students a Bachelor of Science degree in Dietetics
and Food Administration two option areas of study:
• Nutrition and Dietetics
• Food Science
Specific degree and certificate information as well
as option requirements are listed under each option
alphabetically in this Catalog.

Requirements for the major include a minimum of 128
units for Nutrition and Dietetics. In addition to general
education requirements (48 units), a minimum of 40 units
in Family and Consumer Sciences is required, 24 of which
must be upper division. Students transferring from another
college or university will receive transfer credit in required
courses if the course is equivalent to the course at this
University and it is accepted by the University.

Nutrition and Dietetics
Individuals choosing this option will concentrate
their studies in the areas of nutritional science, medical
nutrition therapy, community nutrition, food production
and management of foodservice operations, chemistry,
physiology, plus a variety of supporting course work in
related disciplines. The Nutrition and Dietetics option
with appropriate elective selection fulfills the American
Dietetic Association (ADA) academic requirements for
eligibility to apply for qualifying experiences required
to become a Registered Dietitian. Career opportunities
include: community nutrition programs, health clubs,
private consulting, health and wellness agencies, program
administration, health promotion, government agencies,
hospitals and clinics, foodservice operations, public and
private schools, research, and business and industry.

Option in Nutrition and Dietetics
(code FCS_BS01) (128 units)

ANTH 4121 or HCA 4221 or H SC 4201; BIOL 207 or 342
and 342L; BIOL 250 or ED P 419 or H SC 403 or IS 310;
CHEM 111A, 327, 448, 449; COMM 110; ED P 373; ENGL
100; ENGL 101 or 317; HRM 361 or PSY 381; IS 233 or
300 or FCSE 387; MCR 200; PSY 100; SOC 100; CAFF
321; CDFS 312; FCSE 299, 486, 499; NUTR 132, 234,
331A, 331B, 336, 436, 436L, 438, 438L, 492X or 3 units of
FCSE 497; FSCI 352; HFHM 173, 235, 275. Additionally,
a minimum of 6 units of electives is selected in consultation
with a Nutrition and Dietetics faculty advisor. Recommended
electives include: HFHM 375, 477; FCSE 497; NUTR 439,
492X. If a stronger foundation in Chemistry is desired,
CHEM 320A and 320B may be selected instead of CHEM
327. If a stronger foundation in Biochemistry is desired,
CHEM 441A and CHEM 441B may be selected instead of
CHEM 448.

Students who wish to take the Nutrition and Dietetics
Option as a Pre-professional degree (e.g., medical, etc.)
should check with the appropriate programs to verify
specific requirements.

The American Dietetic Association (ADA)
Didactic Program in Dietetics

The ADA Didactic (Academic) Program in Dietetics
(DPD) is designed to provide students with a foundation
of knowledge and skills in dietetics that will enable them
to perform successfully in a dietetic internship. The DPD is
granted accreditation by the American Dietetic Association
Commission on Accreditation for Dietetics Education, a
specialized accrediting body recognized by the Council
on Postsecondary Accreditation and the United States
Department of Education. It is the responsibility of the
student to consult with the ADA DPD Director to verify
current ADA requirements to become a Registered Dietitian.

Students who choose to meet ADA academic
requirements must select HFHM 375 and 477 as electives
in their major.

Students must receive a grade of "C" or better in the
DPD courses to receive verification of completion of the
ADA program. Approval of a student's academic program by
the CSULB DPD Director requires that the student complete
courses HFHM 477; NUTR 438L, and 438 at CSULB.

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Courses (NUTR)

LOWER DIVISION

132. Introductory Nutrition (3)
Prerequisite: One of the Foundation courses (may be taken concurrently).

Essential nutrients, their physiological functions and human needs during the life cycle; food sources as applied to selection of an adequate diet; problems encountered providing food to meet nutritional needs; food additives and consumer protection.

Not open for credit to students with credit in FCS 232. (Lecture-discussion 3 hours)

234. Orientation to Dietetics and Food Administration (2)
Role of the professional in dietetics and food administration; orientation to career opportunities in Food, Nutrition and Foodservice Systems Management; personnel and physical facilities, including equipment in health care and mass feeding programs.

(Lecture-discussion 1 hour, activity 2 hours.)

UPPER DIVISION

331A. Fundamentals of Human Nutrition (3)
Prerequisites: NUTR 132, BIOL 207, CHEM 302 or 327 or equivalent.

Nutritional needs with emphasis on the physiological and chemical foundation for these needs; factors influencing nutrient needs.

(Lecture-discussion 3 hours.)

331B. Fundamentals of Human Nutrition (3)
Prerequisites: NUTR 331A.

Nutritional needs with emphasis on changes through the life cycle. Introduction to dietary modifications in various pathological conditions. Introduction to nutrition assessment and nutrition education techniques.

(Lecture-discussion 3 hours.)

336. Cultural Aspects of Food and Nutrition (3)
Prerequisites: PSY 100 or SOC 100 or ANTH 120 or equivalent; NUTR 132.

Cross-cultural study of food and nutrition. Factors such as religion, food supply and socioeconomic status are considered as they influence nutritional status and food intake in various populations throughout the world.

(Lecture 3 hours.)

339. Metabolic Functions of Nutrients (1)
Prerequisites: CHEM 140, BIOL 207, and consent of instructor.

Metabolic role of nutrients in the human body; practical application of nutrition to patient care.

Open to nursing Majors only. (Activity 2 hours.) Letter grade only (A-F).

436. Advanced Nutrition (3)
Prerequisites: NUTR 331B, CHEM 448, 449 (may be taken concurrently).

Metabolism of proteins, fats, carbohydrates, minerals and vitamins; interrelationship of nutrients; principles of determining nutritional requirements of individuals.

(Lecture-discussion 3 hours.)

456L. Nutritional Status Assessment Techniques (3)
Prerequisites/Corequisites: NUTR 456 and CHEM 449.

Designed to provide training in nutrition assessment and nutrition counseling. Use of procedures for interviewing, counseling, and instructing patients/clients in various settings comparable to those encountered in dietetic practice. Includes laboratory methods for collection and interpretation of demographic, dietary anthropometrics, biochemical, and clinical data.

Letter grade only (A-F). (Discussion 1 hour, Laboratory 3 hours, Clinical Practice 3 hours.)

438. Medical Nutrition Therapy (3)
Prerequisites: NUTR 436, 438L (may be taken concurrently).

Therapeutic nutrition. Metabolic changes in specific pathological conditions; dietary modifications used for treatment.

(Lecture-discussion 3 hours.)

439. Nutrition and Aging (3)
Prerequisites: NUTR 132 or BIOL 207 or consent of instructor.

Nutritional needs as related to physiological changes that occur during aging. Factors that influence food intake and nutritional status of the elderly. Diet adaptation for chronic diseases commonly found in older people.

Same course as GERN 439. Not open for credit to students with credit in GERN 439. (Lecture-discussion 3 hours.)

461. Community Nutrition (3)
Prerequisites: Upper-division standing, NUTR 331B.

Survey of nutrition programs in the community. Techniques of program planning, implementation, management and evaluation.

Letter grade only (A-F). (Lecture-activity 3 hours.)

492K. Internship in Nutrition and Dietetics (3)
Prerequisites: Student must be a Family and Consumer Sciences: Nutrition and Dietetics major; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Nutrition and Dietetics; and HH   275, NUTR 3310 and FCS 332. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.

Field experience in which student assumes a preprofessional role in a professional setting. Objectives developed by student with supervisor must be approved by major advisor and form the basis for evaluation.

May be repeated for 6 units maximum. (Seminar 3 hours.)

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OCEAN STUDIES INSTITUTE
College of Natural Sciences and Mathematics

Director: Larry Allen
Location: Fish Harbor
820 S. Scopello Ave., Terminal Island, CA 90731
Telephone / FAX: (310) 519-3172 / (310) 519-1054
Website: http://www.scni.uw

Introduction
The Ocean Studies Institute was created in 1972 to coordinate teaching, research and community service in ocean studies on member campuses. Members include Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, and San Marcos. The Institute does not offer degrees, but it serves as an administrative liaison to facilitate degree programs offered on member campuses.

The Institute operates a 76-foot research vessel for teaching and research purposes, obtains research grants and contracts, performs research, and is responsible for curriculum planning and facilities acquisition. Presently the Institute serves over 35 departments across eight campuses.

The courses and research in which the Institute is active reflect the broad applied approach of inter disciplinary, mission-oriented projects in harbors and the coastal zone.

Courses (OSI)

UPPER DIVISION

345. Physiology of Marine Animals (4)
Prerequisites: BIOC 111, 111L, 212, 212L, 213, and 213L.
Comparison of the fundamental physiological processes of the major marine phyla, both invertebrate and vertebrate. Laboratory and field investigations will be directed toward marine animals living in this local waters.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

353. Marine Biological Processes (4)
Prerequisites: BIOC 111, 111L, 212, 212L, 213, and 213L.
Study of pelagic and benthic marine ecosystems, including human influences.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

417./517. Marine Benthic Invertibratae of Santa Catalina Island (4)
Prerequisites: OSI 353 and consent of instructor. (Undergraduates enroll in OSI 417; graduates enroll in OSI 517.)
Topics include benthic community structure and function, benthic-pelagic coupling, animal sediment relationships, animal interactions, and marine pollution ecology. Laboratory emphasis will be on identification of local taxa.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

419./519. Marine Ichthyology (4)
Prerequisites: OSI 353 and consent of instructor. (Undergraduates enroll in OSI 419; graduates enroll in OSI 519.)
Taxonomy, morphology, physiology, and ecology of fishes. Emphasis on local marine fishes.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

420./520. Ecology of Marine Fishes (4)
Prerequisites: OSI 419/519 and consent of instructor. (Undergraduates enroll in OSI 420; graduates enroll in OSI 520.)
Fish species assemblages, general ecology, adaptations, and behavioral ecology of marine fishes. Emphasis on local marine fishes.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

425./525. Marine Physiology (4)
Prerequisites: BIOC 111, 111L, 212, 212L, 213, and 213L.
(Undergraduates enroll in OSI 425; graduates enroll in OSI 525.)
Taxonomy, phylogeny, ecology, and physiology of marine algae; emphasis on local marine forms.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

455./555. Marine Ecological Processes (4)
Prerequisites: OSI 353 or BIOC 350 and consent of instructor; statistics recommended. (Undergraduates enroll in OSI 455; graduates enroll in OSI 555.)
Discussion of field studies on ecological principles related to marine communities. Includes an individual field research project and class projects.
Letter grade only (A-F). (Lecture 2 hrs., field 6 hrs.) Course fee may be required.

490./590. Special Topics in Ocean Studies (1-3)
Prerequisites: Consent of instructor. (Undergraduates enroll in OSI 490; graduates enroll in OSI 590.)
Topics from selected areas of Ocean Studies. Course content will vary from section to section.
May be repeated to a maximum of 6 units with consent of instructor. Maximum credit for OSI 490/590 and/or 490L/590L limited to 6 units. Topics to be announced in the Schedule of Classes. Letter grade only (A-F). (Lecture 1-3 hrs.) Course fee may be required.

490L./590L. Laboratory in Special Topics in Ocean Studies (1-3)
Prerequisite: Consent of instructor. (Undergraduates enroll in OSI 490L; graduates enroll in OSI 590L.)
Topics from selected areas of Ocean Studies. Course content will vary from section to section.
Letter grade only (A-F). May be repeated to a maximum of 6 units with the consent of instructor. Maximum credit for OSI 490/590 and/or 490L/590L limited to 6 units. Topics to be announced in the Schedule of Classes. (Laboratory 3-9 hrs.) Course fee may be required.

496. Undergraduate Directed Research (1-3)
Prerequisite: Consent of instructor. Not available to graduate students.
Independent research to be conducted under the supervision of a Catalina Seminar instructor. Students develop their ideas during the first 12 weeks of the semester, prepare a research proposal, complete their studies, and present their findings in a mini-symposium and a report.
Letter grade only (A-F).
517/417. Marine Benthic Invertebrates of Santa Catalina Island (4)
Prerequisite: OSI 353 and consent of instructor. (Undergraduates enroll in OSI 417; graduates enroll in OSI 517.)
Topics include benthic community structure and function, benthic-pelagic coupling, animal-sediment relationships, animal interactions, and marine pollution ecology. Laboratory emphasis will be on identification of local forms.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

519/419. Marine Ichthyology (4)
Prerequisite: OSI 353 and consent of instructor. (Undergraduates enroll in OSI 419; graduates enroll in OSI 519.)
Taxonomy, morphology, physiology, and ecology of fishes. Emphasis on local marine fishes.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

520/420. Ecology of Marine Fishes (4)
Prerequisite: OSI 519/419 and consent of instructor.
(Undergraduates enroll in OSI 420; graduates enroll in OSI 520.)
Fish species assemblages, general ecology, adaptations, and behavior of marine fishes. Emphasis on local marine fishes.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

525/425. Marine Phycolgy (4)
Prerequisite: BIOL 111, 111L, 212, 212L, 213, and 213L.
(Undergraduates enroll in OSI 425; graduates enroll in OSI 525.)
Taxonomy, phylogeny, ecology, and physiology of marine algae. Emphasis on local marine forms.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

555/455. Marine Ecological Processes (4)
Prerequisite: OSI 353 or BIOL 350 and consent of instructor; statistics recommended. (Undergraduates enroll in OSI 455; graduates enroll in OSI 555.)
Discussion of field studies on ecological principles related to marine communities. Includes an individual field research project and class projects.
Letter grade only (A-F). (Lecture 2 hrs., laboratory and field 6 hrs.) Course fee may be required.

590/490. Special Topics in Ocean Studies (1-3)
Prerequisite: Consent of instructor. (Undergraduates enroll in OSI 490; graduates enroll in OSI 590.)
Topics from selected areas of Ocean Studies. Course content will vary from section to section.
Letter grade only (A-F). May be repeated to a maximum of 6 units with the consent of instructor. Maximum credit for OSI 490/590 and/or 490L/590L limited to 6 units. Topics to be announced in the Schedule of Classes. (Lecture 1-3 hrs.) Course fee may be required.

590L/490L. Laboratory in Special Topics in Ocean Studies (1-3)
Prerequisite: Consent of Instructor. (Undergraduates enroll in OSI 490L; graduates enroll in OSI 590L.)
Topics from selected areas of Ocean Studies. Course content will vary from section to section.
Letter grade only (A-F). May be repeated to a maximum of 6 units with the consent of instructor. Maximum credit for OSI 490/590 and/or 490L/590L limited to 6 units. Topics to be announced in the Schedule of Classes. (Laboratory 1-3 hrs.) Course fee may be required.
PEACE STUDIES
College of Liberal Arts

Director: Judith Stevenson (Human Development)
Telephone: (662) 985-9914
E-mail: jstevenson@csulb.edu

Faculty: Ted Azima (Fine Arts), Amy Bippus (Communication Studies), Aaron Cargile (Communication Studies), Bev DeCleyn (Philosophy), Larry George (International Studies), Mimi Hottchickes (English), Kay LaCoste (Comparative World Literatures and Cultures), Ulma Lasiter (Geography), Sandra McLellan (Film & Electronic Arts), Charles Noble (Political Science), Jyotshala Pattnaik (Teacher Education), Pamela Peters (Human Development), Steve Ross (Linguistics), Carol Shaw-Stetten (Art), Larry Smith, American Indian Studies, Larry Steiner (Political Science), Tori Yosada (Asian and Asian American Studies)

Certificate Program in Peace Studies
(code COLACT02)

The Certificate Program in Peace Studies is designed for students who are concerned about issues of peace and social justice in contemporary society. It is founded on the principle that peace requires not only the absence of violence but also the presence of justice. In alignment with this principle, the program operates around two main premises. First, war and other forms of violence are not inevitable, despite widespread occurrence over time and space. Second, peace without social justice is not possible. Students will have the opportunity to explore past and present conflicts that inhibit the achievement of peace, and will have the opportunity to enlarge their understanding of global and human diversity problems and their solutions. Throughout the program, they will develop an understanding of the underlying causes of violence and conflict that occur at multiple social, cultural, and economic levels while developing skills to become innovators working toward promoting peace and human dignity, advancing social justice, and nurturing a sustainable environment.

This certificate can be earned in conjunction with any baccalaureate or graduate degree, can be earned through the General Education Pathway in Peace & Peace Studies while simultaneously meeting all general education requirements, and should be especially useful for students preparing for careers in humanities, education, health and social services, business, government, environmental studies, and law.

Requirements
Twenty-four (24) units in a program approved by the Director of Peace Studies, to include the following:

1. Core Theory Course (3 units): Take one of the following:
   IST 317; POSC 371

2. Core Skills Course (3 units): Take one of the following:
   COMM 411; SW 491

3. Elective Courses (15 units): Take at least one course from each of the following groups, and then one additional course from any of the groups:
   Group A: Perspectives on Peace, Conflict, Violence, and War (3 units minimum): ANTH 305; COMM 490; CRJU 101; HIST 304, 377, 495; IST 318, 355; POSC 220, 371, 455; PHIL 351; PSY 350
   Group B: Laws, Rights, Responsibilities in Peace and Conflict (3 units minimum): COMM 441; PHIL 352, 376; POSC 412
   Group C: Culture, Race, Gender Influences on Peace and Conflict (3 units minimum): ANTH 315, 311; AFRS 325; COMM 330, 412; HIST 309; LING 470; SOC 340; SPAN 490 or SPAN 593 or HIST 490; WGS 401, 430
   Group D: Empowerment and Peace-Building (3 units minimum): COMM 410, 421; CAFF 309 or FIN 309; EDP 454B; FEA 455; HDEV 364; HSC 429; NRS 401; PSY 330; SOC 427; SW 423

4. Peace Project (3 units, optional): Students in the Certificate program only should complete three units of an independent study project during their senior year with any Peace Studies faculty. Students who are simultaneously completing the General Education pathway in Conflict & Peace Studies need to take an additional 300- or 400-level GE course from groups A, B, C, or D above to complete the 24 required units in this Certificate.

Exceptions or substitutions may be made only with the approval of the Director of the Peace Studies Program.
Department Chair: Martin Herman
Department Office: McAllister Humanities Building (MHB), Rm 917
Telephone: (562) 985-4331
Website: www.csulb.edu/philos

Faculty: Paul Devereux, William M. Johnson (Emeritus), Alex Klein, Marya Lascano, Lawrence Nolan, Jason Roblley, Max Rosenkrantz, Ravi K. Sharma, Julie Van Camp, Charles Wallis, Nellee Welkend, Cory Wheat, Wayne Wright

Advisors:
Undergraduate: Marya Lascano
Graduate: Charles Wallis
Pre-Law: Julie Van Camp

Administrative Support Coordinator: Clarice Ross

Career Possibilities
- Educator
- Lawyer
- Theologian
- Diplomat
- Politician
- Writer
- Researcher
- Lobbyist
- Missionary
- Peace Corps Worker
- Foreign Service Officer
- Fund Raiser
- Development Officer
- Journalist
- Social Worker
- Sales Representative
- Management Trainee
- Claim Adjuster
- Literary Critic
- Program Specialist
- Grant Writer

Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu. Various entry-level positions in business and industry are available for graduates regardless of academic discipline.

Undergraduate Programs

Bachelor of Arts in Philosophy (code PHILBA01) (120 units)

The undergraduate Philosophy program challenges students to think rigorously about some of the most profound questions people consider: "What is most important in a human life?", "What can I know?", "Does God exist?", "Do human beings have free will?", "What are the guidelines for morality?", "What is the soul?", or "the mind"? These and other questions are raised in courses in special areas of philosophical concern such as logic, theory of knowledge, ethics, metaphysics, philosophy of religion, philosophy of science, and aesthetics. They are also raised in their historical context in courses which focus on great philosophers such as Plato, Aristotle, Kant, the great "Rationalists" and the great "Empiricists." In addition, the Philosophy curriculum encourages students to examine our contemporary situation (with such courses as Existentialism, Phenomenology, Philosophy of Language, and Political Philosophy), and to extend their thinking with the philosophies of other cultures (such as those of China, Japan, and India).

The Philosophy Pre-law Program provides undergraduates with a course of study which emphasizes the development of skills in reasoning and argumentation, in linguistic and ethical analysis, and in clear and precise communication. The Department's Center for Applied Ethics brings guest speakers to the campus and sponsors conferences, research, and new courses in medical ethics and business ethics. The Department's Center for the Advancement of Philosophy in Schools (CAPS) places advanced philosophy students into area schools to promote philosophy for children. The Department houses the Center for Cognitive Science, an interdisciplinary collaborative project that encourages a wide range of research and instructional resource development such as talks, conferences, and courses. The center is currently participating in the development of an interdisciplinary undergraduate minor in Cognitive Science. The MA program prepares students for teaching in the community colleges and for doctoral programs in philosophy.

Requirements
A minimum of 36 units in philosophy divided as follows:
Lower Division: PHIL 203, 204, and 270.
Up to 12 lower-division units may be counted toward the major, including either PHIL 100 or 160.
Upper Division: A minimum of 24 units in philosophy, including at least two courses (6 units) from each of the following groups:
- Logic, Metaphysics, Epistemology: PHIL 330, 342, 3811, 382, 4821, 483, 484, 493
- Values and Evaluation: PHIL 3541, 3591, 3611, 3633, 401, 4031, 4061, 4511, 4521, 4531, 4551, 4561, 4562, 496

The required 6 upper-division units remaining are to be selected from philosophy courses with the advice and consent of the student's departmental advisor, and may include PHIL 497H and 498H.

Pre-Law Emphasis
The pre-law emphasis requires the same minimum 36 units required for the major. Prelaw students should include at least four of the following in their course of study: PHIL 3511, 3521, 3633, 401, 4031, 4061, 4511, 4521, 4531, 4551, 4561, 496.

Honors in Philosophy
The Honors in Philosophy program prepares qualified undergraduate philosophy majors with an opportunity to do independent research with a faculty member on a topic of interest to the student and to present the results of that study to other students in a seminar format. The Program has two curricular components:
1. a year-long, two-semester directed studies course (PHIL 498H: Undergraduate Honors Thesis) in which the student learns about advanced research techniques and writes an undergraduate thesis under the close supervision of a faculty member; and
2. a seminar (PHIL 497H: Undergraduate Honors Seminar) in which honors students meet weekly to discuss work in progress and present a final thesis. The Seminar is designed each year with readings, discussions, and discussions...
critiques of student work around the themes of the honors student theses projects that year.
To be eligible for the program, students must:
A. have a 3.3 GPA in the philosophy major and a 3.0 GPA overall;
B. successfully complete all lower-division courses for the major (PHIL 203, 204, and 270);
C. successfully complete at least nine (9) units of upper-division philosophy courses (at least six [6] units at
   CSULB);
D. obtain written agreement from a philosophy faculty member to serve as the Honors Thesis Advisor.
Students enroll in PHIL 498H (Undergraduate Honors Thesis) in Fall and Spring (3 units each semester), and
in PHIL 497H (Undergraduate Honors Seminar) in Spring (3 units), for a total of 9 units in the program. Students
who have been admitted to the honors program and have successfully completed these requirements, along with
the regular requirements for the Major in Philosophy, will graduate with Honors in Philosophy.

Minor in Philosophy (code PHILUM01)
The minor in philosophy provides a structured yet flexible program for the student majoring in a different discipline,
but who is interested in philosophy either as an adjunct to the degree major or as a foundation for the student’s future
intellectual life.
The Minor in Philosophy is available to any non-Philosophy major.

Requirements
A minimum of 18 units in philosophy, divided as follows:
Upper Division: PHIL 203, 204, and 270.
Upper Division: A minimum of 9 units in philosophy, including at least one course (3 units) from each of the
following groups:
Logic, Metaphysics, Epistemology: PHIL 303, 342, 381H, 382, 421, 483, 484, 493
Values and Evaluation: PHIL 351, 352, 361H, 363, 401, 4031, 405I, 451, 4521, 455, 461I, 489, 496

Graduate Programs

Master of Arts in Philosophy
(code PHILMA01)
The Department of Philosophy offers graduate study leading to the Master of Arts degree. The candidate must
satisfy the general requirements stated in this Catalog as well
and more fully in the Philosophy Graduate Student Handbook (available upon request). Applicants must submit to the
University’s Office of Admissions and Records a graduate application (available at that office or on-line). Applicants
must also submit two sets of transcripts from all colleges and universities attended. One set must be submitted to the
Office of Enrollment Services and another set must be sent directly to the Department of Philosophy. Prospective students
should see the Graduate Advisor for assessment and to plan a program of study. Departmental resident positions are
sometimes available for qualified persons, as are Graduate Assistantships. A reader works closely with a member of the
class and is not responsible for instruction. Application for these positions can be made to the Chair of the Philosophy
Department.

Prerequisites

Admission with Classified Status

An applicant may be admitted to the M.A. program in Philosophy in classified status (see the relevant sections in the
Catalog under “Graduate and Post-baccalaureate Applicants”) only after satisfying University requirements for
admission and the following prerequisites to this degree:

1. A bachelor’s degree with a minimum of 24 units of upper-
   division philosophy courses. These courses must be
   comparable to those required for the B.A. in philosophy at
   this University, and must indicate proficiency in the general
   areas of epistemology, metaphysics, ethics, and symbolic
   logic. Deficiencies to be rectified will be determined by the
   Graduate Advisor after consultation with the student and
   after study of transcript records.

2. Satisfactory performance on the Department’s Basic Qualifying Exam (BQE).

Admission with Conditionally Classified Status

Until students have met the requirements for classified
status, they may be admitted and attend the university
with conditionally classified status. Conditionally classified
students who at entry to the philosophy program as a
graduate student have been determined to have no
deficiencies in prerequisite preparation must attempt the
Basic Qualifying Exam (BQE) by the end of their second
(academic year) semester in the program and pass it by
the end of their third (academic year) semester in order
to achieve classified status. Conditionally classified student
who must rectify a deficiency must attempt the BQE by the end of
their third (academic year) semester in the program and
pass it by the end of their fourth (academic year) semester in
order to achieve classified status. (Winter Term and Summer
Session do not count as academic year semesters.)

Basic Qualifying Exam

The BQE comprises two sections that assess the
graduate student’s philosophical foundation and knowledge.
There is a Text portion and an Analytic portion. The analytic
section of the BQE assesses the student’s ability to extract,
explain, and evaluate arguments from short passages.
In reconstructing and evaluating these arguments, the
student must demonstrate an understanding of basic logical
concepts, such as validity, soundness, and cogency. The text
section of the BQE assesses the student’s ability to read,
interpret, and critically evaluate a more lengthy philosophical
text. Successfully passing the text section also requires
general philosophical and historical knowledge, insofar as
these are relevant to the contextual understanding of the text.
Students may attempt one or both sections of the BQE on
those occasions when it is administered. Normally, students
must pass both parts of the BQE by their second attempt.
The BQE must be passed in order for students to achieve
classified status in the graduate program.
Advancement to Candidacy

Advancement to Candidacy is the next step after acquiring classified status (and cannot take place until then) and confers catalog rights to graduate students. Advancement to Candidacy also signifies approval of a plan of study by the student's department and college. The requirements for advancement, which must be achieved at least one semester before graduation can occur and can only occur in a semester in which the student is enrolled, are:

1. Fulfillment of the CSULB Graduate Writing Assessment Requirement (GWAR)
2. The student must maintain a minimum 3.0 overall grade point average in all units undertaken in the philosophy program
3. Approval of a program of study by the Graduate Advisor, and approval by the department faculty of either a thesis proposal or a proposed set of three comprehensive examinations (see the Graduate Student Handbook for details).
4. Although there is no formal language requirement, the philosophy department may require the student to demonstrate foreign language proficiency if a language proficiency is appropriate to the area of study.

Requirements for the Degree

1. The student's graduate program must consist of not less than 30 units of acceptable upper division and graduate courses, of which at least 24 units must be in philosophy. The remaining 6 units must be chosen in conjunction with the student's faculty advisor and may be taken either in philosophy or in another field of study closely related to the candidate's educational objectives. The program must include a minimum of 18 units of philosophy graduate courses, with a minimum of 6 units from the 690 series. PHIL 687 and 688 may not count toward fulfillment of the 690 series minimum requirement. Undergraduate level courses in Philosophy do not count toward the MA degree requirements. However, under special circumstances and at the discretion of the Graduate Advisor, undergraduate level courses from outside the major may count toward the MA in Philosophy when such work is essential to the successful completion of the student's proposed MA thesis or comprehensive examination preparation.

2. A thesis and oral defense thereof, or a set of three comprehensive examinations.

The Center for Medieval and Renaissance Studies

The Center for Medieval and Renaissance Studies offers two programs to students who want to study medieval and Renaissance political and social history, art, literature, philosophy, religion, music, and drama. Undergraduate students can pursue a Certificate or a minor in Medieval and Renaissance Studies. Graduate students can pursue a Certificate in Medieval and Renaissance Studies. Interested students should turn to the catalog section entitled "Medieval and Renaissance Studies" and/or contact the program directors in MHS 512.

Courses (PHIL)

LOWER DIVISION

100. Introduction to Philosophy (3)
Prerequisites/Corequisites: Any course from GE Foundation categories A.1 (Written English), A.2 (Oral Communication) or A.3 (Critical Thinking), which may be taken concurrently.
Critical analysis of the history, methods, and major problems of philosophy.

160. Introductory Ethics (3)
Prerequisites/Corequisites: Any course from GE Foundation categories A.1 (Written English), A.2 (Oral Communication) or A.3 (Critical Thinking), which may be taken concurrently.
Concepts of right and wrong, good and bad, and the application of moral principles to problems of everyday life.
Not open for credit to students with credit in PHIL 160W.

170. Critical Reasoning (3)
Prerequisites: Completion of GE Foundation requirements
Category A.1 (Written English), which may be taken concurrently.
Elements of clear, straight, orderly and valid thought, including deductive and inductive reasoning and the accurate use of language. The course explores practical applications of logic.

203. History of Early Western Philosophy (3)
Prerequisite: Completion of GE Foundation requirements.
From Thales to the Renaissance including the systems of Socrates, Plato and Aristotle, and their influence on European philosophy through the medieval period.

204. History of Modern Western Philosophy (3)
Prerequisite: Completion of GE Foundation requirements.
Western philosophy from the Renaissance to Kant, including the development of modern scientific processes, and the philosophical systems of empiricism, rationalism, transcendental idealism, etc.

270. Symbolic Logic I (3)
Introduction to the formal techniques of evaluating arguments.

296. Methods of Philosophical Study (3)
Prerequisite: Three units in Philosophy.
Course prepares the student for philosophical study through education in its research methods and technical vocabulary, by instructing students in how to write a successful philosophical essay, and explaining the scope and nature of some of the central issues of philosophy.

Early Philosophy

306. Philosophies of China and Japan
307. Philosophies of India
421/521. Plato
422/522. Aristotle
490/690. Special Topics – Early Philosophy

Modern Tradition

413/513. Continental Rationalism
414/514. British Empiricism
423/523. Kant
424/524. Hegel
425/525. Wittgenstein
491/691. Special Topics – The Modern Tradition

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### Twentieth Century Philosophy

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>415.516</td>
<td>Pragmatism</td>
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<td>417.517</td>
<td>Phenomenology</td>
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<td>418.518</td>
<td>Existentialism</td>
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<td>419.519</td>
<td>Analytic Philosophy</td>
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<tr>
<td>492.592</td>
<td>Special Topics – Twentieth Century Philosophy</td>
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### Metaphysical Studies

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<tbody>
<tr>
<td>330</td>
<td>Philosophy of Religion</td>
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<tr>
<td>342</td>
<td>Metaphysics</td>
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<tr>
<td>483.583</td>
<td>Philosophical Psychology</td>
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<tr>
<td>493.593</td>
<td>Special Topics – Metaphysical Studies</td>
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### Epistemological Studies

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<td>381</td>
<td>Philosophy of Science</td>
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<td>382</td>
<td>Theory of Knowledge</td>
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<tr>
<td>482.8</td>
<td>Introduction to Cognitive Science</td>
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### Studies in Logic and Semantics

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<tr>
<td>484</td>
<td>Philosophy of Language</td>
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### Studies in Value and Evaluation

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<tr>
<td>351</td>
<td>Political Philosophy</td>
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<td>352</td>
<td>Philosophy of Law</td>
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<td>361</td>
<td>Philosophy of Art and Beauty</td>
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<td>363</td>
<td>Ethical Theory</td>
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<td>401</td>
<td>Philosophy in Education</td>
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<td>403</td>
<td>Medical Ethics</td>
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<td>405</td>
<td>Philosophy in Literature</td>
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<tr>
<td>451</td>
<td>Liberty and Justice: Race, Ethnicity, and Gender in American Law</td>
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<tr>
<td>459</td>
<td>Law, Philosophy, and the Humanities</td>
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<tr>
<td>455</td>
<td>Philosophical Perspectives on Sex and Love</td>
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<td>461</td>
<td>Diversity in Criticism and Analysis of the Arts</td>
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<td>Philosophy Internship/Pre-Law</td>
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<tr>
<td>496.596</td>
<td>Special Topics – Value and Evaluation</td>
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### UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course, except where otherwise stated. Students must complete the following lower division courses before taking upper division courses:

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>360</td>
<td>Philosophy of China and Japan (3)</td>
</tr>
<tr>
<td>307</td>
<td>Philosophy of India (3)</td>
</tr>
<tr>
<td>330</td>
<td>Philosophy of Religion (3)</td>
</tr>
</tbody>
</table>

Prerequisites:

- **Political Philosophy**: Completion of GE Foundation requirements. Historical and critical study of the philosophical thought of China and Japan.
- **Philosophy of India**: Completion of GE Foundation requirements. Historical and critical survey with emphasis on basic ideas and traditions.
- **Philosophy of Religion**: Completion of GE Foundation requirements. Nature and function of religion and of fundamental religious concepts and ideas.

Prerequisite: 3 units of philosophy or consent of instructor.

Problems of ontology and cosmology including such concepts as matter and energy, time and space, evolution and causality.

**351. Political Philosophy (3)**
Prerequisite: Completion of GE Foundation requirements, and upper division standing.
Analysis of fundamental political concepts such as the legitimacy of government, the relation of justice to coercive power, the morality of war, political obligation, and sovereignty; and for a study of political ideologies such as socialism, classical liberalism, and conservatism.

**352. Philosophy of Law (3)**
Prerequisite: Completion of GE Foundation requirements, one or more Exploration courses, and upper division standing.
Study of the historical development of the philosophy of law and examination of the problems in the field ranging from general theories to analysis of fundamental legal concepts and normative issues.

**361. Philosophy of Art (3)**
Prerequisite: Completion of GE Foundation requirements, one or more Exploration courses, and upper division standing.
Discussion of central problems in aesthetics, such as possibility of objectivity in criticism, modern and traditional definitions of a work of art, truth and meaning in the fine arts, natural beauty and its relationship to excellence in music, architecture, etc.

**363. Ethical Theory (3)**
Prerequisite: Completion of GE Foundation requirements, 3 units of philosophy.
In-depth discussion of such issues as obligation, responsibility, social justice, and personal ideals.

**381. Philosophy of Science (3)**
Prerequisite: Completion of GE Foundation requirements, one or more Exploration courses, and upper division standing.
Problems, methods, and fundamental concepts of the sciences, including the relationships of the sciences to each other, to mathematics and to philosophy.

**382. Theory of Knowledge (3)**
Prerequisite: Three units of philosophy.
Investigation of such concepts as knowledge, belief, certainty. Critical study of theories concerning such issues as our knowledge of the external world, the past, other minds.

**400. Business Ethics (3)**
Prerequisites: Completion of G.E. Foundation requirements, at least one Exploration course.
Study of types of ethical dilemmas that take place in business organizations. Acquire concepts and tools needed to manage these complex value conflicts for the well being of individuals, organizations, and society.
Letter grade only (A-F). Same course as CBA 400L. Not open for credit to students with credit in CBA 400L.

**401. Philosophy in Education (3)**
Prerequisites: Completion of the GE Foundation; at least six units of philosophy, and consent of instructor.
Examine philosophical works on education, analyze common exclusion of philosophy from K-12 curriculum, explore integration of philosophy into K-12 curriculum. Student is placed in local school district to lead weekly philosophy sessions. Service Learning.
May be repeated to a maximum of 6 units in different semesters.

**403. Medical Ethics (3)**
Prerequisites: Completion of G.E. Foundation requirements; at least one Explorations course.
Covers main areas of bioethics: reproductive rights and liberties, definitions of health, disease, and disability, end of life care, distribution of health care, goals of health care. Philosophical texts, journal articles from medical humanities, ethics, medicine, and case studies used.

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405. Philosophy In Literature (3)
Prerequisites: Completion of G.E. Foundation requirements; at least one Exploration course in philosophy, literature, theater arts; upper-division standing required.
Intensive exploration of philosophical ideas in selected literature with special attention to both philosophical and literary ways of reading and appreciating a text.
Not open for credit to students with credit in PHIL 305.

413./513. Continental Rationalism (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent of instructor.
Close study of such major figures as Descartes, Spinoza and Leibniz.

414./514. British Empiricism (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent of instructor.
Close study of such major figures as Locke, Berkeley, and Hume.

416./516. Pragmatism (3)
Prerequisite: Three units of philosophy or consent of instructor.
Development of pragmatism as exemplified in the philosophies of Peirce, James, Dewey and Mead.

417./517. Phenomenology (3)
Prerequisites: Six units of philosophy or consent of instructor.
Study of one of the major movements of contemporary philosophy. Themes treated may include knowledge, meaning, emotionality, embodiment, language, society, freedom and religion. Philosophers treated may include Husserl, Scheler, Heidegger, Merleau-Ponty and Ricoeur.

418./518. Existentialism (3)
Prerequisites: Three units of philosophy or consent of instructor.
Introductory study of such issues as self-as-existence, freedom and responsibility in their ethical, religious, political and aesthetic dimensions. Philosophers treated may include Kierkegaard, Nietzsche, Marcel, Jaspers, Sartre and Camus.

419./519. Analytic Philosophy (3)
Prerequisites: Six units of philosophy to include PHIL 270, or consent of instructor.
Analysis of major movements in development of Anglo-American philosophy in the twentieth century, such as logical atomism, logical positivism and ordinary language philosophy. Study of contributions of such philosophers as Moore, Russell, Wittgenstein, Ayer, Ryle, Austin, Strawson, and Quine.
Letter grade only (A–F).

421./521. Plato (3)
Prerequisites: Six units of philosophy to include PHIL 203, or consent of instructor.
Close study of Plato’s thought, based primarily on readings from his works.

422./522. Aristotle (3)
Prerequisites: Six units of philosophy to include PHIL 203, or consent of instructor.
Close study of Aristotle’s thought, based primarily on readings from his works.

423./523. Kant (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent of instructor.
Intensive study of Kant’s Critique of Pure Reason.

424./524. Hegel (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent of instructor.
Study of Hegel’s Philosophy of Mind and Logic, and selected writings by Hegel and other topics.

425./525. Wittgenstein (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent of instructor.
Close study of the later philosophy of Wittgenstein, centering on Philosophical Investigations.

451. Liberty and Justice: Race, Ethnicity, and Gender in American Law (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing, and 6 units of philosophy, or consent of instructor. Junior standing required; Senior standing recommended.
Philosophical and legal analysis of how liberty and justice for different races, ethnic groups and genders have been treated in American law.

452. Law, Philosophy, and the Humanities (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing (junior standing required; senior standing recommended). Six units of philosophy or consent of instructor.
A comparison of how the law is considered by various disciplines; primary focus is on philosophical methods and legal methods, with some consideration of other humanities disciplines, such as literature.

455. Philosophical Perspectives on Sex and Love (3)
Prerequisite: Six units of philosophy or consent of instructor.
Philosophical perspectives on sex and love explore philosophical issues concerning sex, gender and love through readings and discussion of classical and contemporary philosophical sources. Topics such as sexual perversion, romantic love and gender discrimination.
Same course as WGST 455. Not open for credit to students with credit in WST 455 or WGST 455.

461. Diversity in Criticism and Analysis of the Arts (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing (junior standing required; senior standing recommended).
Philosophical and critical consideration of the arts by different races, ethnic groups, and genders in the United States.

481. Introduction to Cognitive Science (3)
Prerequisites: Completion of GE Foundation requirements; at least one Explorations course; upper-division standing; at least six units in two areas chosen from Computer Science, Linguistics, Philosophy, and Psychology.
Introduction to cognitive science including historical development, foundational philosophical presuppositions, core topics, underlying theoretical framework, explanatory goals, different methodologies and theoretical contributions of its constitutive disciplines.
Same course as PSY 362. Not open for credit to students with credit in PSY 362.

483./583. Philosophical Psychology (3)
Prerequisites: Six units of philosophy or consent of instructor.
Nature of the mind. Psychological concepts such as intention, consciousness, action, motive, imagination, belief and purpose.

484./584. Philosophy of Language (3)
Prerequisites: Six units of philosophy or consent of instructor.
Philosophical thought about language and meaning.

489. Philosophy Internship/Pro-Law (1-6)
Prerequisites: Consent of Philosophy Department Chair; completion of a minimum of 15 upper-division units required for the Philosophy major.
Internship with private organizations and governmental agencies. Work done under the joint supervision of the program sponsor and CSULB Philosophy Pro-Law Advisor. Mid term, final report and internship conferences are required. (Activity 9 hours)
490/590. Special Topics: Early Philosophy (3)
Prerequisites: Six units of philosophy or consent of instructor.
Detailed and intensive study of figures, periods or issues in ancient or
medieval philosophy.
Specific issues, period or figures will be announced in the Schedule
of Classes. May be repeated to a maximum of 9 units with different
topics.

491/591. Special Topics: Modern Tradition (3)
Prerequisites: Six units of philosophy or consent of instructor.
Detailed and intensive study of a significant philosopher or of some
issue or theme of the modern (1850-1950) philosophical era.
Specific titles will be announced in the Schedule of Classes. May be
repeated to a maximum of 9 units with different topics.

492/592. Special Topics: Twentieth Century Philosophy (3)
Prerequisites: Six units of philosophy or consent of instructor.
Detailed and intensive study of a significant philosopher or of a
school or movement of the twentieth century.
Specific title will be announced in the Schedule of Classes. May be
repeated to a maximum of 9 units with different topics.

493/593. Special Topics: Metaphysical Studies (3)
Prerequisites: Six units of philosophy or consent of instructor.
Seminar study of a selected metaphysical topic. Sample topics: Time,
Personal Identity, Philosophical Theology, Philosophy of Action,
Process Philosophy.
Specific title will be announced in the Schedule of Classes. May be
repeated to a maximum of 9 units with different topics.

495/595. Special Topics: Value and Evaluation (3)
Prerequisites: Six units of philosophy or consent of instructor.
Seminar study of a selected topic in value or evaluation. Sample
topics: Theories of Value, Freedom and Determinism.
Specific topics will be announced in the Schedule of Classes. May be
repeated to a maximum of 9 units with different topics.

497H. Undergraduate Honors Seminar (3)
Prerequisites: 1) Admission to the undergraduate Honors Program
in Philosophy, 2) Undergraduate Honors Thesis (PHIL 498) or (with
consent of instructor) taken concurrently.
A capstone seminar designed to prepare exceptional undergraduate
majors for graduate study in philosophy and other disciplines.
Complements Undergraduate Honors Thesis (PHIL 498).
Letter grade only (A-F).

498H. Undergraduate Honors Thesis (3)
Prerequisites: Admission to the undergraduate Honors Program in
Philosophy.
Directed Studies course on a topic chosen by students in consultation
with their Honors Thesis Director. Students register for thesis credits
both fall and spring terms. Students are also required to register for
PHIL 497 during the spring term.
Letter grade only (A-F). May be repeated to a maximum of 6 units in
different semesters.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study of special topics under supervision of a faculty
member. May be repeated to a maximum of 6 units.

GRADUATE LEVEL

513/413. Continental Rationalism (3)
Prerequisites: Six units of philosophy to include PHIL 204, or consent
of instructor.
Close study of such major figures as Descartes, Spinoza and Leibniz.
Letter grade only (A-F).

514/414. British Empiricism (3)
Prerequisites: Six units of philosophy to include PHIL 204, or
consent of instructor.
Close study of such major figures as Locke, Berkeley, and Hume.
Letter grade only (A-F).

516/416. Pragmatism (3)
Prerequisites: Three units of philosophy or consent of instructor.
Development of pragmatism as exemplified in the philosophies of
Peirce, James, Dewey and Mead.
Letter grade only (A-F).

517/417. Phenomenology (3)
Prerequisites: Six units of philosophy or consent of instructor.
Study of one of the major movements of contemporary philosophy.
Theories treated may include knowledge, meaning, emotionality,
embodiment, language, sociality, freedom and religion. Philosophers
treated may include Husserl, Scheler, Heidegger, Merleau-Ponty
and Ricoeur.
Letter grade only (A-F).

518/418. Existentialism (3)
Prerequisites: Three units of philosophy or consent of instructor.
Intensive study of such issues as self-as-existence, freedom and
responsibility in their ethical, religious, political and aesthetic
dimensions. Philosophers treated may include Kierkegaard,
Nietzsche, Marx, Jaspers, Sartre and Camus.
Letter grade only (A-F).

519/419. Analytic Philosophy (3)
Prerequisites: Six units of philosophy to include PHIL 270, or
consent of instructor.
Analysis of major movements in development of Anglo American
philosophy in the twentieth century, such as logical atomism, logical
positivism and ordinary language philosophy. Study of contributions
of such philosophers as Moore, Russell, Wittgenstein, Ayer, Ryle,
Austin, Strawson, and Quine.
Letter grade only (A-F).

521/421. Plato (3)
Prerequisites: Six units of philosophy to include PHIL 203, or
consent of instructor.
Close study of Plato’s thought, based primarily on readings from his
works.
Letter grade only (A-F).

522/422. Aristotle (3)
Prerequisites: Six units of philosophy to include PHIL 203, or
consent of instructor.
Close study of Aristotle’s thought, based primarily on readings from
his works.
Letter grade only (A-F).

523/423. Kant (3)
Prerequisites: Six units of philosophy to include PHIL 204, or
consent of instructor.
Intensive study of Kant’s Critique of Pure Reason.
Letter grade only (A-F).

524/424. Hegel (3)
Prerequisites: Six units of philosophy to include 204, or consent
of instructor.
Study of Hegel’s Philosophy of Mind and Logic, and selected
writings by Hegel and other topics.
Letter grade only (A-F).

525/425. Wittgenstein (3)
Prerequisites: Six units of philosophy to include PHIL 204, or
consent of instructor.
Close study of the later philosophy of Wittgenstein, centering on
Philosophical Investigations.
552. Advanced Studies in Law, Philosophy, and the Humanities (3)
Prerequisites: Graduate standing.
Composition of how the law is considered by various disciplines; primary focus is on philosophical methods and legal methods, with some consideration of other humanities disciplines, such as literature.

555.J455. Philosophical Perspectives on Sex and Love (3)
Prerequisites: Six units of philosophy or consent of instructor.
Philosophical perspectives on sex and love explore philosophical issues concerning sex, gender and love through readings and discussion of classical and contemporary philosophical sources. Topics such as sexual perversion, romantic love and gender discrimination are examined.

583.J483. Philosophical Psychology (3)
Prerequisite: Six units of philosophy or consent of instructor.
Nature of the mind. Psychological concepts such as attention, consciousness, action, motive, imagination, belief and purpose.
Letter grade only (A-F).

584.J484. Philosophy of Language (3)
Prerequisites: Six units of philosophy or consent of instructor.
Philosophical thought about language and meaning.
Letter grade only (A-F).

590.J490. Special Topics: Early Philosophy (3)
Prerequisites: Six units of philosophy or consent of instructor.
Study of figures, periods or issues in ancient or medieval philosophy.
Specific issues, period or figures will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

591.J491. Special Topics: Modern Tradition (3)
Prerequisites: Six units of philosophy or consent of instructor.
Study of a significant philosopher, or of some issue or theme of the modern (1800-1900) philosophical era.
Specific topics announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

592.J492. Special Topics: Twentieth Century Philosophy (3)
Prerequisites: Six units of philosophy or consent of instructor.
Study of a significant philosopher or of a school or movement of twentieth century. Specific title will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

593.J493. Special Topics: Metaphysical Studies (3)
Prerequisites: Six units of philosophy or consent of instructor.
Seminar study of a selected metaphysical topic.
Specific title will be announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

596.J496. Special Topics: Value and Evaluation (3)
Prerequisites: Six units of philosophy or consent of instructor.
Seminar of selected topic in value or evaluation. Sample topics: Theories of Value, Freedom and Determinism.
Specific topics announced in the Schedule of Classes. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

597. Teaching Philosophy (3)
Prerequisites: Six units of philosophy or consent of instructor.
A practical and theoretical introduction to the aims, methods, responsibilities, and ethics of teaching in the college classroom, with an emphasis on the specific issues involved in teaching philosophy.
Letter grade only (A-F).

599. Graduate Tutorial (1-3)
Prerequisite: Consent of the instructor.
Supervised independent study.
Seniors with a GPA of 3.0 or better may enroll with consent of Department. May be repeated to a maximum of 6 units. Letter grade only (A-F).

620. Seminar in History of Philosophy (3)
Prerequisite: Consent of instructor.
Close study of selected objects in the history of philosophy. The original language may be required.
May be repeated to a maximum of 9 units with different topics.
Letter grade only (A-F).

630. Seminar in Philosophy of Religion (3)
Prerequisite: PHL 330 or consent of instructor.
Critical examination of selected issues, figures and movements.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

663. Seminar in Ethics (3)
Prerequisite: PHL 363 or consent of the instructor.
Systematic examination of topics (such as human rights, pleasure) and theories (such as utilitarianism, contract theory) which are central to moral reasoning.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

680. Seminar in Epistemology (3)
Prerequisite: PHL 382 or consent of instructor.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

681. Seminar in the Philosophy of Science (3)
Current issues in the philosophy of science.
May be repeated to a maximum of 6 units with different topics.
Letter grade only (A-F).

690. Seminar in Selected Topics of Current Interest (3)
Presentation, discussion and critical evaluation of advanced work (which may include original research of faculty and graduate students) in selected topics of current interest to professional philosophers.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Consent of the student's advisor.
Letter grade only (A-F).

698. Thesis (1-6)
Prerequisite: Consent of graduate advisor.
Preparation and completion of a thesis in philosophy and oral defense thereof.

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PHYSICAL THERAPY
College of Health and Human Services

Department Chair: Kay Cerny
Department Office: Engineering Technology Building, Room 130
Telephone: (562) 985-4072
Faculty: Joyce Campbell, Charles L. Carter, Kay Cerny, Jody Cormack, Fatimah Mohamed, Albert C. Russo
Department Coordinator: Gloria Doconay

Graduate Programs

Master of Physical Therapy (code PT__MT01)

The Master of Physical Therapy program is designed to provide entry-level professional preparation to become a physical therapist. The curriculum consists of 68-units of course work preceded by a year of upper division prerequisite courses offered at the University. Applicants to the program must have a Bachelor’s degree and have completed specific lower division prerequisite course work. Following didactic course work, students complete a 24-week internship required for state licensure. Graduates will be prepared to assume responsible, evidence-based clinical practice in a broad spectrum of physical therapy settings and to respond to the changing expectations of an expanding body of knowledge in physical therapy.

Requirements

Complete all prerequisite courses with a minimum of “C” and a minimum grade point average of 3.0 in upper division prerequisites. The Master of Physical Therapy program requires completion of all prerequisite and professional course work described in the following:

Program Prerequisites

Natural Sciences: CHEM 111A, 111B, PHYS 100A, 100B
Biological Sciences: BIOC 208, 211, 211L, 212, 212L, and either 207 or 213, 213L for a total of 12 units, BIOC 341, 441, HHIS 401, 402, 403, 460, 471
Biostatistics: BIOC 260 preferred
Behavioral Sciences: PSY 100, HHIS 374

MPT Core Requirements

Core: PT 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 515, 522, 523, 524, 574, 604, 605, 607, 608, 620, 622, 674, 696, 697 or 698
Electives: PT 590, 611-619 (2 units)

Admission to the Master of Physical Therapy Program

The physical therapy master’s program is open to all college graduates who have met prerequisite requirements and demonstrate academic promise and ability to perform at a satisfactory level during their graduate studies. Application deadline is January 15 for fall admission. To be considered for acceptance into the graduate program, the applicant must:

1. Complete all prerequisite courses with a minimum of “C” and a minimum grade point average of 3.0 in upper-

division prerequisite coursework;
2. Hold, or be eligible to hold, an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by an appropriate campus authority;
3. Have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted;
4. Submit results of the General Aptitude Section of the Graduate Record Examination (quantitative, verbal, and analytical), taken within the past 5 years;
5. Provide academic and personal references as required;
6. Provide documentation of personal experience in a variety of physical therapy settings; and
7. Be recommended by the physical therapy faculty.
8. All candidates whose preparatory education was principally in a language other than English must demonstrate competency in English. Refer to the CSULB Bulletin for requirements for completing the Test of English as a Foreign Language (TOEFL).

The master’s degree program is a 68-unit, four semester plus one summer session, full-time course of study followed by an internship of 12 units. The course of study is most appropriate for graduates with degrees in related fields but does not exclude the person holding a baccalaureate degree in physical therapy. Course work is designed for entry-level professional study.

Advancement to Candidacy Requirements

1. Classified graduate student status.
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
3. A minimum 3.0 grade-point average in all program graduate work as well as a minimum overall 3.0 in all graduate work attempted.
4. Be recommended by a faculty sponsor.
5. Enrollment in regular session.
6. Satisfactory completion of at least one semester of the program.

Requirements for Admittance to Clinical Practice

1. Complete all requirements for the master’s at the time of application to clinical practice.
2. Successfully complete either (a) a research thesis or project (PT 698) or (b) directed studies (PT 697) under the guidance of a faculty advisor.
3. If choice b (above) is selected (PT 697) the student must also successfully complete a program comprehensive examination.

Postgraduate Physical Therapy Internship Certificate (code PT__CT01)

Requirements

12 units of PT 525, 526 and/or 527 (must be completed to be eligible to take the state examination for licensure).

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501. Musculoskeletal and Biomechanical Principles (4)
Prerequisites: HHS 401, 402, 403.
Advanced study of joint mechanics and pathomechanics with application to therapeutic procedures, postural and movement of the limbs, temporomandibular joint, neck and trunk. Includes normal gait.
Lecture grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours.)

502. Pathological Gait (1)
Prerequisite: PT 501
Kinetics and kinematics of pathological gait with application to persons with gait disability. Emphasis is on gait analysis and problem solving causes of deviations.
Lecture grade only (A-F). (Laboratory 3 hours)

503. Management of Individuals with Musculoskeletal Disorders I (3)
Prerequisites: PT 501
Physical therapy evaluative process for patients with musculoskeletal disorders including examination, evaluation, diagnosis, prognosis, including anticipated outcomes, criteria for discharge and reexamination.
Lecture grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

504. Management of Individuals with Musculoskeletal Disorders II (4)
Prerequisites: PT 501, 503
The interventions for individuals with disorders of the musculoskeletal system including exercise prescription, strengthening programs, effects of disease, mobility, wellness and prevention, theories of pain and pain management and selected preferred practice patterns provided by physical therapists.
Lecture grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours.)

505. Management of Human Growth and Development (2)
Prerequisites: HHS 401, 460.
Investigation and analysis of human development from birth to senescence with emphasis on concepts of motor, skeletal and neurological development processes necessary to prepare for evaluation and treatment intervention in musculoskeletal and neurological disabilities.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

506. Exercise Physiology for Physical Therapy (2)
Prerequisites: BIOL 341, 441; HHS 401, 460, 471.
Study of systems critical for patient management that are challenged and altered by exercise in health and pathology. Includes exercise measurement, test design, equipment, and pharmacology of exercise.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

507. Examination of Individuals with Neuromuscular Disorders (2)
Prerequisite: HHS 460.
Physical therapist evaluative process for patients with neuromuscular disorders. Includes examination (task and movement analysis, tools and measures for body structure and function, activity, and participation), evaluation, diagnosis, prognosis, anticipated goals, expected outcomes, re-examination, and criteria for discharge.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

508. Management of the Pediatric Population (2)
Prerequisites: PT 505, 507.
Physical therapy management of the pediatric patient/client with neuromusculoskeletal disorders. Includes examination, evaluation, diagnosis, prognosis and intervention (with anticipated goals) including reexamination, outcomes and criteria for discharge. Includes pathophysiology, clinical decision making, and prevention/risk factor reduction.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

509. Management of the Cardiopulmonary System (3)
Prerequisites: BIOL 341, 441; PT 505, 507.
Physical therapy management of patients with cardiopulmonary disorders including examination, evaluation, diagnosis, prognosis and intervention (with anticipated goals) including reexamination, outcomes and criteria for discharge. Includes prevention/risk factor reduction.
Lecture grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.) Course fee may be required.

510. Patient Management and Functional Training (2)
Prerequisites: HHS 401, 452 and admission to MPT program.
Patient/client management with emphasis on adaptive and functional training and participation, irrigation for abdominal and home management (including activities of daily living and instrumental activities of daily living) and wound management. May include lectures from medical and physical therapy practitioners.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

511. Management of the Geriatric Population (3)
Prerequisites: PT 503, 594, 505, 507.
Physical therapy management of the geriatric patient/client including examination, evaluation, diagnosis, prognosis and intervention (with anticipated goals) including reexamination, outcomes and criteria for discharge. Includes prevention/risk factor reduction.
Lecture grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.) Course fee may be required.

512. Clinical Electrophysiology I (3)
Prerequisites: BIOL 341; HHS 402, 460.
The investigation of the physiological and neurological basis for the selection of electrophysiological assessment tools and for the selection of electrophysical intervention in the management of neuromusculoskeletal disorders. Includes specific interventions for the management of the patient/client with neuromuscular disorders.
Lecture grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.) Course fee may be required.

513. Clinical Electrophysiology II (2)
Prerequisites: PT 512.
Physiological considerations in the use of neuro stimulation and electromyography with the patient/client with neuromuscular disorders emphasizing the rationale for the selection of electrical stimulation techniques for physical therapy intervention as well as functional use of electrical stimulation. Electrophysical interventions.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.) Course fee may be required.

515. Management of Individuals with Neuromuscular Disorders (2)
Prerequisite: PT 507, Corequisite: PT 523.
Evidence-based physical therapist interventions for patients with disorders of the neuromuscular system including movement facilitation, education, and prevention/risk factor reduction.
Lecture grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)
522. Clinical Practice I (1)
   Prerequisites: PT 503, 507, 509, 510
   Six weeks of supervised full-time clinical practice in the acute care or
   outpatient orthopedic setting. Includes examination, evaluation, inter-
   vention, advocacy, and client/family caregiver education.
   Credit/No Credit grading only. May be repeated to a maximum of 2
   units in different semesters. (Clinical Practice 6 weeks)

523. Clinical Practice II (1)
   Prerequisite: PT 522. Corequisite: PT 515
   Supervised pro bono clinical practice for management of the client
   with disorders of the neuromuscular system. Includes examination,
   evaluation, intervention, advocacy, and client/family caregiver
   education.
   Credit/No Credit grading only. (Clinic 1 hour)

524. Clinical Practice III (1)
   Prerequisites: PT 507, 515, 523. Corequisite: PT 505
   Supervised advanced pro-bono clinical practice for management
   of the client with disorders of the neuromuscular system. Includes
   examination, evaluation, intervention, advocacy, and client/family
   caregiver education. Focus on problem solving and decision
   making.
   Credit/No Credit grading only. (Clinic 1 hour)

525. Clinical Internship I (3)
   Prerequisites: Completion of all requirements for the MPT degree.
   Six weeks of supervised full-time patient management in a hospital
   system. Satisfactory completion of the internship is required for licensure to practice in the state of
   California.
   Credit/No Credit only. (Clinical internship 6 weeks.) May be repeated
   to a maximum of 6 units in the same semester. The combination of
   PT 526, 528, and 527 must equal a minimum of 12 units.

526. Clinical Internship II (3)
   Prerequisites: Completion of all requirements for the MPT degree.
   Six weeks of supervised full-time patient management in an
   outpatient orthopedic setting. Satisfactory completion of the inter-
   nship is required for licensure to practice in the state of
   California.
   Credit/No Credit only. (Clinical internship 6 weeks.) May be repeated
   to a maximum of 6 units in the same semester. The combination of
   PT 526, 528, and 527 must equal a minimum of 12 units.

527. Clinical Internship III (3)
   Prerequisites: Completion of all requirements for the MPT degree.
   Six weeks of supervised full-time patient management in an
   outpatient orthopedic setting. Satisfactory completion of the inter-
   nship is required for licensure to practice in the state of
   California.
   Credit/No Credit only. (Clinical internship 6 weeks.) May be repeated
   to a maximum of 6 units in the same semester. The combination of
   PT 526, 528, and 527 must equal a minimum of 12 units.

574. Professional Practice Issues (2)
   Prerequisites: HHS 374
   Professional practice issues including evidence-based practice, the
   critical analysis of evidence, and cultural competence. Also the role
   of the physical therapist in facilitation of health care behavior change
   and educating patients and community.
   Letter grade only (A-F). (Lecture/Discussion 2 hours)

590. Special Topics in Physical Therapy (1-3)
   Prerequisite: Consent of instructor.
   Topics of current interest in physical therapy selected for special
   presentation. Topics will be announced in the Schedule of Classes
   when course is offered.
   Letter grade only (A-F). Course may be repeated to a maximum of 6
   units with different topics in the same or different semesters.

597. Independent Studies (1-3)
   Prerequisites: Consent of instructor, and for human dissection, one
   general introductory anatomy course, HHS 401 and 402.
   Independent studies in any area of physical therapy. Human
   dissection is available as a special study.
   Letter grade only (A-F). May be repeated to a maximum of 6 units.
   (Independent studies.)

604. Health Care Issues I (2)
   Prerequisite: Admission to MPT program.
   Investigation of the health care delivery system including the
   regulatory, political, ethical, legal and professional aspects of health
   care.
   Letter grade only (A-F). (Lecture/Discussion 2 hours.)

605. Health Care Issues II (2)
   Prerequisite: Admission to MPT program.
   Investigation and discussion of the process of planned direction,
   organization, management, and economics of physical therapy and
   physical therapy delivery. Includes theories of disease prevention
   and health promotion.
   Letter grade only (A-F). (Lecture/Discussion 2 hours.)

607. Seminar in Cardiopulmonary Clinical Decision Making (1)
   Prerequisites: PT 509.
   Continuing management of patient/client with disorders of
   cardiopulmonary system. Integrates disorders of cardiopulmonary
   system with other disorders that may impact cardiopulmonary
   health. Includes examination, evaluation, Intervention, advocacy,
   and caregiver education.
   Letter grade only (A-F). (Seminar 1 hour)

608. Neurologic Clinical Decision Making (1)
   Prerequisite: PT 507.
   Continuing management of the client with disorders of the
   neuromuscular system. Includes examination, evaluation, inter-
   vention, advocacy, and client/family caregiver education.
   Credit/No Credit grading only. (Clinic 1 hour)

611. Advances in Orthopaedic Physical Therapy (2)
   Prerequisites: PT 503, 504; MPT major or physical therapist.
   Exploration of advanced clinical orthopedic management strategies.
   Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours)

612. Advanced Study in Clinical Electroneuromyography (2)
   Prerequisites: PT 512, 513; MPT major or physical therapist.
   Advanced electromyography assessment and electrical stimulation technology with an emphasis on objective
   documentation and improvement of neurological status, muscle
   performance, walking ability and functional capacity.
   Letter grade only (A-F). (Lecture/Discussion 1 hour, laboratory 3
   hours.) Course fee may be required.

619. Contemporary Issues in Physical Therapy (2)
   Prerequisite: PT 604 and consent of instructor.
   Exploration of contemporary and emerging trends in physical
   therapy practice.
   Letter grade only (A-F). May be repeated to a maximum of 6 units
   with different topics in different semesters. (Lecture 1 hour, lab 3
   hours)

620. Management of Patients with Orthotic and
   Prosthetic Needs (2)
   Prerequisites: PT 502, 503.
   The prescription, application, and fabrication of devices and
   equipment (orthotic, prosthetic, supportive splinting, and taping).
   Letter grade only (A-F). (Lecture/Discussion 1 hour, laboratory 3
   hours.) Course fee may be required.

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622. Clinical Pathophysiology (3)
Prerequisites: PT 504, 505, 507, 509, 510, 513.
Pathophysiology of connective tissue in musculoskeletal, neuromuscular, cardiopulmonary and integumentary disorders as a basis for physical therapy evaluation, diagnosis, goal setting and conservative as well as pre and post-operative intervention in patients with multiple systemic disorders.
Letter grade only (A-F). (Lecture/ laboratory/discussion 3 hours)

674. Clinical Problem Solving (1)
Prerequisite: PT 574.
Critical thinking models and activities to promote problem solving and decision making in the physical therapy setting.
Letter grade only (A-F). (Lecture/discussion)

696. Research Methods (2)
Prerequisite: Admission to MPT program.
Scientific inquiry with emphasis on information searching, research design (qualitative and quantitative), and applied statistics. Also includes critical inquiry and clinical decision making guidelines, research ethics, and the development of a proposal on the validation of physical therapy practice.
Letter grade only (A-F). (Lecture/discussion 2 hours.)

697. Directed Research Studies (1-4)
Prerequisites: PT 574, 696, advancement to candidacy and consent of instructor.
Research in an area of specialization in physical therapy under the direction of a faculty sponsor.
Letter grade only (A-F). Must be completed for a total of 4 units.
Course fee may be required.

698. Research Thesis/Project (1-4)
Prerequisites: PT 574, 696, advancement to candidacy and consent of instructor.
Planning, preparation, and completion of thesis or project in physical therapy.
Letter grade only (A-F). Must be completed for a total of 4 units.
PHYSICS AND ASTRONOMY
College of Natural Sciences and Mathematics

Department Chair: Patrick Keneally
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Advisors:
Undergraduate: Gaton T. Pickett
Graduate: Chuhuen Kwan

Administrative Support Coordinator: Irene Howard

Students desiring information should contact the Department Office for referral to one of the faculty advisors.

Career Possibilities

Physicist • Computer Scientist • Electro-Optical Engineer • Computer Engineer • Meteorologist • Metalurgist • Industrial Health Engineer • Aerospace Engineer • Geophysical • Financial Analyst • Technical Writer • Astronomer • Teacher • Oceanographer • Systems Analyst • Mathematician • Materials Researcher • Quality Control Specialist • Food and Drug Inspector • Scientific Apparatus Salesperson • Nuclear Engineer • Physicist Technicians

Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu and www.aps.org/careers. Various entry-level trainee positions in business and industry are available for graduates regardless of academic discipline.

Introduction

The Department of Physics and Astronomy offers two bachelor’s degrees and a master’s degree; descriptions of those programs and the requirements for their completion are given below.

Degree Programs

Each bachelor’s degree offered by the Department is based on a strong, basic program. The Bachelor of Science (B.S.) degree is designed for students interested in immediate employment in industry as well as those who wish to continue on to a Master’s or Ph.D. degree in physics or a related field. The Bachelor of Arts (B.A.) degree is appropriate for those preparing for teaching careers in the physical sciences at the secondary level as well as those whose goal is a liberal education with an emphasis on physics. The curriculum for these baccalaureate degrees provides a broadly-based exposure to theoretical and experimental physics. It also permits students to discuss fundamental concepts and their applications to grasp the discoveries at science’s expanding frontiers, and to develop an appreciation for the amazing beauty of the physical universe.

The Department also offers graduate study leading to the Master of Science (M.S.) degree. The M.S. degree is available in both a general option and an option in applied physics. A student may choose the general plan either with a thesis or, if the department graduate committee gives permission, with a comprehensive examination; the computational plan requires a thesis; and the option in applied physics requires a thesis. Active areas of research are: materials sciences, condensed matter physics (superconductivity, magnetics, polymer physics), computational physics, quantum few-body scattering theory, theory of low-energy atomic collisions, field theory, gauge/gravitational interactions, phenomenology of elementary particles, biophysics, and applied optics. A limited number of teaching assistantships and graduate assistantships are available to students working on the master's degree. Work as a teaching associate (TA) is a valuable part of any degree program. Application should be made to the graduate advisor of the Department of Physics and Astronomy.

Concurrent and/or Summer Enrollment at Another College

Students who wish to take course work at a community college or another college or university to meet curricular requirements while enrolled as undergraduates in the College of Natural Sciences and Mathematics must petition the appropriate Department for prior approval to earn credit for specific courses. This policy applies to concurrent enrollment or summer enrollment. Please see "Concurrent Enrollment" and "Transfer of Undergraduate Credit" in this Catalog. Courses not receiving prior approval will not be accepted for credit by the Department.

Facilitated Enrollment into Classes

All entering students who declare a major in a degree program offered by this Department should participate in the College of Natural Sciences and Mathematics' Science Safari to Success (for first-time freshmen) or EONS (Enrollment and Orientation in the Natural Sciences and Mathematics for transfer students) Program. These programs are held in June-July for those starting in the Fall Semester and in January for those starting in the Spring Semester. Department advisors will be available to provide information and answer questions about the requirements for the chosen degree program, to assist with academic advisement, to provide information on the many career opportunities available, and to aid students in enrolling in classes. Contact the Jensen Student Access to Sciences and Mathematics Center (FD6-105) or Department Office for additional information.

Undergraduate Programs

Bachelor of Science in Physics (code PHYSBS01) (120 units)

Requirements

Lower Division: PHYS 151, 152, 254, 256; MATH 122, 123, 224; CHEM 111A,B; BIOL 111 and 111L, or 200, or 211A.
Upper Division: ENGL 317; MATH 370A or 364A; MATH 370B or 461; 33 units of upper division physics including PHYS 310, 320, 340A, 340B, 350, 360, 380, 450, and one laboratory course chosen from PHYS 445, 446, 476 and 480. The remaining (up to 8) units are to be chosen from any upper division physics courses.

Grade Requirements

Physics majors must have a "C" average in the major. Physics students must achieve a grade of "C" or better in each required course in the major. The following schedule is typical for an upper division major who is a full-time student.

Junior Year
Fall: PHYS 310, 320, 360; MATH 370A or 364A (or MATH 370B or 461; it is recommended that MATH 370A or 364A be taken before PHYS 310, if possible).
Spring: PHYS 340A, 350, 380; MATH 370B or 461 (if not taken previously).

Senior Year
Fall: PHYS 340B, 450.
Spring: Three upper division physics electives.

Bachelor of Arts in Physics
(code PHYSBA01) (120 units)

This degree is designed for the student who expects to teach at the secondary level, or who seeks a high quality liberal education focusing on science. A minimum of 120 units is required for this degree.

Requirements
Lower Division: PHYS 151, 152, 254, 255; MATH 122, 123, 224; CHEM 111A,B; BIOL 111 and 111L, or 200, or 211A.

Upper Division: minimum of 24 units selected in consultation with Physics Department Undergraduate Advisor, at least 18 units of which must be in physics; ENGL 317 or other suitable upper-division writing course from Department of English, determined in consultation with Physics Department Undergraduate Advisor (may be waived for students who achieved a standard score of 24 on the ACT English sub-test or who received an "A" or "B" grade in ENGL 100).

Teaching Credential

Requirements Related to a Teaching Credential with a Physics Concentration

The Physics Concentration meets the subject matter competence requirement for the Single Subject Preliminary Credential in Physics (code 183). Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective Physics teachers are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete many of the credential program courses, except for student teaching, as an undergraduate. Courses may also be started as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

The Physics Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

Requirements

Lower Division: PHYS 151, 152, 254, 255; MATH 122, 123, 224; ASTR 100; BIOL 111/111L, 212/212L, and 213/213L or 211A, B; CHEM 111A,B; GEOL 102, 104, 160.

Upper Division: MATH 364A or 370A; PHYS 310, 340A, either 320 or 422, 476, either 380 or 3 units of 496; SCED 403, 404; EDSS 300C, 450C; EDSE 435, 436, 457.

Minor in Physics (code PHYSUM01)

Requirements

The Minor in Physics is available to any non-Physics major. A minimum of 20 units which must include the following.

Lower Division: PHYS 151, 152, 254, 255.
Upper Division: A minimum of nine units in physics (PHYS 360 will not count toward these nine units).

Graduate Programs

Master of Science in Physics
(code PHYSMS01)

Prerequisites

1. A bachelor's degree with a major in physics; or
2. A bachelor's degree with at least 24 units of upper division physics. (Students deficient in undergraduate preparation must take courses to remove these deficiencies without credit toward the degree at the discretion of the Department Graduate Advisor.)

Requirements

All students must take: PHYS 510, 522, 540A, 550A, 560A, 605 and (545 or 546). In addition to these courses, students may opt for one of two plans:

General Physics Plan

1. PHYS 550B.

EITHER:

2. Completion of at least 2 additional units of graduate-level PHYS courses, 6 units of PHYS 698, a written thesis approved by the student's thesis committee consisting of a thesis chair (a Physics/Astronomy faculty member) and at least two more members, one of which must be a member of the Department, and an oral presentation of the thesis research. Note: Students must be advanced
to candidacy before enrolling in PHYS 698. As early as possible, a graduate student in consultation with the thesis chair should choose a thesis committee.

OR

3. With the permission of the Graduate committee, an additional 6 units of 500-level PHYS courses, and satisfactorily complete a comprehensive examination.

Computational Physics Plan
1. PHYS 502, 590B.
2. 6 units of PHYS 698, a written thesis approved by the student’s thesis committee consisting of a thesis chair (a Physics/Astronomy faculty member) and at least two more members, one of which must be a member of the Department, and an oral presentation of the thesis research. Note: Students must be advanced to candidacy before enrolling in PHYS 698. As early as possible, a graduate student in consultation with the thesis chair should choose a thesis committee.

Advancement to Candidacy
1. The regulations governing the master’s degree are those in effect at the time of advancement to candidacy. Students must fulfill the University requirements for advancement to candidacy.
2. A student must have a "B" average or better in six units of physics applicable toward the master’s degree, of which at least three units are at the graduate level.
3. Recognizing that effective organization and verbal communication of physics are a necessary part of a successful graduate program, the Department of Physics and Astronomy normally requires that a graduate student serve at least one semester as a teaching assistant or a graduate assistant as part of the M.S. program. Exceptions may be granted by the Graduate Advisor.
4. Approval of the degree program by the graduate advisor, the Department Chair, Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics, and the Dean of Graduate Studies.

Option in Applied Physics
(code PHYSMS02)

The Option in Applied Physics provides a master’s degree program that emphasizes concepts and techniques particularly appropriate for applied physics. It is intended for students having a background in physics, engineering, or a related field.

Prerequisites
1. A bachelor’s degree with a major in physics, or
2. A bachelor’s degree with a major in engineering with upper division physics substantially equivalent to PHYS 310, 340A, B, and 450, as determined by the Department Graduate Advisor, or
3. A bachelor’s degree with upper division physics and mathematics courses essentially equivalent to PHYS 310, 340B, 450; and MATH 370A, B, as determined by the Department Graduate Advisor.

Students deficient in undergraduate preparation must take courses to remove these deficiencies as determined by the Department Graduate Advisor.

Requirements
2. Two courses chosen from PHYS 545, 546, 576 or 580, one of which must be 545 or 546.
3. Completion of at least 2 additional units of graduate-level PHYS course, 6 units of PHYS 696, completion of a written thesis, and an oral presentation of the thesis research. The members of the candidate’s thesis committee must approve the thesis before the student may schedule the oral presentation. Note: Students must be advanced to candidacy before enrolling in PHYS 698. As early as possible, a graduate student should choose a thesis chair who will help in selecting the student’s thesis committee consisting of at least three members (including the thesis chair and at least one other faculty member of the Department).

Advancement to Candidacy
1. The regulations governing the master’s degree are those in effect at the time of advancement to candidacy. Students must fulfill the University requirements for advancement to candidacy.
2. A student must have a "B" average or better in six units of physics applicable toward the master’s degree, of which at least three units are at the graduate level.
3. Recognizing that effective organization and verbal communication of physics are a necessary part of a successful graduate program, the Department of Physics and Astronomy normally requires that a graduate student serve at least one semester as a teaching associate or a graduate assistant as part of the M.S. program. Exceptions may be granted by the Graduate Advisor.
4. Approval of the degree program by the graduate advisor, the Department Chair, Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics, and the Dean of Graduate Studies.

Physics Courses (PHYS)

LOWER DIVISION

100A, B. General Physics (A, B) F, S
Prerequisite: MATH 109 or 112 or 113 or 117 or 119A or 120 or 122. PHYS 100A is a prerequisite for PHYS 100B.
Your course in introductory physics. First semester considers properties of matter, mechanics, wave motion, and heat. Second semester considers electricity, light, and atomic and nuclear physics.
Letter grade only (A-F). (Lecture 3 hrs, laboratory 3 hrs.)

102. Introduction to Physics (3) F, S
Prerequisite: MATH 117 (which may be taken concurrently) or three and one-half years of high school mathematics including two years of algebra, one year of geometry and one-half year of trigonometry.
Assists students needing additional preparation before enrolling in PHYS 100A or 151. Basic problems and concepts in physics, particularly mechanics.
Credit/No Credit grading only. Begins in the fourth week of the semester. (Lectures, problem sessions 4 hrs.)
151. Mechanics and Heat (4) F,S
Prerequisite: MATH 122.
Lecturer grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

152. Electricity and Magnetism (4) F,S
Prerequisites: PHYS 151; MATH 123.
Mechanical waves, Coulomb's law, electrostatics, electric circuits, introductory electronics, magnetic fields, induction and Maxwell's equations.
Lecturer grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

201. An Introduction to the Fundamentals of Nano-Technology (3)
Broad overview of the key areas, applications, and emerging importance of nano-scale science and engineering in today's society. For lower-division students thinking of entering majors like physics, biology, and electrical engineering.
Lecturer grade only (A-F). (Lecture 3 hrs.)

254. Applied Modern Physics (3) F,S
Prerequisites: PHYS 152 or EE 210; MATH 224.
Geometrical and physical optics, models of atomic and condensed matter systems.
Not open for credit to students with a "C" or better in PHYS 153 or PHYS 154. Lecturer grade only (A-F). (Lecture 3 hrs.)

255. Laboratory on Modern Physics (1)
Prerequisite: PHYS 254, which may be taken concurrently. Experimental work in optics and modern physics.
Not open for credit to students with a "C" or better in PHYS 153 or PHYS 155. PHYS 255 is equivalent to PHYS 155. Lecturer grade only (A-F). (Laboratory 3 hrs.)

UPPER DIVISION

310. Mechanics I (3) F
Prerequisite: PHYS 151. Prerequisite/Corequisite: MATH 304A or 307A.
Lecturer grade only (A-F). (Lecture 3 hrs.)

320. Classical and Statistical Thermodynamics (3) F
Prerequisite: PHYS 162. Prerequisite/Corequisite: PHYS 254.
Laws of thermodynamics, thermodynamic potentials, kinetic theory methods, phase transitions, equilibrium ensembles and related formalism with applications to classical and quantum systems.
(Lecture 3 hrs.)

330. Experimental Optics and Spectroscopy (3) F
Prerequisites: PHYS 254, 255.
Interference, diffraction, polarization and elementary spectroscopy.
(Lecture 2 hrs., laboratory 3 hrs.)

340A. Electricity and Magnetism I (3) S
Prerequisites: PHYS 152, 310. Prerequisite/Corequisite: MATH 307A or 304A.
Vector calculus, electrostatics, and magnetostatics. Formulation of Maxwell's equations in vector analytic form.
Lecturer grade only (A-F). (Lecture-discussion 3 hrs.)

340B. Electricity and Magnetism II (3) F
Prerequisite: PHYS 340A. Special relativity. Applications of Maxwell's equations: Plane electromagnetic waves, guided waves, radiation, interaction of electromagnetic waves and matter.
(Lecture-discussion 3 hrs.)

350. Modern Physics (3) S
Prerequisites: PHYS 310; MATH 370A or 364A.
Physical phenomena and models leading to development of quantum mechanics. Schrödinger equation, one-dimensional quantum mechanical problems, uncertainty principle, one-electron atoms, elementary applications of quantum mechanics.
(Lecture-discussion 3 hrs.)

360. Physics With Symbolic Algebra Software (3)
Prerequisite: PHYS 152. Prerequisite/Corequisite: MATH 370A or 364A.
Learning symbolic algebra programming (e.g. Mathematica) to enhance the problem-solving abilities of students in physics, engineering and mathematics. Interpolation and fitting of experimental data. Sophisticated graphics, animations, analytic calculations, and numerical solutions for a variety of physics problems.
Lecturer grade only (A-F). (Lecture-discussion 3 hrs.)

380. Electronics (4) S
Prerequisite: PHYS 152.
Network analysis and complex impedance, transistor circuits, operational amplifiers, active filters and oscillators, digital electronics, analog digital interfacing, microprocessors.
Lecturer grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.)

410./515. Relativity (3) F, odd years
Prerequisite: PHYS 340A. Prerequisite/Corequisite: MATH 370A or 304A. (Undergraduates enroll in PHYS 410; graduates enroll in PHYS 515.)
Lorentz transformation, relativistic kinematics and dynamics, 4-vectors and tensors, transformation of electric and magnetic fields, covariant form of Maxwell's equations, introduction to general relativity.
Lecturer grade only (A-F). (Lecture-discussion 5 hrs.)

422./522. Thermal Physics (3) F, even years
Prerequisites: PHYS 310, 320, 360. (Undergraduates enroll in PHYS 422; graduates enroll in PHYS 522.)
Entropy and temperature, Boltzmann distribution and Helmholtz free energy, thermal radiation, chemical potential, Gibbs distribution, ideal gas, Fermi and Bose gases, heat and work, Gibbs free energy and chemical reactions, phase transformations and kinetic theory.
Lecturer grade only (A-F). (Lecture-discussion 3 hrs)

434./534. Astrophysics (3) F, even years
Prerequisites: PHYS 310, 320, and 340A or consent of the instructor. (Undergraduates enroll in PHYS 434; graduates enroll in PHYS 534.)
Topics in astrophysics. A particular semester schedule might include one or two topics from: Stellar interiors and evolution, radiative transfer and stellar atmospheres, relativistic cosmology, galaxy formation, accretion disk physics and quasars.
Lecturer grade only (A-F). (Lecture 3 hrs)

445./545. Experimental Methods in Physics I (3) S, odd years
Prerequisites: PHYS 254, PHYS 450 or consent of instructor.
(Undergraduates enroll in PHYS 445; graduates enroll in PHYS 545.)
Modern physical measurement techniques including scanning probe microscopy and pulsed nuclear magnetic resonance. Noise and fluctuations in physical measurements. Low noise measurement techniques including lock-in amplifier, gated integrator and boxcar averager, bridge circuits, convolution, auto-and cross-correlation and FFT.
Lecturer grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

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446. Experimenta/ Methods in Physics II (3) 
Prerequisites: PHYS 345, 450, or consent of instructor.
(5 undergraduates enroll in PHYS 446; graduates enroll in PHYS 546.)
Modern physical measurement techniques in condensed matter physics in high magnetic fields and low temperatures. Examples are temperature and magnetic field effects in magnetic materials, Miesner effect and superconducting transition temperature in superconductors, and mobility and Hall effect in semiconductors.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

450. Quantum Physics I (3) F
Prerequisites: PHYS 310, 340A, 350.
Schrodinger equation, atomic physics, harmonic oscillator, scattering, perturbation theory, Heisenberg and Dirac representations, spin, symmetries (angular momentum, time reversal, and parity), applications. (Lec-discussion 3 hrs.)

451. Quantum Physics II (3) S, even years
Prerequisites: PHYS 450.
Measurement processes, atomic physics, identical particles, quantum statistics, numerical methods, many-body systems, density matrix, applications.
Letter grade only (A-F). (Lecture-discussion 3 hrs.)

462. Computational Methods in Theoretical Physics (3)
Prerequisites: PHYS 310 and PHYS 450. (Undergraduates enroll in PHYS 462, graduate students enroll in PHYS 562.)
Symbolic and numerical (e.g. Maple, Mathematica) and numerical (e.g. Fortran 95/C++) programming, and their applications: classical mechanics, Hamilton equations, quantum mechanical bound and scattering-state problems, Schrodinger equation, Liebnitz-Schrödinger equation, Dirac equation.
Letter grade only (A-F). (Lecture 3 hrs.)

470. Introduction to Solid State Physics (3) S, odd years
Prerequisites: PHYS 450. (Undergraduates enroll in PHYS 470; graduates enroll in PHYS 560.)
Study of properties of solids from quantum mechanical viewpoint. Includes lattice vibrations, elastic constants, and thermal, electric, and magnetic properties.
Letter grade only (A-F). (Lecture 3 hrs.)

475. Modern Optics (3) F, even years
Prerequisites: PHYS 340A. (Undergraduates enroll in PHYS 475; graduates enroll in PHYS 575.)
Propagation of electromagnetic waves, optical resonators, laser spectroscopy and operation, optical phase conjugation, nonlinear optics, and selected application.
Letter grade only (A-F). (Lecture 3 hrs.)

476. Modern Optics with Laboratory (3)
Prerequisites: PHYS 340A. (Undergraduates enroll in PHYS 476; graduates enroll in PHYS 576.)
Propagation of electromagnetic waves, optical resonators, laser spectroscopy and operation, optical phase conjugation, nonlinear optics, and selected application. Experiments illustrating principles and techniques of electro-optics and laser physics. Applications include optical methods in communications, atomic spectroscopy, and nonlinear optics.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

480. Computer Interfacing in Experimental Physics (3) S, even years
Prerequisites: PHYS 380 or consent of instructor. (Undergraduates enroll in PHYS 480; graduates enroll in PHYS 580.)
Modern data acquisition and analysis methods using computer-based equipment and high level software. Physics experiments performed with standard personal computers, research quality data acquisition hardware, and programmable instruments. Computer use as tool in execution and interpretation of experiments.
Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.)

490. Special Topics in Physics (3)
Prerequisites: Consent of instructor. (Undergraduates enroll in PHYS 490; graduates enroll in PHYS 590.)
Physics topics selected from such areas as atomic and nuclear physics, astrophysics, photonic materials, low temperature physics, acoustics, and theoretical physics. May be repeated to a maximum of 6 units. (Lecture 3 hrs.)

496. Special Problems in Physics (1-3)
Prerequisites: Consent of instructor and senior standing. Physics problems selected by instructor for considered and mature analysis. Written and 10-minute oral reports required.

GRADUATE LEVEL

500. Research Methods (1)
Prerequisites: Consent of instructor. Study of literature about research methods in physics. May be repeated to a maximum of 2 units; only 1 unit may be applied to the Master of Science in Physics. Letter grade only (A-F).

510. Graduate Mechanics (3) F
Prerequisites: PHYS 310.
Variational principles, Lagrange's equations, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, relativistic mechanics and small oscillation theory.
Letter grade only (A-F). (Lecture 4 hrs.)

515. Relativity (3) F, odd years
Prerequisites: PHYS 340A. Prerequisite or Corequisite: MATH 370A or MATH 350A. (Undergraduates enroll in PHYS 415; graduates enroll in PHYS 515.)
Lorentz transformation, relativistic kinematics and dynamics, 4-vectors and tensors, transformation of electric and magnetic fields, covariant form of Maxwell's equations, introduction to general relativity.
Letter grade only (A-F). (Lecture-discussion 3 hrs.)

522/422. Thermal Physics (3) F, even years
Prerequisites: PHYS 310, 320, 380. (Undergraduates enroll in PHYS 422; graduates enroll in PHYS 522.)
Entropy and temperature, Boltzmann distribution and Boltzmann's free energy, thermal radiation, chemical potential, Gibbs distribution, ideal gas, Fermi and Bose gases, heat and work, Gibbs free energy and chemical reactions, phase transformations and kinetic theory.
Letter grade only (A-F). (Lecture-discussion 3 hrs.)

534/434. Astrophysics (3) F, even years
Prerequisites: PHYS 310, 320, and 340A or consent of the instructor. (Undergraduates enroll in PHYS 434; graduates enroll in PHYS 534.)
Topics in astrophysics. A particular semester schedule might include one or two topics from: Stellar interiors and evolution, radiative transfer and stellar atmospheres, relativistic cosmology, galaxy formation, accretion disk physics and quasars.
Letter grade only (A-F). (Lecture 3 hrs.)
540A. Graduate Electricity and Magnetism and Electrodynamics I (3) S
Prerequisite: PHYS 340B.
Boundary value problems, applications of special functions to electrostatics/magnetoostatics. Green's function techniques, multipole expansion of electrostatic field, dielectric media, Maxwell's equations, electromagnetic waves.
Letter grade only (A-F). (Lecture 3 hrs.)

540B. Graduate Electricity and Magnetism and Electrodynamics II (3) F
Prerequisite: PHYS 540A.
Covariant formalism, simple radiating systems, radiation by moving charges, and topics in electrodynamics chosen from the following: wave guides, magnetohydrodynamics, thermodynamics and electrodynamics of continuous media, and radiation reaction.
Letter grade only (A-F). (Lecture 3 hrs.)

545J.445. Experimental Methods in Physics I (3)
Prerequisites: PHYS 254; PHYS 450 or consent of instructor.
Undergraduates enroll in PHYS 445; graduate students enroll in PHYS 545.
Modern physical measurement techniques including scanning probe microscopy and pulsed nuclear magnetic resonance. Noise and fluctuations in physical measurements. Low noise measurement techniques including lock-in amplifier, gated integrator and boxcar averager, bridge circuits, convolution, auto- and cross-correlation and FFT.
Letter grade only (A-F). (Lecture 2 hrs, laboratory 3 hrs)

546J.446. Experimental Methods in Physics II (3)
Prerequisites: PHYS 254; PHYS 450 or consent of instructor.
Undergraduates enroll in PHYS 446; graduate students enroll in PHYS 546.
Modern physical measurement techniques in condensed matter physics in high magnetic fields and low temperatures. Examples are temperature and magnetic field effects in magnetic materials, Meissner effect and superconducting transition temperature in superconductors, and mobility and Hall effect in semiconductors.
Letter grade only (A-F). (Lecture 2 hrs, laboratory 3 hrs)

550A. Quantum Mechanics I (3) F
Prerequisite: PHYS 450.
Mathematical and postulational basis of quantum mechanics, one-dimensional problems, two-level systems, angular momentum, central potentials, time independent and time dependent perturbation theory.
Letter grade only (A-F). (Lecture 3 hrs.)

550B. Quantum Mechanics II (3) S
Prerequisite: PHYS 550A.
Scattering, rotation group and irreducible tensor operations, identical particles, some classical radiation theory, atoms, path integrals formalism, and other selected topics.
Letter grade only (A-F). (Lecture 3 hrs.)

554. Nuclear Physics (3)
Prerequisite: PHYS 550A.
Deeferon problem, nuclear nuclear potential, shell model, nuclear models, nuclear reactions, elementary particles, weak interactions, strong interactions.
Letter grade only (A-F). (Lecture 3 hrs.)

555. Elementary Particle Physics (3) S, even years
Prerequisites: PHYS 310, 340B, 450.
 Feynman diagram language of scattering and decay, space-time symmetries, relativistic kinematics, hadron quantum numbers and quark models, QED, QCD and gluons, weak interactions.
Letter grade only (A-F). (Lecture 3 hrs.)

560A. B. Mathematical Methods of Physics (3,3)
Prerequisites: MATH 370A,B or equivalent.
Linear vector spaces, eigenvalue problem, functions of complex variable, special functions, properties and methods of solving partial differential equations of physics, integral equations, tensor analysis, and group theory.
Letter grade only (A-F). (Lecture 4.3 hrs.)

562J.462. Computational Methods in Theoretical Physics (3)
Prerequisites: PHYS 310 and PHYS 450. (Undergraduates enroll in PHYS 462; graduate students enroll in PHYS 502).
Symbolic (e.g. Maple/Mathematica) and numerical (e.g. Fortran 85/C++) programming, and their applications: e.g. classical mechanical Hamilton equations, quantum mechanical bound and scattering-state problems, Schrödinger equation, Lippmann-Schwinger equation, Dirac equation.
Letter grade only (A-F). (Lecture 5hrs.)

569J.470. Introduction to Solid State Physics (3) S, odd years
Prerequisite: PHYS 450. (Undergraduates enroll in PHYS 470; graduates enroll in PHYS 569.)
Study of the properties of solids from a quantum theoretical viewpoint. Topics include lattice vibrations, elastic constants, and thermal, electric and magnetic properties.
Letter grade only (A-F). (Lecture 3 hrs.)

575J.475. Modern Optics (3) F, even years
Prerequisite: PHYS 340A. (Undergraduates enroll in PHYS 475; graduates enroll in PHYS 575.)
Propagation of electromagnetic waves, optical resonators, laser spectroscopy and operation, optical phase conjugation, nonlinear optics and selected applications.
Letter grade only (A-F). (Lecture 3 hrs.)

576J.476. Modern Optics with Laboratory (3)
Prerequisite: PHYS 340A. (Undergraduates enroll in PHYS 476; graduates enroll in PHYS 576.)
Propagation of electromagnetic waves, optical resonators, laser spectroscopy and operation, optical phase conjugation, nonlinear optics and selected application. Experiments illustrating principles and techniques of electro-optics and laser physics. Applications include optical methods in communications, atomic spectroscopy, and nonlinear optics.
Letter grade only (A-F). (Lecture 2 hrs laboratory 3 hrs)

580J.480. Computer Interfacing in Experimental Physics (3) S, even years
Prerequisite: PHYS 380 or consent of instructor. (Undergraduates enroll in PHYS 480; graduates enroll in PHYS 580.)
Modern data acquisition and analysis methods using computer-based equipment and highly level software. Physics experiments performed with standard personal computers, research-quality data acquisition hardware, and programmable instruments. Computer use as tool in acquisition and interpretation of experiments.
Letter grade only (A-F). (Lecture 2 hrs, laboratory 3 hrs.)

590J.490. Special Topics in Physics (3)
Prerequisite: Consent of instructor. (Undergraduates enroll in PHYS 490; graduates enroll in PHYS 590.)
Physics topics selected from such areas as atomic and nuclear physics, astrophysics, physics of materials, low temperature physics, acoustics, and theoretical physics. May be repeated to a maximum of 8 units. (Lecture 3 hrs.)

691. Directed Study (1)
Intensive study of advanced topics in physics. May be repeated to a maximum of 2 units. Letter grade only (A-F).
Physics Courses (PHYS)

694. Seminar in Special Topics (1)
Prerequisite: Graduate standing.
Study of research papers and research methods in selected topics. If demand for more than one subject exists, multiple sections may be given in any one semester.
May be repeated to a maximum of 2 units; only 1 unit may be applied to the master's degree. Letter grade only (A-F). (Seminar 1 hr.)

695. Colloquium (1)
Prerequisite: Graduate standing.
Weekly meetings for presentation and discussion of current research in physics even though only 1 unit is for M.S. degree. Graduate students are expected to attend each semester they are enrolled in University.
Credit/No Credit grading only. (Seminar 1 hr.)

697. Directed Research (1-3)
Theoretical and experimental problems in physics requiring intensive analysis.
Letter grade only (A-F).

698. Thesis (1-6)
Prerequisite: Advancement to candidacy for the M.S. in Physics.
Planning, preparation, and completion of acceptable thesis in partial fulfillment of requirements for master's degree. A half-hour seminar presenting and defending results of the thesis required.
Credit obtained upon formal acceptance of thesis.

Astronomy Courses (ASTR)

LOWER DIVISION

100. Astronomy (3) F,S
Prerequisite/Corequisite: One course from Category B.2 of the GE requirements.
Introductory course in astronomy. The earth moon system and the planets, the stars and their constitution. Survey of the methods of astronomical observation.
(Lecture 3 hrs.)

100L. Introductory Astronomy Laboratory (1) F,S
Prerequisite/Corequisite: One course from Category B.2 of the GE requirements; ASTR 100.
Astronomical coordinates, star maps, magnitude, spectral classification, ages of stars, distance to star clusters.
Not open for credit to students with credit in ASTR 101.
(Laboratory 3 hrs.)

UPPER DIVISION

370L. Planetary Environments (3) F,S
Prerequisites: Completion of the GE Foundation and the GE B.1.A category; upper division status.
Planets and moons analyzed as to surface geology, interiors, atmospheres, etc. Methodologies and scientific reasoning about nature and origins of features. Origin of terrestrial life, including role of extinction events, and probable requirements for life elsewhere in universe.
(Lecture 3 hrs.)

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POLITICAL SCIENCE
College of Liberal Arts

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Administrative Coordinator: Nancy St. Martin

Students desiring information should contact the department office for referral to one of the faculty advisors:

Advisors:
Counselor: Ilene Lihr (History)
Undergraduate: Amy Rasmussen
Graduate: Leilani Haas
Pre-Law: Jason Whitehead

Career Possibilities
Political Scientist • Journalist • Foreign Service Officer • Urban Planner • Paralegal • Labor Relations Specialist • Administrator • Researcher • Lobbyist • Archivist • Probation/Parole Officer • Intelligence Analyst • Teacher • Lawyer • Social Service Worker • Market Research Analyst • Public Survey Worker • Community Organizer • Politician • Legislative Aide • City Manager (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The political science major is designed to provide the student with a systematic knowledge of the nature and scope of political science. A student may elect to major in political science as a preparation for such fields as: (1) college or university teaching, (2) law, (3) government career service, (4) foreign career service, and (5) politics. In addition, a political science major is preparation for general education, good citizenship, and participation in political life. Students interested in the fields mentioned above should consult with an advisor to secure aid in planning their programs.

Pre-Law Program and Preparation
Political Science continues to be one of the most popular and successful routes to law school and careers in the legal field. Combining a broad exposure to liberal arts with an in-depth immersion in government studies and public law, plus opportunities to intern in legal settings, Political Science provides a rich preparation for those interested in pursuing careers in law. Students interested in our program should consult with the Pre-law advisor in Political Science both to plan a carefully thought out undergraduate course of study and to successfully prepare for admission to law schools.

General Education Requirements in Government
The Education Code requires each college graduate to meet (1) a federal government requirement and (2) a California state and local government requirement. Both of these requirements can be met by POSC 100 (for lower division students) or POSC 391 (for upper division students). If the student has completed the federal government requirement, but not the California state and local government requirement, the student should take POSC 326. Students who have taken American federal, state or local government at another institution should check with the political science advisor before enrolling.

Undergraduate programs

Bachelor of Arts in Political Science (code POSCBA01) (120 units)

Requirements
Required Courses: (6 units): POSC 100, 300
Concentration Requirement: (18 units)

Eighteen units in one of the three areas of concentration: Law, Politics and Policy; Political Theory; Global Politics.
Three lower-division units and fifteen upper-division units must be taken in the chosen area of concentration, including the senior seminar in that area.

Breadth Requirement: (15 units)
Fifteen units, no more than six of which may be from the student's area of concentration; no more than three of which may be lower division. Program must include at least three units of a practicum.

POSC 100, the 200-level concentration requirement, and POSC 300 must be completed by the end of the junior year.
Total Units: 30

Honors in Political Science
Students with a major in Political Science may be admitted to the Political Science Department's honors program (option of the University Honors Program) provided they have:
1. Junior standing, completed POSC 300 and at least two additional upper-division courses in Political Science;
2. A minimum of three semesters remaining before graduation;
3. A minimum cumulative GPA of 3.3, and 3.5 in Political Science courses;
4. Submitted to the Department Honors Committee two letters of recommendation from faculty members and an example of a research or analytical paper written for a previously taken course in Political Science;
5. Received admission approval from the Department Honors Committee.

In order to graduate with Honors in Political Science a student must:
1. Complete all regular requirements for the major in Political Science;

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2. Complete 3 units of POSC 490H: Honors Seminar;
3. Complete 3 units of POSC 491H: Honors Research;
4. Complete 3 units of POSC 492H: Honors Thesis;
5. Have at the time of graduation a cumulative GPA of at least 3.3 and a GPA of at least 3.5 in Political Science courses.

Minor in Political Science (code POSCUM01)
The Minor in Political Science is available to any non-Political Science major.
A minimum of 21 units which must include:
Required: POSC 100 or 391, 300
Upper Division: Five upper division courses (300/400 level) which may include one approved political science internship from 418, 447, 448, 496, or 498.

Minor in Public Administration in Political Science (code POSCUM02)
The Minor in Public Administration in Political Science is available to any non-Political Science major.
A minimum of 21 units which must include: (a) POSC 430; (b) 9 units selected from POSC 431, 432; (c) 6 units selected from POSC 300B, 322, 323, 326, 327, 328, 329, 447, 448; (d) Three elective units from any area in political science chosen in consultation with an advisor.

Graduate Programs

Master of Arts in Political Science (code POSCMA01)
The Department of Political Science offers graduate study leading to the master of arts degree. The student is urged to become acquainted with the general requirements of the University and the specific requirements of the department as stated in this Catalog. Important supplementary information about the steps leading to the master’s degree in political science is contained in the Handbook for Graduate Students, which is available on the department website.

Before or soon after entering the program, the graduate student will normally consult with the department graduate advisor.

After beginning graduate study, the student is responsible for obtaining the consent of full-time members of the department’s graduate faculty to serve on her/his graduate committee: one of these committee members, the chair, will be drawn from the student’s major field of concentration and will serve as the student’s academic advisor. The student should seek to have established her/his committee prior to the completion of the first year or the first 15 units of work as a graduate student in political science unless an exception is granted by the Department Graduate Committee.

Prerequisites
1. A bachelor’s degree with a major in political science or a bachelor’s degree with 24 upper division units in political science comparable to those required for a major in political science at this university.
2. Completion of a minimum of one upper-division political theory course equivalent to POSC 301 or POSC 303 at CSULB, with a grade of "B" or better.
3. Students whose undergraduate work is deficient in political science will be required to make up certain courses. Deficiencies will be determined by the Department’s Graduate Committee after taking into account each student’s background and goals. These courses will not count toward credit in the M.A.
4. A 3.0 ("B") GPA in political science courses taken as an undergraduate. A student whose GPA is less than 3.0 may appeal to the Department’s Graduate Committee for a possible waiver of this requirement.
5. Three letters of recommendation (preferably from academic sources).

Advancement to Candidacy
1. Satisfy the general requirements of the University for advancement to candidacy;
2. In order to be recommended for advancement to candidacy, students must obtain the written approval of their master’s degree program of course work by their committee chair and graduate advisor.

Requirements
1. A student’s program is formulated in consultation with an advisor selected from the department’s faculty. A minimum of 30 units of acceptable upper division and graduate courses is required. All students are required to take both POSC 590 and POSC 550. 21 units must be concentrated in three of the fields into which the department’s curriculum is divided. M.A. students, upon the prior approval of the Graduate Advisor, may take 5-6 units of upper division (300/400) coursework in Political Science for elective credit. General Education courses may not be taken for graduate credit.
2. The graduate student must complete one of the following requirements: (a) A comprehensive examination in each of two fields of Political Science; (b) A thesis. Students following the comprehensive examination option will earn 3 units of credit in POSC 697 and those writing a thesis will be granted three units of credit in POSC 696.

Interdisciplinary Minor in Public Policy (code POSCUM03)
The purpose of this program is to enable persons majoring in fields related to public policy to gain a broader understanding of the substance of public policies, the underlying social, economic and political factors related to policy alternatives, the dynamics of the public policy decision-making process, the values implicit in these decisions, and methods by which these aspects of public policy may be analyzed.

The minor consists of 21 units including a core curriculum of 12 units and 9 units of electives. A maximum of 8 units may be taken in the student’s major department, but no units may be counted in both the major and the minor.
Requirements
1. Core Curriculum: (12 units required): Twelve units chosen from among the following courses: ECON 450, POSC 328, PSY 375I, UIST 311.
   Note: It is strongly recommended that students take the core curriculum courses in sequence, the first two courses during the Junior year, the second two during the Senior year.

2. Electives: (9 units required): At least 6 units of the 9 elective units must be taken in one of the policy area concentrations outlined below. The remaining 3 units may be taken from among any of the elective courses approved for the minor.
   Policy Area Concentrations: Community Relations and Social Services, Health Care, Housing and Recreation, Education, Economic Regulation, Justice and Law, Land Use and Ecology, Computational Skills for Public Policy, Foreign Policy and International Relations, Values and Public Policy, Governance and Policy, Law, Politics and Policy

Law, Politics and Policy
POSC 210 Issues of American Politics
POSC 212 How Democratic is the United States?
POSC 311 Constitutional Law: Power
POSC 312 Constitutional Law: Rights
POSC 321 The Media and American Politics
POSC 322 Parties, Campaigns, and Elections
POSC 323 Racial and Ethnic Politics - U.S.
POSC 326 California Government in Comparative Perspective
POSC 327 Urban Politics
POSC 328 Public Policy
POSC 329 Cases in Public Policy Making
POSC 412 Law and Social Change
POSC 414 Jurisprudence
POSC 417 Legal Practice: Court
POSC 418 Legal Practice: Appellate
POSC 419 Senior Seminar in Public Law
POSC 422 Public Opinion and Political Behavior
POSC 423 The American Presidency
POSC 424 The Legislative Process
POSC 429 Senior Seminar in American Government and Politics
POSC 430 Fundamentals of Public Administration
POSC 431 Public Policy Analysis
POSC 432 Public Values and Public Policy
POSC 447 Public Service Internship I
POSC 448 Public Service Internship II

Political Theory
POSC 225 Issues in Political Theory
POSC 301 Classical Political Theory
POSC 303 Modern Political Theory
POSC 304 Recent Political Theory
POSC 306 Contemporary Political Ideologies

POSC 308 American Political Theory
POSC 401 Women in Political Theory
POSC 405 Senior Seminar in Political Theory

Global Politics
POSC 215 Issues of Comparative Politics
POSC 216 Global Politics
POSC 220 Issues in Global Politics
POSC 332 Governments and Politics of Western Europe
POSC 336 Contemporary Latin American Politics
POSC 362 Society and National Politics of China
POSC 367 Governments and Politics of the Middle East
POSC 371 International Politics
POSC 374 International Law
POSC 376 Politics and Practice of the UN
POSC 450 Comparative Political Movements
POSC 455 Comparative Revolutionary Change
POSC 461 The Politics of Development
POSC 463 Nationalism and National Identities
POSC 469 Senior Seminar in Comparative Politics
POSC 480 U.S. Latin American Relations
POSC 481 American Foreign Policy
POSC 485 International Political Economy
POSC 486 National Security Policies
POSC 489 Senior Seminar in International Relations

General
POSC 300 Scope/Methods Political Science
POSC 300B Quantitative Methods in Political Science
POSC 388 Cybersecurity Citizenship
POSC 391 American Government
POSC 395I Politics Through Culture
POSC 400H Honors Seminar
POSC 401H Honors Research
POSC 402H Honors Thesis
POSC 403 Special Topics
POSC 404 Politics of the Future
POSC 405 Washington Center Internship
POSC 407 Special Topics
POSC 408 Practicum in Politics
POSC 409 Readings and Conference in Political Science

Courses (POSC)

LOWER DIVISION

100. Introduction to American Government (3)
Prerequisites/Corequisites: Any GE Foundation course.
Introductory survey of American Political Institutions, politics, and policy, including government and politics in California. Constitutional foundations and current controversies. Satisfies the general education requirement and the California teaching credential requirement.

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105. Introduction to Critical Thinking (3)
Prerequisites/Corequisites: Completion/concurrent enrollment in ENGL 100 or equivalent.
Introduction to critical thinking through study of philosophical writing, political rhetoric, and political propaganda. Emphasis on distinguishing facts from values, inductive from deductive reasoning, emotional responses from reasoned judgments, relationship between language and logic, the role of reference, intellectual honesty.

210. Issues of American Politics (3)
Prerequisite: Completion of GE Foundation requirements and POSC 100.
Intensive study of issues associated with the concepts of democracy, limited government, federalism, separation of powers, judicial review, and preservation of individual rights.

212. How Democratic is the United States? (3)
Prerequisite: Completion of all GE Foundation courses and POSC 100.
Examination of persistent challenges to citizen control of government in the U.S., including growth of executive power; economic inequality, racial inequality, loss of status; decline of political participation and civic engagement.

215. Issues of Comparative Politics (3)
Prerequisite: Completion of GE Foundation requirements and POSC 100.
Intensive study of issues associated with selected foreign governments, modernization, revolution, political change and world ideological conflict.

218. Global Politics (3)
Prerequisite: Completion of all GE Foundation courses and POSC 100.
Study issues central to politics in a global context, such as democracy, communism, fascism, democratization, revolution, liberalism, and anti-liberalism. Examine questions of national sovereignty, as well as the relation between nation states and the rise of non-state and trans-state actors.

220. Issues in Global Politics (3)
Prerequisite: Completion of GE Foundation requirements and POSC 100.
Divergences between nations as they affect political differences between states. The political significance of the encounter of individuals with those of different nationalities.

225. Issues in Political Theory (3)
Prerequisite: Completion of GE Foundation requirements and POSC 100.
Study and discussion of issues including revolution, power, justice, alienation, the nature of democracy, and other important political concepts. Views of theorists such as Plato, Hobbes, Rousseau, Mill, and Marx will be examined.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course.

300. Scope and Methods of Political Science (3)
Prerequisite: POSC 100.
Examiners what political scientists do. Focus on quantitative and qualitative techniques employed by political scientists to understand political phenomena. Examples drawn on all subfields from political science: American politics, comparative politics, international relations, political theory, public law and public policy. Letter grade only (A-F).

300B. Quantitative Methods in Political Science (3)
Prerequisites: Completion of the GE Foundation, POSC 100. Problems of data collection and analysis. Impact of research methods on findings. No prior knowledge of statistics is assumed. Only basic mathematical skills are needed for success in this course.

Lecture (3 hours)

301. Classical Political Theory (3)
Prerequisites: Completion of the GE Foundation, POSC 100. Ancient Greek and Roman roots of political theory. Socrates and the Sophists; Plato, Aristotle; Cicero, Polybius; and the Stoics. Examines relationships between the individual citizen and the Polis, justice and equality, democracy and dictatorship, the political culture of Mediterranean world.

303. Modern Political Theory (3)
Emergence of modern political thought in Western Europe from the 17th through the 19th centuries. Examines views of state and society in John Locke, Thomas Hobbes, Jean Jacques Rousseau, John Stuart Mill, Edmund Burke, George Hegel, and Karl Marx.

304. Recent Political Theory (3)
Critical examination of major themes in political thought in industrial and post-industrial society, from the late 19th century to today.

306. Contemporary Political Ideologies (3)
Critical examination of the nature and role of ideologies in contemporary politics. Conservatism, liberalism, socialism, communism and fascism in theory and practice.

308. American Political Theory (3)
Critical examination of the ideas of those who have shaped American political consciousness from Puritans to present.

311. Constitutional Law: Power (3)
Prerequisite: POSC 100 or 301 or equivalent. Judicial interpretation of the U.S. Constitution. Judicial review, the power of the President and the Congress; state governmental authority; nature of the American federalism. Not open for credit to students with credit in POSC 315.

312. Constitutional Law: Rights (3)
Prerequisite: POSC 100 or 301 or equivalent. Analysis of the rights and guarantees contained in the Bill of Rights and other constitutional and statutory provisions. Examination of leading cases. Not open for credit to students with credit in POSC 314.

321. The Media and American Politics (3)
Prerequisites: Completion of GE Foundation requirements, POSC 100 or consent of instructor. Role of print and electronic media in American politics and their relationship to politicians and the media. The media's impact on government, policy-making, election campaigning. Prospects for democratic deliberation. Portrayal of political issues and political themes in popular culture.

322. Parties, Campaigns, and Elections (3)
Prerequisites: Completion of GL Foundation requirements. The nature and impact of the American two-party system; why people vote as they do; how candidates seek electoral support. Comparison of American party politics to party politics in other democratic countries.

323. Racial and Ethnic Politics - U.S. (3)
Prerequisites: Completion of the GE Foundation, POSC 100. Examination of the political activities of racial and ethnic minority groups in the United States, including American Indians, African Americans, Latino Americans and Asian/Pacific Americans. Political debates over competing approaches, strategies and public policies promoting equality in the U.S.
326. California Government In Comparative Perspective (3)
Prerequisites: Completion of GE Foundation requirements.
The government and politics of American States including intergovernmental relations. Special focus on political institutions, current issues, and public policies in California. May not be taken to fulfill G.E. credit except under category D 1.b.

327. Urban Politics (3)
Social conflicts, political processes and governmental institutions in American urban areas. Emphasis on urban political culture, power structures, interest groups, social movements, urban governance and policy-making. Evaluation of urban political problems and proposed solutions.

328. Public Policy (3)
Prerequisites: Completion of the GE Foundation; POSC 100.
Analysis of the American policy process with special attention to the social, economic, cultural, and political factors that influence policy choices.

329. Cases in Public Policy Making (3)
Prerequisites: Completion of GE Foundation, POSC 100, and POSC 328. Intensive examination of the policy process through the in-depth analysis of selected public policies. May be repeated to a maximum of 6 units with different topics in different semesters with department approval.

353. Government and Politics of Western Europe (3)
Prerequisites: Completion of the GE Foundation and POSC 100.
Examination of selected European democracies, with emphasis on governmental structure, functions and political processes and their relationship to current problems.

358. Contemporary Latin American Politics (3)
Study of government and politics with emphasis on similarities and differences among Latin American states. Focus on principal groups and major issues in the political process. Conflict among the obstacles to development and other problems will be examined.

362. Society and National Politics of China (3)
Study of the People’s Republic of China, including its origin, ideology, and organization. Contemporary social, economic, and political developments.

367. Governments and Politics of the Middle East (3)
Emergence and development of the contemporary political systems of the Middle East; the Arab-Israeli dispute; the role and importance of the region in international politics.

371. Introduction to International Politics (3)
Prerequisites: Completion of the GE Foundation; POSC 100. Relations among nation states. Why countries sometimes cooperate and sometimes go to war. Roles of international organizations like the UN, the WTO, and NATO; and non-governmental actors like Amnesty International and Al-Qaeda; international trade and finance; war, peace, terrorism and diplomacy.

376. International Law (3)
Nature and historical development of international law; determination of rules of international law; International community under law; recognition of states and governments; jurisdiction, settlement of international disputes; war aggression and neutrality.

378. Politics and Practice of the UN (3)
Examination of historical development of international organization from the Concert of Europe to the United Nations. Analysis of contemporary international organization: its functions, problems and prospects in the context of the world situation. May be repeated to a maximum of 6 units in different semesters, but may only count once toward IR major concentration field requirement.

388. Cyberspace Citizenship (3)
Prerequisites: Completion of GE Foundation requirements, one Explorations course, and upper division standing.

391. American Government (3)
Prerequisites: Completion of GE Foundation requirements.
Survey of American government and politics, including attention to California government. Constitutional foundations and current controversies. Satisfies the general education requirement and the California teaching credential requirement. Not open for credit to students with credit in POSC 100.

395. Politics Through Culture (3)
Prerequisites: Completion of the GE Foundation, completion of one Explorations course, and upper division standing.
Study of politics through cultural analysis. Alternative theoretical perspectives on contemporary cultural artifacts such as art, film, music, and the media.

401. Women in Political Theory (3)
Prerequisite: Students must have completed one course in either political science or women’s studies.
Different treatment of women and men in western political theories, including feminism, power, rationality and the role of the women in the family. Classic and contemporary texts. Same course as WGST 402. Not open for credit to students with credit in WST 402 or WGST 402.

409. Senior Seminar in Political Theory (3)
Prerequisites: Six units in political theory courses or consent of instructor.
Intensive study of selected conceptual and theoretical problems in political theory. Letter grade only (A-F).

412. Law and Social Change (3)
Prerequisites: Completion of the GE Foundation; POSC 100. Legal strategies pursued by social movements to remedy discrimination in the U.S. Legislative, administrative, and judicial responses. Gender equity, sexual harassment, voting rights, racial discrimination, fair housing, labor standards, sexual orientation, environmental justice, and American Indian rights.

414. Jurisprudence (3)
Fundamental legal philosophies, sources and classifications of law. Relationship of law to other disciplines and societal institutions.

417. Legal Practices: Moot Court (3)
Prerequisites: Completion of either POSC 311 or 312, and one of POSC 412 or 414, and upper division standing.
Study and acquisition of the skills of lawyering, including legal research, reasoning, writing, and trial advocacy. Substantive study of civil liberties. May be repeated to a maximum of 6 units in different semesters.

418. Legal/Judicial Apprenticeship (3)
Prerequisite: Consent of instructor. Courtroom, law office, public legal agency, and/or non-profit legal agency experience in conjunction with reading and research directed by a faculty member. May be repeated for a maximum of six units in different semesters. No more than three units of this course may apply toward the major in political science. A maximum of six units may be earned in 418, 447, 448, and 408 combined.
419. Senior Seminar in Public Law (3)
Prerequisites: Six units in public law courses or consent of instructor.
Intensive study of selected conceptual and theoretical problems in public law.
Letter grade only (A-F).

422. Public Opinion and Political Behavior (3)
What Americans think and feel about politics and why they act as they do. Topics include the formation and development of public opinion; how public opinion is measured; political socialization; political culture; and political participation.

423. The American Presidency (3)
The roles and powers of the American presidency with emphasis on major public policies of recent presidents.

424. The Legislative Process (3)
Analysis of the origin, development, and behavior of U.S. legislative bodies. Leadership, organization and procedures, problems and principles of law-making. Legislative relations with the executive and other governmental agencies.

429. Senior Seminar in American Government and Politics (3)
Prerequisites: Six units in American government and politics courses or consent of instructor.
Intensive study of selected conceptual and theoretical problems in American government and politics.
Letter grade only (A-F).

430. Fundamentals of Public Administration (3)
Principles and practices of federal, state and local administration. Not open for credit to students with credit in POSC 331.

431. Public Policy Analysis (3)
Examination of the meaning and use of concepts and methods employed in public policy decision analysis, including an overview of the decision process, sources and methods of handling policy-relevant data, and methods and techniques of program evaluation and policy analysis.

432. Public Values and Public Policy (3)
Critical examination of selected value choices involving how and by whom public policy is to be made, and choices involving what should be the content and goals of public policy.

447. Public Service Internship I (3)
Prerequisite: Completion of the GE Foundation; POSC 100; consent of instructor.
Internships in one of the various federal, state, or local governmental units in the immediate area. A maximum of six units may be earned in POSC 415, 447, 448, and 498 combined.

448. Public Service Internship II (3)
Prerequisite: Completion of the GE Foundation; POSC 100; consent of instructor.
Internships in one of the various federal, state, or local governmental units in the immediate area. A maximum of six units may be earned in POSC 415, 447, 448, and 498 combined.

450. Comparative Political Movements (3)
Prerequisites: Completion of the GE Foundation, completion of one Explorations course, and upper division standing.
Comparative study of the causes, progression, and consequences of political movements.

455. Comparative Revolutionary Change (3)
Roots of revolution. Emphasis on the historical setting, ideology, socio-economic factors, political leadership, organization and nationalism. Analysis of revolutionary conditions, courses and tactics past and present.

461. The Politics of Development (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
Problems of political development in the emerging nations of Asia, Africa and Latin America.

463. Nationalism and National Identities (3)
Prerequisites: POSC 100 and completion of GE Foundation requirements.
Impact of nationalism on contemporary world politics. Role of national identities in the rise of political violence, national liberation movements, and the struggle for democracy. Case studies such as Israel, Palestine, United States, Iraq, Russia, Chechnya, Rwanda, India, and Yugoslavia.

469. Senior Seminar in Comparative Politics (3)
Prerequisites: Six units in comparative politics courses or consent of instructor.
Intensive study of selected conceptual and theoretical problems in comparative politics.
Letter grade only (A-F).

481. U.S. - Latin American Relations (3)
Prerequisites: Completion of the GE Foundation, completion of one Explorations course, and upper division standing.
U.S. policies toward Latin America and the Caribbean. Recent debates about these policies as well as their historical and global contexts. Survey of major issues, including U.S.- Cuba policy, transnational crime/drug trafficking, international finance, trade integration, and migration.

482. American Foreign Policy (3)
Prerequisites: Completion of GE Foundation; POSC 100.
Concepts, strategies, and the shaping of American relations with other states, with special emphasis on the post-World War II period. National security, economic, and political diplomatic concerns as they present new challenges to the United States.

485. International Political Economy (3)
Prerequisites: Completion of GE Foundation; POSC 100.
Politics of global relations, including monetary and trade regimes, markets and multinational corporations. Emphasis on issues of confrontation and collaboration between countries regarding development strategies, trade, and technology transfer. Perspective students are strongly recommended to take POSC 371.

486. National Security Policies (3)
Analysis of strategic posture with emphasis on military, political and economic inter-relationships as they influence national security and international politics.

489. Senior Seminar in International Relations (3)
Prerequisites: Six units in international relations courses or consent of instructor.
Intensive study of selected conceptual and theoretical problems in international relations.
Letter grade only (A-F).

490H. Honors Seminar (3)
Prerequisites: Admission to the Honors Program in Political Science.
The nature and development of political science and its relationship to other disciplines in the Social Sciences. Recent developments in conceptual analysis and theory are emphasized. (Seminar) Course meets with POSC 500.

491H. Honors Research (3)
Prerequisite: Admission to the Honors Program in Political Science.
Research for writing an Honors thesis under the direction of a faculty member. (Independent Study)
492H. Honors Thesis (3)
Prerequisites: PolSc 491H.
Research and writing of an Honors thesis under the direction of a
department faculty advisor.
(Independent Study)

493. Special Topics (3)
Prerequisite: Consent of instructor.
Analysis of selected contemporary issues and problems.
Topics to be announced in the Schedule of Classes.

494L. Politics of the Future (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper division standing.
Study of present day global problems: overpopulation, depletion of
resources, environmental decay and their future political
implications. Examination of alternative policies, future politics
and institutional change. The technological revolutions and the
totalitarian temptation.

496. Washington Center Internship (3)
Prerequisites: Upper division standing and consent of instructor.
Students undertake a 30-35 hr. per week career-related internship in
a federal, corporate or independent sector agency located in
Washington D.C. A final written report is required. Concurrent
enrollment in an independent studies course required.
Credit/No Credit grading only. May be repeated to a maximum of
9 units.

497. Special Topics (3)
Prerequisite: Consent of instructor.
Analysis of selected contemporary issues and problems.
May be repeated to a maximum of 6 units with different topics.
Topics to be announced in the Schedule of Classes.

498. Practicum in Politics (1-3)
Prerequisite: Consent of instructor and department chair.
Political or governmental experience supplemented by reading and
research under the direction of a faculty member.
May be repeated for a maximum of six units in the same semester.
No more than three units may apply toward the major in political
science. A maximum of six units may be earned in PolSc 418, 447,
448, and 498 combined.

499. Readings and Conference in Political Science (1-3)
Prerequisite: Consent of instructor.
Directed reading to permit independent pursuit by advanced
students on topics of special interest.
Hours to be arranged. Graduate students who have had this
course as an undergraduate may repeat it.

GRADUATE LEVEL

500. Foundations and Scope of Political Science (3)
Prerequisite: Graduate status or consent of instructor.
Competing approaches to the analysis of political phenomena.
Substantive models of social and political order and change as
well as methodological arguments about the nature of explanation
in political science.
Letter grade only (A-F).

550. Research Methods in Political Science (3)
Prerequisite: PolSc 350.
Methods of empirical political science research; the formulation of
hypotheses, problems and standards of measurement and
observation; methods of data collection; research design and logic
of data analysis. No prior knowledge of statistics is assumed.
Letter grade only (A-F).

590. Advanced Study (3)
Prerequisite: Consent of Graduate Coordinator and instructor.
Study under the supervision of a faculty member. Students must fulfill requirements of a selected upper
division course plus additional work appropriate to graduate study
as determined by the instructor.
May be repeated to a maximum of 6 units with different topics.

599. Graduate Studies (3)
Prerequisites: Consent of Graduate Coordinator and instructor.
Individual graduate level study and research of special topics
under the supervision of a faculty member.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

600. Seminar in International Politics (3)
Prerequisite: PolSc 371 or equivalent.
Examination of the role of power, multiple dimensions of national
interest, collective security, world peace, nationalism, and
imperialism.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

610. Seminar in Comparative Government (3)
Prerequisite: Three upper division units in comparative
government.
Comparative study of government and politics in selected foreign
countries, intensive study of the political institutions and policies of
selected foreign governments. Emphasis on political parties and
contemporary governmental policy.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

620. Seminar in Political Theory (3)
Prerequisite: PolSc 301 or 303 or equivalent.
Analytical and critical examination of the major concepts of political
theory.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

640. Seminar in American Government and Public Law
(3)
Prerequisite: Three upper division units in American Politics or
Public Law.
Intensive study of topics and problems in American government,
politics, law, and the judicial process.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

695. College Teaching Practicum (3)
Prerequisite: Consent of Graduate Director.
Internship provides teaching experience in community college.
No more than three units of this practicum may be applied to the
Master's requirements in Political Science.
Credit/No Credit grading only.

697. Directed Research (1-6)
Prerequisite: Consent of Department Chair.
Individual research or intensive study under the guidance of a
faculty member. Three credits required of non-thesis students who
have been advanced to candidacy for the master's degree in
political science.
A maximum of 3 units may be earned by students with credit in
PolSc 695. May be repeated to a maximum of 6 units. Letter grade
only (A-F).

698. Thesis (1-4)
Planning, preparation and completion of thesis for the master's
degree.
PROFESSIONAL STUDIES
College of Health and Human Services

Acting Chair: James E. Koval
Department Office: Engineering Technology (ET), Room 236
Telephone: (652) 985-4633
Fax: (652) 985-8615
Faculty: Peter Kreyss, Henry O’Lawrence, Victor C.X. Wang
Credential Analyst: Sheryl Cato
Undergraduate Academic Advisor: Henry O’Lawrence
Graduate Academic Advisor: Peter Kreyss
Credential Coordinator: Victor C.X. Wang
Distance Learning Administrator: Linda Martinez
Administrative Support Coordinator: Kathy Allan

The Department of Professional Studies seeks to provide undergraduate and graduate programs and lifelong learning opportunities for adults who seek professional transition, advancement, and leadership roles in their professions. The department focuses on preparing individuals from diverse backgrounds to be highly educated, technologically skilled, and highly productive professionals.

Career Possibilities
Adult Education Professional (Adult Educator) • Secondary School Teacher • Community College Instructor • Career Counselor • Director of Career and Technical Education (CTE) Programs • Vocational Training Instructor • Training Representative • Vocational Supervisor • Regional Occupational Program (ROP) Instructor • Director of Experiential Learning Centers • Consumer Product Demonstrator/Instructional • Peace Corps Worker • Corporate Trainer (For more information, see www.careers.csulb.edu.)

Undergraduate Programs

Bachelor of Science in Occupational Studies
The Bachelor of Science degree in Occupational Studies is tailored primarily toward adult learners serving in business, industry, labor, government, non-profit organizations, and education settings. Each option within the degree is designed to facilitate professional growth to enable graduates to assume advanced and/or leadership roles in their careers.

Option in Transition Services (code OCSTBS04) (120 units)
The option in transition services prepares students for professional positions in secondary and postsecondary occupational special education, rehabilitative services, and related adult services. Students develop competencies as educational and human resource development specialists in transition services for individuals with disabilities. The curriculum for this option was developed under research sponsored by the Office of Special Education and Rehabilitation Services, United States Department of Education. Students may choose one of two tracks in this option: Rehabilitative Services or Special Education.

Requirements
Rehabilitative Services
1. 15 core units: PROF 300, 419, 421, 456, 485
2. 36 unit concentration: PROF 360, 410, 411, 412, 413, 420, 422, 440, 441, 460, 480
3. Completion of general education requirements and elective courses to total 120 units.

Special Education
1. 12 core units: PROF 300, 421, 456, 485
2. 39 unit concentration: PROF 360, 410, 411, 412, 413, 422, 460, 480; EDP 301 or 302; EDSP 350, 454; ETEC 444
3. Completion of general education requirements and elective courses to total 120 units.

Option in Vocational Arts (code OCSTBS05) (120 units)
This option is designed for individuals seeking professional transition, advancement, and leadership roles in their professions, as well as teachers in employment-related educational programs in the fields of adult education and career and technical education. Students may apply courses in this option toward the California Designated Subjects Teaching Credentials in Adult Education and in Career and Technical Education.

Requirements
1. 18 core units: PROF 300, 419; 420; 421, 456, 485
2. 24 unit concentration: PROF 410, 411, 412, 413, 422, 435, 461, 480
3. Completion of general education requirements and elective courses to total 120 units.

Designated Subjects Credential (code 300)
The Designated Subjects Teaching Credential program (DSC) at CSULB is a teacher education program. Candidates in the program may be hired as vocational and adult education teachers in the local public schools. Candidates are required by credential regulations to complete teacher preparation courses within the first two years of holding the credential.

The Designated Subjects Credential program for both career and technical education and adult education consists of 12 semester units of methodology coursework and three semester units of Health Science.
Level I Courses: PROF 410, 411/511
Level II Courses: PROF 412/512, 413/513, 435

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Graduate Programs

Master of Arts in Occupational Studies (code OCSTMA01)

The Master of Arts degree in Occupational Studies is available to qualified students preparing for professional careers in the fields of career, occupational, and vocational education. A major thrust is the development of qualified leadership personnel to serve occupational education programs in public and private education as well as related human resource development programs in California and the nation.

The program in occupational studies consists of three parts. The first part is a 15 unit set of required or core coursework in the following areas:
- History and Foundations of Professional Education (PROF 501)
- Leadership Development (PROF 502)
- Management Skills (PROF 503)
- Research and Evaluation (PROF 505 and 696)

The second part is an area of specialization which is selected by the student in consultation with an advisor. Examples of program specialization areas follow:
- Administrative studies – for persons interested in administration of professional education in public or private sectors.
- Special populations – for persons planning to work with learners who are culturally different, handicapped, and/or limited English proficient in occupational education settings.
- Corporate training and development – for persons interested in development, implementation, and evaluation of training programs in a variety of business or industrial settings.
- Career guidance – for persons interested in counseling and guidance services in education and employment settings.
- Research and evaluation – for persons planning to work in research and evaluation units in public and private agencies or to pursue advanced graduate studies.
- Curriculum and instruction – for persons interested in developing occupational education courses and programs in public and proprietary institutions.

The third program part is the decision to conduct a major research study (the thesis option) or to complete a comprehensive examination near the end of the Master’s program.

Each applicant must submit a copy of transcripts for all college work to the program office, in addition to the official copies required by the Office of Admissions and Records.

Prerequisites
1. A bachelor’s degree in occupational studies, with a minimum of 24 upper division units in vocational education comparable to courses offered at this University, or
2. A bachelor’s degree with a minimum of 24 upper division units comparable to courses offered at this University in the discipline in which the degree was awarded.
3. Successful completion of Departmental Writing Examination.

Advancement to Candidacy
1. Satisfaction of the general University requirements for advancement to candidacy, including successful completion of the Graduation Writing Assessment Requirement (GWAR);
2. Completion of all core courses;
3. Maintenance of “B” average (3.0 GPA) in all work completed in graduate program;
4. Approval of Professional Studies Graduate Faculty and Director of Graduate Studies and Research, College of Health and Human Services.

Requirements
1. Completion of PROF 501, 502, 503, 505, 696;
2. Completion of 30 units of approved upper division and graduate courses and a thesis (PROF 699) and an oral presentation of the thesis approved by Department Graduate Committee, or 36 units of approved upper division and graduate courses and a written comprehensive examination.

Courses (PROF)

UPPER DIVISION

300. Orientation to Professional Studies (3)
Prerequisite: Qualified for admission to the baccalaureate degree program under California Education Code, Sections 85220, 85221, 85222, and 85223.
Philosophy and development of comprehensive employment-related education in California, its present place and functions in the total system of education.
Letter grade only (A-F).

301. Community and Professional Experiential Learning (1-9)
Prerequisite: PROF 300, upper division standing. Open only to majors in options OCSTBS02, OCSTBS03, OCSTBS04, OCSTBS07 of the Bachelor of Science in Occupational Studies degree.
Credit for supervised and documented field experience and professional development in an occupation.
Credit/no credit grading only. Course is repeatable up to 9 units.

330. Literacy for the Workplace (3)
Prerequisite: ENGL 110 or equivalent.
Principles of effective writing and oral communication for education and the workplace; extensive practice in various forms of writing; and case studies of education and workplace reports, negotiations, and oral presentations. Letter grade only (A-F).
Letter grade only (A-F).

360. Foundation of Transition Services (3)
Prerequisite: Consent of instructor.
Overview of the models, personnel roles, practices, and delivery systems of services for youth and adults with special needs in their transition from school to work and independent living.
Letter grade only (A-F).

388L. Technological Literacy (3)
Prerequisite: Completion of GE Foundation requirements, upper division standing, ENGL 100.
Exploration of technological concepts and their impact on individuals, society and culture. Technology as a human adaptive system and its relationship to sociological and ideological systems.
Letter grade only (A-F). (Discussion 3 hours.)
410. Curriculum Development for Designated Subjects (3)
Prerequisites: Enrollment in Designated Subjects Credential Program, BS, or Master's degree programs.
Techniques of curriculum planning and development in occupational and adult education.
Letter grade only (A-F).

411. Instruction and Evaluation for Designated Subjects Teachers (3)
Prerequisites: Undergraduate, PROF 410 or consent of instructor; Graduates: PROF 510 or consent of instructor.
Techniques and evaluation of instruction in adult education and career and technical education Components include motivation, presentation, application, and evaluation techniques.
Letter grade only (A-F).

412. Program Development and Instruction (3)
Prerequisites: Undergraduate: PROF 410 or consent of instructor; Graduate: PROF 510 or consent of instructor.
Advanced techniques of teaching designated subjects. Components include curriculum development, instruction, program planning, classroom management, technology, and teaching practices in adult education and in career and technical education.
Letter grade only (A-F).

413. History and Philosophy of Career and Technical Education (CTE) (3)
Examination of the history, philosophy, legislation, components, and principles of career and technical education, with a specific focus on programs subsumed under the California Designated Subjects Credential (DSC).
Letter grade only (A-F).

417. Technology, Ethics, and Society (3)
Prerequisites: Completion of GE Foundation requirements, upper division standing, ENGL 100.
A framework for understanding the ways in which human societies transform themselves through technological innovation. Ethical questions concerning the social effects of technological change.

419. Human Performance Strategies (3)
Practical and innovative strategies for making optimum use of employees in private and public organizations.
Letter grade only (A-F).

420. Program Evaluation (3)
Analysis of evaluation approaches for programs and systems. Exploration of program evaluation systems currently in operation and design of a functional evaluation plan for a program.
Letter grade only (A-F).

421. Research Design (3)
Study of research designs applicable to a variety of professional fields. Calculation of basic statistics, development of research proposals, use of computers and statistical programs in professional research.
Letter grade only (A-F).

422. Grants and Contract Writing (3)
Study of process of contract and grant proposal writing for public and private funding agencies, including budget preparation.
Letter grade only (A-F).

435. Principles of Adult Education (3)
Instruction on the scope and function of adult education including the local, state, and federal levels. Principles and practices of adult education, philosophical perspectives, and professional issues are discussed.
Letter grade only (A-F).

440. Foundations of Rehabilitation (3)
Development of specialized skills and knowledge needed to assist in working with family systems in rehabilitation settings. Components include analysis of current issues relevant to the inclusion of families in the rehabilitation process.
Letter grade only (A-F).

441. Assessment in Rehabilitation (3)
Prerequisites: PROF 440 or consent of instructor.
Overview of rehabilitation assessment, labor markets, and career planning to help individuals with disabilities enter or return to employment and compete successfully with others. Components include assessment approaches, counseling/career theories, practices of human services and rehabilitation studies, and legislation.
Letter grade only (A-F).

456. Attitude Awareness in Education and the Workplace (3)
Principles of communication, human relations, understanding other people, attitude recognition, and development, and mental steps to motivation.
Letter grade only (A-F).

457. Working Around the World (3)
Prerequisites: Completion of GE Foundation requirements, one or more exploration courses, upper division standing.
The effects of religion, language, culture, political structure, economics, and physical environment on the development of the workplace and people's perceptions of work and occupations.
Letter grade only (A-F).

460. Instructional Methods for Learners with Special Needs (3)
Identification, assessment and instructional development strategies for students or employees with diverse needs.
Letter grade only (A-F).

461. Instructional Methods for Teachers of Diverse Students (3)
Techniques of teaching sociologically, economically, and culturally diverse learners. Emphasis on methods, motivation, counseling, and instructional organization.
Letter grade only (A-F).

470. Seminar (3)
Study of the major problems and issues confronting the educator and practitioner.
Letter grade only (A-F).

480. Internship (1-4)
Internship in community, business, or school employment and training development programs that involve instruction, administration and research.
Letter grade only (A-F).

483. Senior Thesis or Project (1-3)
Identification of, planning, preparation and completion of a project to solve or research problem(s) particular to a business, educational or industrial setting. Written report required.

485. Identifying Management Competencies (3)
Lecture and discussion focusing on identification and development of competencies requisite for effective program management, including discussion of the management of ideas, material, people, and processes and their interrelationships.
Letter grade only (A-F).

485. Emergency Management Operations and Techniques (3)
Management operations and techniques in contemporary emergency service organizations. The role of supervisors, managers, and executives in the leadership process.
Letter grade only (A-F)
488. Case Studies of Critical Incidents (3)
Case studies to illustrate commonly encountered problems and
issues in the management of human-caused and natural disasters.
Incidents will be studied for the purpose of learning best practices
and for the development of mitigation, response, and recovery
plans.
Letter grade only (A-F).

490. Independent Study (1-3)
Individual research and study under the direction of a faculty
member in areas not an integral part of any regular course. Written
report is required.
May be repeated to a maximum of 3 units. Letter grade only (A-F).

492/592. Training the Trainer (4)
Needs assessment, instructional design, facilitation, evaluation,
organizational development, succession planning and international
and cross-cultural training.
Not open for credit to graduate students with credit in PROF 492.
Letter grade only (A-F).

494/594. Organization Development (3)
Concepts, models, theories, and techniques for planning,
facilitating, and evaluating interventions for organizational
development.
Not open for credit to graduate students with credit in PROF 494.
Letter grade only (A-F).

497. Practicum (1-6)
Action-oriented organized learning directed toward identifying the
major problems and issues confronting education and work and
suggesting solutions for the practitioner.

499. Special Topics (1-3)
Topics of current interest will be selected for intensive group study.
Topics will be announced in the Schedule of Classes. May be
repeated to a maximum of 6 units.

GRADUATE LEVEL

501. Foundations of Professional Education (3)
History and development of education for work in the United
States. Multiple purposes and principles, key federal legislation,
and contemporary issues and developments affecting education for
professional preparation and development.
Letter grade only (A-F).

502. Administrative Leadership (3)
Concepts and techniques of personal and professional
administrative leadership.
Letter grade only (A-F). Not open for credit to students with credit in
PPA 502.

503. Program Management (3)
Advanced principles and procedures of management emphasizing
operations, and evaluation of employment and training related
programs.
Letter grade only (A-F).

505. Critical Analysis of Issues and Problems in the
Workplace (3)
Prerequisite: PROF 421 or equivalent.
Application of quantitative and qualitative research techniques.
Topics include research design, survey research, and statistical
analysis.
Letter grade only (A-F).

510. Workforce Development Policy: Trends, Issues,
and Analyses (3)
Prerequisite: Graduate standing.
Techniques for evaluating policy and for understanding the
administrator's central role as a connector between public schools
and universities and between business, industry, and local
communities.
Letter grade only (A-F).

511.411. Instruction and Evaluation for Designated
Subjects Teachers (3)
Prerequisites: Undergraduates: PROF 410 or consent of instructor;
Graduates: PROF 510 or consent of instructor.
Techniques and evaluation of instruction in adult education and
career and technical education. Components include motivation,
presentation, application, and evaluation techniques.
Letter grade only (A-F).

512.412. Advanced Program Development and
Instruction (3)
Prerequisites: Undergraduates: PROF 410 and 411, or consent of
instructor; Graduates: PROF 510 and 511, or consent of instructor.
Advanced techniques of teaching designated subjects.
Components include curriculum development, instruction,
program planning, program evaluation, classroom management,
technology, and teaching practices in adult education and in
career and technical education.
Letter grade only (A-F).

513.413. History and Philosophy of Career and
Technical Education (CTE) (3)
Examination of the history, philosophy, legislation, components,
and principles of career and technical education, with a specific
focus on programs sanctioned under the California Designated
Subjects Credential (DSC).
Letter grade only (A-F).

514. Municipal Law for Administrators (3)
Examination of major laws and legal issues affecting local
government and governmental agencies.
Letter grade only (A-F). Same course as PPA 514. Not open for
credit to students with credit in PPA 514.

535. Intergovernmental Relations (3)
Fundamental concepts and issues of intergovernmental relations
in the United States.
Letter grade only (A-F). Same course as PPA 535. Not open for
credit to students with credit in PPA 535.

555. Government Budgeting and Finance (3)
The formulation phase in the budget cycle. Major concepts
and skills associated with budget preparation for all levels of
government.
Letter grade only (A-F). Same course as PPA 555. Not open for
credit to students with credit in PPA 555.

577. Public Sector Human Resources Management (3)
The civil service system and its impacts on public personnel
systems; laws which affect the operation of a personnel system;
impact of labor negotiations on personnel systems; written
policies and procedures: the personnel system as a change
agent.
Letter grade only (A-F). Same course as PPA 577. Not open for
credit to students with credit in PPA 577.

591. Corporate Training Development (3)
The selection and organization of corporate training curricula and
development of courses of study to be used in public and private
professional education programs.
Letter grade only (A-F).

592/492. Training the Trainer (4)
Needs assessment, instructional design, facilitation, evaluation,
organizational development, succession planning and
international and cross-cultural training.
Not open for credit to graduate students with credit in PROF 492.
Letter grade only (A-F).
593. Corporate Training Methods (3)
Teaching techniques, philosophy, organization and planning in corporate training programs, and public and private education.
Letter grade only (A-F).

594. Organization Development (3)
Concepts, models, theories, and techniques for planning, facilitating, and evaluating interventions for organizational development.
Not open for credit to graduate students with credit in PROF 494.
Letter grade only (A-F).

595. Succession Planning for Organizations (2)
Techniques to ensure the continued, effective performance of an organization by making provision for the development, training, and replacement of key people in work activities over time.
Not open for credit to graduate students with credit in PROF 496.
Letter grade only (A-F).

650. Graduate Seminar (3)
Study of selected topics including important legislation, industrial innovations, technical change, and contemporary problems.
Topics will be announced in Schedule of Classes.
Letter grade only (A-F). May be repeated for a maximum of 6 units.

696. Research Methods (3)
Prerequisite: PROF 421 or equivalent.
Selecting, defining and presenting methods of research; demonstration of research theory to problem solution.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisite: Advancement to candidacy.
Research in an area of specialization under the direction of a faculty member.
Letter grade only (A-F).

698. Thesis (1-4)
Prerequisite: Advancement to candidacy.
Planning preparation and completion of a thesis.
Letter grade only (A-F).
study at the doctoral level. The Master of Science in Human Factors provides training in human-machine interactions, leading to employment or to doctoral study. The Master of Science in Industrial-Organizational Psychology provides training in organizational and personnel work, leading to employment or to doctoral study.

Undergraduate Programs

Bachelor of Arts in Psychology (code PSY BA01) (120 units)

The Psychology Department maintains an undergraduate advising and admissions office in Psychology Building Room 208, (562) 985-5660. Go to http://www.csulb.edu/cla/psychology, select "Undergraduate Program" and "Peer Advisor Center." Advisors are available year round to assist students with admission, registration, degree requirements, and information about graduate study. An undergraduate handbook is available. The number of applicants to the major in Psychology has typically exceeded the number that can be accommodated by the department's resources. For this reason the undergraduate major has been designated as impacted by the California State University and a supplemental application may be required.

Admission Under Impaction

To be eligible for admission to Psychology, applicants must demonstrate the following prior to the semester for which the application is submitted. Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have completed the following prerequisite courses, each with a minimum grade of "C": PSY 100, 210, and 220 or their equivalents. Applicants must have completed at least 60 units applicable to a CSULB degree prior to the term for which admission is sought. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission for admission based on cumulative grade point average, with a minimum of 2.25. Students provisionally admitted to the upper-division major must complete PSY 301 with a passing grade no later than the end of their first semester in the major, or they will be dropped from the major.

Learning Goals and Technical Skills

Students who graduate with a major in psychology should have current knowledge of:
1. the major theories in psychology and their influences across subfields and time
2. the major methodologies of psychological research and fundamental statistical concepts
3. the biological processes underlying behavior
4. sensation, perception, information processing and retention

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5. how behaviors develop and change throughout the life span.
6. how internal, environmental, and social factors influence behavior.
7. individual differences in behavior, including those related to gender, ethnicity, and culture.
8. different perspectives on the origin and treatment of abnormal behavior.
9. ethical issues in teaching, research, and the practice of professional psychology.

In the course of learning the above, students are expected to graduate with the ability to:
1. design and implement research, analyze data appropriately and judge the significance of findings.
2. critically evaluate psychological research as well as popular notions of human nature.
3. use the primary literature of the field and prepare a clear, organized summary of a topic.
4. use computers for the preparation of manuscripts, the analysis of data, and communication.
5. understand and work effectively with a diversity of individuals and groups.
6. apply theory and research to contemporary problems.
7. maintain currency in the field and utilize that knowledge in their lives.

Requirements
The psychology curriculum is designed to provide undergraduate students with a broad background in the principles of Psychology.

Lower Division: (14 units) PSY 100, 210, 241, 220.
Upper Division:
1. 3 units – PSY 301;
2. 6 units – two courses from PSY 331, 332, 333, 336, 340, 341, 342;
3. 3 units – two courses from PSY 351, 356; 361 or 365;
4. 6 units – two courses from (not from the same group):
   A. PSY 354, 360, 368, 370, 380;
   B. PSY 310, 314, 315, 350;
   C. PSY 339, 340, 370, 375, 376, 381;
5. 6 units – 400 level PSY courses. No more than 3 units from 405, 406A or 406B may be counted in this category. PSY 499 cannot be counted to satisfy this requirement.
6. 6 units – any upper division psychology courses not used to satisfy the requirement of sections 2 through 5;
7. 6 units – upper division units in African Studies, American Indian Studies, American Studies, Asian and Asian American Studies, Anthropology, Chicano and Latino Studies, Economics, Educational Psychology, Geography, History, Human Development, Latin American Studies, Political Science, Social Work, Sociology, Women’s Studies. At least 3 units must have an emphasis in contemporary U.S. ethnic studies. A list of acceptable ethnic studies courses may be obtained from the Psychology Advising Office in PSY 206.

Honors in Psychology
Admission Requirements
1. Admitted to the major.
2. A 3.5 GPA in all Psychology courses.
3. At least a 3.25 overall GPA.
4. Letter of support from a psychology faculty member agreeing to serve as Honors Thesis Chair.
5. Submit honors application to the Psychology Honors Advisory Committee.

Requirements
1. Complete all regular requirements for the psychology major.
2. Complete the following: PSY 310 (4 units), 499H (3 units), 499H (3 units), 499H (3 units).
3. Complete 3 units in any other 400-level psychology course exclusive of PSY 405, 406, or 499.

Minor in Psychology (code PSY_U1M01)
The Minor in Psychology is available to any non-Psychology major.
A minimum of 23 units which must include: PSY 100, 210, 241, and 220, nine upper division psychology units including at least one course from PSY 331, 332, 333, 336, 340, 341, or 342; and at least one course from PSY 351, 361, 365, and one elective.

Graduate Programs
Information about graduate programs may be obtained by examining the Department’s website. Go to karl.papubcsulb.edu/cla/psychology, select “Graduate Program.”
The Department of Psychology offers three options for graduate study leading to the Master’s degree. One leads to the Master of Arts degree in Psychological Research. The other two options lead to the Master of Science degree, one in Human Factors, and one in Industrial/Organizational Psychology. In each option a basic core of courses, including a thesis, is required; however, there is the opportunity for additional work in areas of special interest.
The Master of Arts – Psychological Research program prepares students for doctoral study, provides a general background in Psychology, and offers electives in clinical, physiological, and other traditional areas of psychology. The Master of Science in Industrial/Organizational Psychology prepares students primarily for professional work in business setting, although some students proceed to advanced study. The Master of Science in Human Factors program prepares students for careers in applied experimental psychology, with emphasis in aviation psychology and computer usability.

Admission to Graduate Programs
An application for admission may be obtained on the Psychology Department website (go to karl.papubcsulb.edu/cla/psychology, select “Graduate Program”). Acceptance by the department is contingent upon (a) GPA based on last 60 semester units available at the time of application, (b) Graduate Record Examination (GRE) scores.
on the verbal and quantitative sections; and (c) three letters of recommendation. For entry in the fall semester, all application materials, including complete transcripts, GRE scores and letters of recommendation, must be received by the department Graduate Advisor by February 14 for the Master of Science – Industrial/Organizational option, February 21 for the Master of Arts – Psychological Research option, and March 1 for the Master of Science – Human Factors option.

Financial Support

Students accepted into the graduate programs may apply for graduate assistantships (which provide monthly stipends) in Psychology or related departments on campus. Federal Work Study assignments are available in the Department, but must be applied for through the University Financial Aid Office one or two semesters prior to obtaining the assignment; other aid available includes the Graduate Research Fellowship (GRF). One student from the Master of Arts – Psychological Research and the Master of Science – Industrial/Organizational Psychology programs’ entering class may be awarded a J. Robert Newman Scholarship. A Boeing University Relations Human Factors Graduate Scholarship is offered through the Master of Science – Human Factors program.

Master of Arts in Psychology
(code PSY_MA01)

This 30-unit degree program provides graduate psychology training for further study leading toward a doctorate and careers requiring masters level training. Core courses include quantitative and research methods and courses in the basic content areas of Psychology. Students from our program who later enter doctoral programs consistently inform us that they find themselves very well prepared for doctoral study as compared to other students.

Prerequisites

All students fulfill the requirements in Item #1 and choose either Item #2 or Item #3.

1. Six units of college level work in chemistry, physics, biology or mathematics as approved by the graduate advisor.

2. A bachelor’s degree with a major in psychology that includes:
   A. two courses from the following (not from same group):
      1. PSY 331, 332, 333
      2. PSY 336
      3. PSY 340, 341, 342
   B. one of the following: PSY 351, 356, 361, 365
   C. PSY 310 OR
3. A bachelor’s degree with a major other than psychology and 24 units of upper division psychology substantially equivalent to those required for the baccalaureate degree at this university, including:
   A. two courses from the following (not from same group):
      1. PSY 331, 332, 333
      2. PSY 336
      3. PSY 340, 341, 342
   B. one of the following: PSY 351, 356, 361, 365
   C. PSY 310

Advancement to Candidacy

Advancement to Candidacy is the next step after achieving classified status and confers catalog rights to graduate students. Advancement to Candidacy also signifies approval of a plan of study by the graduate student’s major, department, and college. The requirements to advancement are:

1. Application for Advancement to Candidacy must be completed prior to or concurrent with enrollment in PSY 698 (Thesis).
2. Classified status.
3. An approved program of studies for the Master of Arts, Research option degree.
4. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
5. A minimum 3.0 overall GPA and a 3.0 GPA in all units undertaken for the program (at least 6 graduate units).
6. Enrollment in regular session.

Requirements

1. The student must complete, as a graduate student, 30 units of graduate coursework (501-699), 24 of which must be in Psychology (not including PSY 697) including:
   A. either PSY 511 or 512 if 411 or 412 or equivalent not taken as an undergraduate;
   B. one course chosen from PSY 518, 527, 533, 541, 556, or 582, if corresponding 400-level course or equivalent not taken as an undergraduate;
   C. PSY 696 (comprehensive exam required);
   D. three courses chosen from PSY 631, 632, 633, 634, 637, 651, 656, 661 or 678 (with comprehensive exams in two of the three courses); PSY 698 (6 units).
2. With the Graduate Advisor’s approval a maximum of six units from related areas may be used for six of the 30 units.
3. Attendance at six Department Colloquia, four of which must be completed prior to final oral examination.
4. Completion of all requirements as established by the M.A. Psychological Research Committee.
5. Comprehensive examinations taken in three of the four required graduate seminars, as outlined in 1C and 1D above.

Master of Science in Psychology

Option in Human Factors
(code PSY_MS04)

The Option in Human Factors under the MS in Psychology is designed to prepare students to apply knowledge of psychology to the design of jobs, information systems, consumer products, workplaces and equipment in order to improve user performance, safety and comfort. Students in the program acquire a background in experimental psychology and research methods. They are trained in the application of the material through courses in human factors, computer applications and interface design. Special topics seminars, in areas such as large-scale

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simulation and usability testing, complement the core program of study. Finally, students complete a thesis in their chosen area of human factors.

This option is designed as a terminal degree, but also provides excellent preparation for advanced graduate work.

**Prerequisites**

1. An undergraduate major in Psychology or in another field with 24 units of upper division psychology. A minimum grade point average of approximately 3.0 for the last 60 semester units (90 quarter units) and for all Psychology units.

2. The following psychology courses or their equivalents: PSY 310, 331, 332. Students lacking only 310 may be admitted to the program but must complete the course their first semester in attendance.

   Recommended: CECS 174 or any course in computer programming; One of the following psychology courses or their equivalents: PSY 340, 341, 342.

**Advancement to Candidacy**

Satisfy the general requirements of the university for advancement to candidacy.

**Requirements**

1. A minimum of 36 units of upper division and graduate work including PSY 511, 518, 527, 627, 633, 667, 698, 696, 698, 634 or 634; MAE 508, CEEC 448; and 1 course chosen from PSY 512, 544, 666; ENGL 419 or otherwise approved by the program committee.


**Option in Industrial and Organizational Psychology (code PSY_MSIO)**

Students admitted to this 36-unit program prepare for business and industrial positions including personnel selection and organizational development, employee training, applicant and employee testing, etc. Graduates usually go directly into business and industry, though some enter Ph.D. programs.

**Prerequisites**

1. A bachelor’s degree with a major in psychology or 24 upper division units of psychology.

2. PSY 220, 310, 314 or 315, 332 or 333, and 351 or 453/653.

Students may be admitted to the MSIO program if they lack only one required course. The missing course must be completed within the first year of graduate study. However, PSY 314 or 315 AND 351 or 453/653 must be completed prior to MSIO program entry, as they are prerequisites for the first semester MSIO program coursework. Students missing more than one prerequisite course at the time of application may be offered provisional admission if they submit an approved plan to take the missing courses prior to admission to the program.

**Advancement to Candidacy**

Advancement to Candidacy is the next step after achieving classified status and conforming catalog rights to graduate students. Advancement to Candidacy also signifies approval of a plan of study by the graduate student's major, department, and college. The prerequisite to advancement arc:

1. Application for Advancement to Candidacy must be completed prior to or concurrent with enrollment in PSY 688 (Thesis).

2. Classified status.

3. An approved program of studies for the Master of Science, Industrial and Organizational option degree.

4. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).

5. A minimum 3.0 overall GPA and a 3.0 GPA in all units undertaken for the program (at least 6 graduate units).

6. Be enrolled in regular session.

**Requirements**

1. The student must complete a minimum of 36 units of graduate course work. The following courses are required: PSY 581, 585, 515, 582, 681, 698, 686, 696, and 698; two courses chosen from PSY 511 or 512 or an approved substitute; one course chosen from PSY 518, 527, 553, 575, 634, 637, 651, 656, or HRM 446. (3)


3. Students with credit in 411 or 412 as undergraduates may petition the MSIO Program Committee to substitute a maximum of 3 units from related areas toward the 36-unit program.

**Courses (PSY)**

**LOWER DIVISION**

100. General Psychology (3)

Prerequisite/Corequisite: One of the GL Foundation courses
Introduction to the scientific study of human behavior. Provides a basis for further study and for application to everyday life. Topics include biological foundations of behavior, motivation, emotion, learning, memory, thinking, personality, development, social behavior, abnormal behavior, methods of therapy.

130. Critical Thinking (3)

Prerequisite: Completion/concurrent enrollment GE A1 requirement
The nature of critical thinking; models and strategies; common fallacies of reasoning; self-regulation in the thinking process; application of critical thinking to specific areas.

150. Personality and Social Behavior (3)

Prerequisite/Corequisite: One of the GE Foundation courses
Psychological principles pertinent to the understanding of personality and interpersonal dynamics. Discussion of research and theories of social motivation, conflict and anxiety, adjustment mechanisms and personality change.

210. Introductory Statistics (4)

Prerequisites: PSY 100 completion of GE A1 requirement, and eligible to take a General Education Mathematics course.
Calculation and meaning of statistical measures. Descriptive and inferential statistics.
Not open for credit to students with credit in PSY 110. (Lecture 3 hours, laboratory 2 hours)

220. Research Methods (4)

Prerequisites: PSY 100, 210 or equivalent and GE A1 requirement.
Introduction to basic research methods in Psychology. Principles of experimentation, naturalistic observation, correlational studies.
Not open for credit to students with credit in PSY 200. (Lecture 3 hours, laboratory and field 3 hours)
241. Psychobiology (3)
Prerequisites: PSY 100, Completion of GE A1 requirement.
Introduction to the study of behavior from a biological point of view. Biological systems and processes underlying behavior, with emphasis on brain mechanisms, presented in the context of fundamental concepts and issues in psychology.
Not open for credit to students with credit in PSY 141.

278. Prevention and Treatment of Domestic Violence (3)
Prerequisite: PSY 100
In-depth look at domestic violence. Students learn about types of violence, prevalence rates and the efficacy of domestic violence. Students also learn about legal, medical and therapeutic responses to domestic violence, as well as prevention and public policy interventions.

UPPER DIVISION

300H. Mind Control or Freedom (3)
Prerequisites: Completion of GE Foundation requirements, PSY 100. Upper division standing.
Theories of persuasion and how people control others using informational, manipulative and coercive approaches; sources of power in society; and the psychological and ethical implications of freedom and responsibility in coping with control attempts by friends, government, advertisers, cults.

301. Introduction to Psychology as a Discipline and Profession (3)
Prerequisite: PSY 100.
Covers scope and value of psychology major including preparation for graduate work, careers available at varying degree levels, ethical considerations, key historical concepts, and essential skills like library search techniques, using APA format, and study skills. (6 hrs activity)

310. Intermediate Statistics (4)
Prerequisites: PSY 100, 210.
Basic theoretical concepts of statistics and use of these concepts in selection and development of model testing, hypothesis testing and parameter estimation procedures. Both single measure (univariate) and correlation (bivariate) concepts are included. (Lecture 3 hours, laboratory 2 hours)

314. Psychological Assessment (3)
Prerequisite: PSY 100, 210, 220.
Principles of assessment applied to the measurement of individual behavior and to programs intended to affect behavior. Includes interviews, tests and other methods.

315. Principles of Psychological Testing (3)
Prerequisites: PSY 100, 210, 220.
Principles and practices of group and individual testing in the fields of intelligence, aptitude, achievement, personality and interest. Emphasis on the evaluation of tests as measuring devices, their applicability and limitations.

327L. Introduction to Human Factors (3)
Prerequisites: Completion of the GE Foundation requirements, one or more Explorations courses and upper division standing.
Introduction to the field of human factors, a discipline concerned with designing products and systems for human use. Letter grade only (A-F).

329A. Advanced Research Methods in Mental Health (3)
Prerequisites: PSY 100, 210, 220, Admission to COR program and consent of instructor.
Introduction to fundamental and advanced methods relevant to mental health research as well as current directions and cutting edge research in the field of mental health. Development and execution of an independent research project on topics related to mental health.

329B. Advanced Research Methods in Mental Health (3)
Prerequisites: PSY 328A, Admission to COR program and consent of instructor.
Introduction to fundamental and advanced methods relevant to mental health research as well as current directions and cutting edge research in the field of mental health. Development and execution of an independent research project on related topics.

331. Sensation and Perception (3)
Prerequisites: PSY 100, 241, 220.
An introduction to the scientific study of sensory processes and perceptual principles from a psychophysical and physiological perspective, and the methods used to investigate them. Topics may include vision, audition, psychophysics, and object and space perception.

332. Cognition (3)
Prerequisites: PSY 100, 241, 220.
Study of higher order processes basic to the acquisition of knowledge. Includes thinking, problem solving, creativity, information processing, decision making, judgment, concepts and imagination.

333. Psychology of Learning (3)
Prerequisites: PSY 100, 241, 220.
Learning is a relatively permanent change in behavior resulting from experience. Emphasizes interaction of biological and environmental variables in the processes of instinct, habituation, sensitization, Pavlovian conditioning, instrumental learning, and cognition; examination of methods, theory and applications.

336. Psychology of Emotion (3)
Prerequisites: PSY 100, 241, 220.
Discussion of research and theories of emotions. Includes the evolution of emotions, neuropsychological mechanisms of emotion, development of emotions, expressions of emotions, and emotions in social relationships, with an emphasis on the emotions of anger, grief, happiness, jealousy, and love.

339L. Psychology of Sport Behavior and Athletic Performance (3)
Prerequisites: Completion of the GE Foundation, PSY 100 and upper division standing.
Psychological dimensions of attitudes, behaviors, and performance in sport and exercise environments.
Same course as KIN 339L. Not open for credit to students with credit in KIN 339L.

340. Physiology of Behavior (3)
Prerequisites: PSY 100, 241, 220.
An in-depth examination of central nervous system (CNS) components that create our behavioral capabilities. Topics include major structural and functional aspects of the brain and of selected systems representative of the sensory, integrative, and motor capabilities of the CNS.

341. Neuropsychology (3)
Prerequisites: PSY 100, 241, 220.
Localization of brain regions responsible for human capabilities as studied in patients with brain damage, normal people, and nonhumans. How brain damage is assessed and treated. Relation of findings to function of normal brains.

342. Psychopharmacology (3)
Prerequisites: PSY 100, 241, 220.
Introduction to the effects of major classes of psychoactive drugs on the central nervous system. Topics include anatomical and functional characteristics of neurotransmitter systems; pharmacology of drug administration; and physiological and psychological actions of select classes of psychoactive drugs.

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346. Evolutionary Psychology (3)
Prerequisites: Completion of GE Foundation and one or more Explorations courses, PSY 100 and upper division standing.
Human social behavior as seen in context of evolutionary biology. Topics include the importance of kinship in human societies, altruism and reciprocally, human sexuality, parent-offspring relations, ethical and legal systems and religion.

350. Psychology and Contemporary Social Issues (3)
Prerequisites: Completion of GE Foundation, PSY 100 and upper division standing.
Application of social psychological principles toward understanding major contemporary social issues. Each issue covered is presented in its historical context, and the economic, political, social and cultural aspects are examined.

351. Social Psychology (3)
Prerequisites: Completion of GL Foundation and PSY 100.
Study of individuals and groups as they are affected by social interactions. Topics may include social cognition, attitudes and persuasion, social influence, interpersonal perception and attraction, aggression, altruism, and group dynamics.
Not open for credit to students in SOC 336.

354. Psychology of Women (3)
Prerequisite: PSY 100.
Examination of women's roles throughout the lifespan including gender differences, body image, pregnancy, sexuality, communication, relationships, motherhood, work, physical and mental health. Attitudes toward women, including violence against women, may be explored.
This course is for both men and women.

356. Personality (3)
Prerequisites: Completion of the GE Foundation and PSY 100.
Survey of classical theories and methods in Personality psychology with a sampling of current research. Examines how and why people differ in personality, and the ways these differences are reflected in thoughts, feelings, motivations, and behaviors.

359. Self-Observation and Self-Development (3)
Prerequisite: PSY 100.
Examination of personal traits and behavior patterns as reflected by objective measures, group interactional procedures and video feedback. Development of self through systematic self-observation.

361. Psychology of Child and Adolescent Development (3)
Prerequisites: Completion of the GE Foundation and PSY 100.
Developmental changes from prenatal development through adolescence. Emphasis on ethnocultural, gender, and social class differences in development combined with emphasis on the universal features of human development. Topic coverage includes physical-motor, social, physiological, and cognitive aspects of development.

362. Autism Spectrum Disorders (3)
Prerequisite: PSY 100
Introduction to autism spectrum disorders (ASDs), including consideration of behavioral and cognitive issues, comorbid disorders, prevalence, possible etiology and psychological impacts on families. Examination of treatment approaches such as behavioral, speech, physical, occupational, educational, dietary and biomedical therapies.

363. Developmental Psychopathology (3)
Prerequisite: PSY 100
This course covers research on psychiatric disorders of children and adolescents from a developmental perspective. The symptoms, causes, course and prevention of the most important childhood disorders are discussed, including conduct disorder, attention deficit hyperactivity, depression, anxiety disorder, autism and mental retardation.

365. Psychology of Adult Development and Aging (3)
Prerequisite: PSY 100.
Methodological and theoretical problems and issues in the study of developmental change processes from young adulthood through old age. Topical coverage includes physical, motor, social, physiological and intellectual aspects of behavioral functioning.

366. Fathers and Fathering: A Psychosocial View (3)
Prerequisites: PSY 100, SOC 100 or CDFS 111.
Overview of psychological literature on parenting with emphasis on fathers/fatherhood in the U.S. Focus on current literature and research regarding the perceived and changing roles of fathers, including ethnic fathers, in an effort to diminish stereotypes.
This course is for both men and women. Same course as CDFS 358. Not open for credit to students with credit in CDFS 358.

368. Asian American Personality and Mental Health (3)
Prerequisites: PSY 100 and upper division standing.
Survey of psychological issues facing Asian Americans, including the historical, sociopolitical, and cultural influences that shape personality and mental health of individuals in the diverse population group.

370. Abnormal Psychology (3)
Prerequisites: Completion of the GE Foundation and PSY 100.
Overview of abnormal behavior as a portion of continuum of human behavior. Covers field's historical approaches, range of psychological disorders, as well as causes, consequences, and treatment of these disorders.

373. Introduction to Clinical Psychology (3)
Prerequisite: PSY 100, 370.
Survey of field of clinical psychology including an introduction to its history, diagnostic procedures, therapeutic approaches, clinical training, research approaches, and ethical issues.

375. Community Psychology (3)
Prerequisites: Completion of the GE Foundation, PSY 100, and upper division standing.
Examination, prevention, and interventions for contemporary social problems. First-hand experience with community assessment, intervention, evaluation, and social policy through community service learning. Emphasis on contemporary analyses, community strengths, and culturally-appropriate solutions.

378. Health Psychology (3)
Prerequisite: PSY 100.
Research and theory regarding attitudes, beliefs, and behaviors related to health and illness. Individual difference variables will be examined. Analysis of applications of psychology to prevention, counseling, and treatment of major health problems.

379. Psychology of Stress (3)
Prerequisite: PSY 100.
Introduction to the scientific study of stress and its relationship to health. Course content will focus on understanding the nature of psychological stress, its physiological correlates, and specific strategies used to help in understanding and managing our own experience of stress.

381. Introduction to Industrial-Organizational Psychology (3)
Prerequisite: PSY 100.
Introduction to theories, methods, findings, and applications of industrial-organizational (I-O) psychology. Topics covered include job analysis, employee recruitment and selection, performance appraisal, employee training and development, work stress, teams, satisfaction, motivation, and leadership.
382. Introduction to Cognitive Science (3)
Prerequisites: Completion of all Foundation courses; at least one Explorations course; upper-division standing; at least six units in two areas chosen from Computer Science, Linguistics, Philosophy, and Psychology.
Introduction to cognitive science including historical development, foundational philosophical presuppositions, core topics, underlying theoretical framework, explanatory goals, different methodologies and theoretical contributions of its constitutive disciplines.
Same course as Phil 482. Not open for credit to students with credit in Phil 482.
383. Women, Family, and Work Issues (3)
Prerequisite: PSY 100 or equivalent.
Opportunities and challenges women in U.S. face with family and work issues explored. Specifically, cultural influences, complex family compositions, work demands, and the collective influence of these factors on women's life choices examined.
384. Workplace Diversity: Barriers and Strategies (3)
Prerequisite: PSY 100 or equivalent.
Current U.S. workforce is diverse along gender, racial, and multicultural factors, such as men, women, European Americans, African Americans, Latinos, Asian Americans and others. Understanding psychological barriers and developing strategies at the individual, group, and organizational levels to create a positive multicultural workplace will be explored.
390. Special Topics in Psychology (3)
Prerequisite: Consent of instructor.
Topics of current interest in psychology selected for intensive development.
May be repeated for a maximum of 9 units with different topics; no more than 6 units may be used for the major.
401./501. History of Psychology (3)
Prerequisites: Psychology major, PSY 100, 301; six upper division units in psychology.
Historical background and development of psychology as a science. Contributions of major individuals and systems.
Letter grade only (A-F).
405. Field Work in Psychology (3)
Prerequisites: Psychology major (3.0 GPA), 12 units upper division in PSY, PSY 301, consent of Instructor, letter of recommendation. Supervised internship in a Psychology-related position in the surrounding community. Placements include schools, hospitals, clinics, and community mental health agencies.
Credit/No Credit grading only. May be repeated to a maximum of 6 units in different semesters.
406A.B. Applications of Psychology (3)
Prerequisite: Psychology major, PSY 100, 301; consent of instructor.
Theoretical and laboratory training in the topic areas are followed by applied work with clients, schools, businesses, etc., as appropriate. Students are supervised by the course instructor. Students apply for 406A B during the semester before the courses are taken. Letter grade only (A-F).
407./507. Introduction to Family Therapy (3)
Prerequisites: Psychology major, PSY 301 and 375 or 475.
Survey of the field of family therapy including origins of differences in family structure, historical development of family therapy theory and practice.
Letter grade only (A-F).
411./511. Statistical Design and Analysis of Experiments (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 or consent of instructor.
Focuses on logic, application, and interpretation of analysis of variance (ANOVA) models in addition to other statistical procedures. Various issues of research design and experimentation are also covered.
Letter grade only (A-F).
412./512. Multivariate Statistical Analysis (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 or consent of instructor.
Covers logic, application, and limitations of multivariate (multiple independent and dependent variables) statistics. Topics may include multivariate analysis of variance, single and multiple correlation/regression, logistic regression, factor analysis, and path analysis.
Letter grade only (A-F).
415./515. Test Construction Theory and Practice (3)
Prerequisites: PSY 100, 301, 310, PSY 314 or PSY 315 and Psychology major.
Consideration of problems in the construction of tests for personnel selection, educational screening, personality assessment, aptitude estimating, and measurement of academic achievement. Practice in the development of tests.
Letter grade only (A-F). (Lecture 2 hrs, laboratory 2 hrs)
418./518. Computer Applications in Psychology (3)
Prerequisites: Psychology major, PSY 301; PSY 310 or equivalent or consent of instructor.
Foundations of computer technology and its application to psychology. Emphasis on real-time control by digital computers in psychological research and applications.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)
423./523. Qualitative Methods and Analysis. (3)
Prerequisites: Psychology Major, PSY 301.
Overview of qualitative research methods and analysis. Students learn to conduct observations, focus groups and qualitative interviews. Inductive analysis techniques such as content analysis and narrative analysis. Application of these skills in a qualitative evaluation of a real-world program.
Letter grade only (A-F).
427./527. Human Factors (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 and two of the following: PSY 331, 332 or 333.
Systematic application of psychological principles to the design of person-machine systems. Emphasis in the laboratory on the development of skills required of human factors psychologists. These skills will include systems and analysis, cognitive task analysis, rapid prototyping and usability testing.
(Lecture 2 hrs, laboratory 3 hrs) Letter grade only (A-F).
433./533. Research in Cognition and Learning (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 and 331 or 332 or 333.
Research methods in cognition, learning, and perception. Laboratory includes experiments on selected topics.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)
436./536. Psychology of Mood (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 or consent of instructor.
Analyses of normal mood states, including survey of existing literature. Topics may include the relationship of mood to important antecedents and consequences such as sleep-wake cycles, exercise, nutrition, physical health, stress, and cognition.
Letter grade only (A-F).
438./538. Psycholinguistics (3)
Prerequisites: Psychology major, PSY 100, 301; six units of linguistics or upper division psychology.
Psychological and linguistic approaches to the study of language. Theory and research in the production and understanding of language, language acquisition, memory for language, and use of language in its social context.
Letter grade only (A-F).

441./541. Research in Physiological Psychology (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310 and one of the following: PSY 340, 341 or 342.
Research methods in psychobiology. Includes fundamentals of neuroanatomy, surgical procedures for stimulation, lesioning and recording, and pharmacological procedures used in neurophysiological research.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

444./544. Cognitive Neuroscience (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310, 332 and one of the following: PSY 340, 341 or 342.
Explores brain systems responsible for cognitive processes in normal humans, integrating theory from texts and current research from original sources.
Letter grade only (A-F).

453./553. Principles of Group Dynamics (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 351 or consent of instructor.
Behavior in groups with attention to such factors as leadership, groupthink, interaction and influence including organization, management, morale, and efficiency. Problems, techniques, and methods of investigation.
Letter grade only (A-F).

456./556. Research in Personality (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 310, 350, or consent of instructor.
Examination of common research methods, especially as they apply to particular theoretical personality paradigms.
Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

457. Psychology of Sexuality (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 351 or 356 or 370.
Survey of topics in human sexuality with emphasis on developmental psychology of sexuality; attitudes and feelings related to sexuality; sexual variations and deviations; and sexual dysfunction and sex therapy.
Letter grade only (A-F).

463. Social and Personality Development (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 361.
Development of social behavior and personality in children and adults. Coverage will include theoretical approaches and processes, as well as content areas including development of emotions, personality systems, aggression, morality, prosocial behavior, peer relations, and sex differences.
Letter grade only (A-F).

475./575. Clinical Interviewing (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 373.
Study and development of clinical techniques of observation and interview. Coverage includes detailed exposure to Client-Centered and Gestalt counseling methods. Emphasis on understanding theory and acquisition of basic skills.
Letter grade only (A-F).

477. Psychology of Addiction (3)
Prerequisites: Psychology major, PSY 100, 301; and six upper division units in psychology.
Investigation of theory and research on psychological causes and effects of addiction, including analyses of individual differences on major demographic variables of gender, age, and ethnicity.
Considerations of major approaches and methods to recovery from addictive behaviors.
Letter grade only (A-F).

490. Advanced Topics in Psychology (3)
Prerequisites: Psychology major, PSY 100, 301; and one 300-level course in the subject matter of the course.
Advanced study of selected topics in one basic area of psychology e.g., cognition and learning, emotion and motivation, physiological, social, personality or developmental.
May be repeated to a maximum of 8 units with different topics. Topics will be announced in the Schedule of Classes. Letter grade only (A-F).

490H. Special Topics — Honors (3)
Prerequisites: Psychology major, PSY 100, 301; consent of the Psychology Honors Program Advisory Committee.
Advanced study of selected topics in psychology.
Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

495. Psychology and the Law (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 370, and six upper division units in psychology.
Examines relationship between fields of psychology and law, including laws pertaining to psychologists and rights and ethical responsibilities of mental health providers. Topics include forensic psychology, trial consulting, and issues relating to the legal system.
Letter grade only (A-F).

496H. Research Preparation — Honors (3)
Prerequisites: Psychology major, PSY 100, 301; consent of the Psychology Honors Program Advisory Committee.
Development of a senior honors thesis proposal.
Letter grade only (A-F).

498H. Senior Thesis — Honors (3)
Prerequisites: Psychology major, PSY 100, 301; PSY 496H, 496H.
Final completion of an original research project with the product being both an oral and written presentation of the research.
Letter grade only (A-F).

499. Independent Study (1-3)
Prerequisites: Psychology major, PSY 100, 301; and consent of department.
Student will conduct independent laboratory or library research and write a report of the research.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

GRADUATE LEVEL

501J/401. History of Psychology (3)
Prerequisite: Six upper division units in psychology.
Historical background and development of psychology as a science. Contributions of major individuals and systems.
Letter grade only (A-F).
507.407. Introduction to Family Therapy (3)
Prerequisites: PSY 220, 373, 475 or consent of instructor.
Survey of the field of family therapy including origins of differences in family structure, historical development of family therapy theory and practice.
(Lecture/Discussion) Letter grade only (A-F).

511.411. Statistical Design and Analysis of Experiments (3)
Prerequisite: PSY 310 or consent of instructor.
Focuses on the logic, application, and interpretation of analysis of variance (ANOVA) models in addition to other statistical procedures. Various issues of research design and experimentation are also covered.
(Lecture 3 hours) Letter grade only (A-F).

512.412. Multivariate Statistical Analysis (3)
Prerequisite: PSY 310 or consent of instructor.
Covers logic, application, and limitations of multivariate (multiple independent and dependent variables) statistics. Topics include multivariate analysis of variance, single and multiple correlation/ regression, logistic regression, factor analysis, and path analysis.
(Lecture 3 hours) Letter grade only (A-F).

515.415. Test Construction Theory and Practice (3)
Prerequisites: PSY 310 and either PSY 314 or 315.
Consideration of problems in the construction of tests for personnel selection, educational screening, personality assessment, attitude estimating, and measurement of academic achievement. Practice in the development of tests.
(Lecture 2 hrs, laboratory 2 hrs) Letter grade only (A-F).

518.418. Computer Applications in Psychology (3)
Prerequisites: PSY 310 or equivalent or consent of instructor.
Foundations of computer technology and its application to psychology. Emphasis on real-time control by digital computers in psychological research and applications.
(Lecture 2 hrs, laboratory 3 hrs) Letter grade only (A-F).

523.423. Qualitative Methods and Analysis (3)
Prerequisite: Graduate Student Standing.
Overview of qualitative research methods and analysis. Students learn to conduct observations, focus groups and qualitative interviews. Inductive analysis techniques such as content analysis and narrative analysis. Application of those skills in a qualitative evaluation of a real world program.
Letter grade only (A-F).

527.427. Human Factors (3)
Prerequisites: PSY 310 and two of the following: PSY 331, 332 or 333.
Systematic application of psychological principles to the design of person-machine systems. Emphasis in the laboratory on the development of skills required of human factors psychologists. Those skills will include systems analysis, cognitive task analysis, rapid prototyping and usability testing.
(Lecture 2 hrs, laboratory 3 hours) Letter grade only (A-F).

533.433. Research in Cognition and Learning (3)
Prerequisites: PSY 220, 310, and 315 or 353 or 332.
Research methods in cognition, learning, and perception. Laboratory includes experiments on selected topics.
(Lecture 2 hrs, lab 3 hrs) Letter grade only (A-F).

536.436. Psychology of Mood (3)
Prerequisites: PSY 100, 220, 310, or consent of instructor.
Analysis of normal mood states, including survey of existing literature. Topics may include the relationship of mood to important antecedents and consequences such as sleep-wake cycles, exercise, nutrition, physical health, stress, and cognition.

538.438. Psycholinguistics (3)
Prerequisites: Six units of linguistics or upper division psychology. Psychological and linguistic approaches to study of language. Composition of human language with communication in lower animals. Language development, disorders, symbolism and universals.
(Lecture 3 hours) Letter grade only (A-F).

539. Language Acquisition (3)
Prerequisites: Six units of linguistics or upper division psychology, or consent of instructor.
Theory and research in acquisition of first and subsequent languages in children and adults. Psycholinguistic perspectives on phonological, syntactic, semantic, and pragmatic aspects of language. Interesting roles of cognitive processes, individual differences, social influences, and cultural context will be stressed.
Letter grade only (A-F). Same course as LING 539. Not open for credit to students with credit in LING 539. (Seminar)

541.441. Research in Physiological Psychology (3)
Prerequisites: PSY 220, 310, and 341.
Research methods in psychobiology. Includes fundamentals of neuroanatomy, surgical procedures for stimulation, lesioning and recording, pharmacological procedures used in neurophysiological research.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

544.444. Cognitive Neuroscience (3)
Prerequisites: PSY 332 and one of the following: PSY 340, 341, or 342.
Explores brain systems responsible for cognitive processes in normal humans, integrating theory from texts and current research from original sources.
Letter grade only (A-F).

553.453. Principles of Group Dynamics (3)
Prerequisites: PSY 210, 220, 351, or consent of instructor.
Behavior in groups with attention to such factors as leadership, fellowship, interaction and influence including organization, management, morale, and efficiency. Problems, techniques and methods of investigation.
(Lecture/Discussion) Letter grade only (A-F).

556.456. Research in Personality (3)
Prerequisites: PSY 100, 220, 310, 356, or consent of instructor.
Examination of common research methods, especially as they apply to particular theoretical personality paradigms.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

575.475. Clinical Interviewing (3)
Prerequisites: PSY 100, 220, 373.
Study and development of clinical techniques of observation and the interview. Coverage will include a detailed exposure to Client-Centered and Gestalt counseling methods. Emphasis will be on understanding theory and acquisition of basic skills.
Letter grade only (A-F).

581. Organizational Psychology (3)
Prerequisites: PSY 351 or 453/553.
Analysis of organizational behavior and practices from a systems point of view. Consideration of employee motivation, power, leadership, communication, decision-making, and organizational change. Research methods for studying organizations.
Letter grade only (A-F).
582. Research in Industrial and Organizational Psychology (3)
Prerequisites: PSY 220 and 310.
Research methods and problems in industrial psychology. Includes direct observational, psychophysical, regression, survey, experimental, and quasi-experimental methods.
(Lecture 2 hours, laboratory 3 hours) Letter grade only (A-F).

585. Prosemin in Personnel Psychology (3)
Prerequisites: PSY 314 or 315.
Advanced consideration of problems and procedures in personnel psychology. Emphasis on different fields and synthesis of major areas within this field.
Not open for credit to students with credit in PSY 566. Letter grade only (A-F).

589. Advanced Topics in Industrial and Organizational Psychology (1)
Prerequisites: Acceptance into the Master of Science in Industrial and Organizational Psychology or consent of instructor.
Advanced consideration of selected advanced topics in industrial/organizational psychology.
Not open for credit to students with credit in the same topic in 580. May be repeated to a maximum of six units with different topics in the same semester. Letter grade only (A-F).
A. Large Group Intervention

590. Advanced Topics in Psychology (1-3)
Prerequisites: Consent of instructor. Topics of current interest in psychology selected for intensive development.
May be repeated to a maximum of six units with different topics.
Topics will be announced in the Schedule of Classes. Letter grade only (A-F).

599. Independent Study (1-3)
Prerequisites: Consent of department.
Unclassified graduate student will conduct independent laboratory or library research and write a report of the research.
May be repeated for a maximum of 6 units. Letter grade only (A-F).

627. Human Factors’ Methods
Prerequisites: PSY 227 or consent of instructor.
An advanced graduate-level course on methods commonly used in the field of human factors. These methods include analytic techniques used during the design of human-machine systems (e.g., task analysis, simulation), techniques used to evaluate functioning systems (usability testing, critical incident surveys) and techniques used to measure human performance (e.g., workload, situation awareness).
Letter grade only (A-F).

631. Seminar in Perception and Physiological Psychology (3)
Prerequisites: PSY 331 or 340 or 341 or 342 or consent of instructor; consent of graduate advisor.
Critical examination of selected topics in perception, information processing, and neuropsychological correlates of behavior. Student emphasis on either perception or physiological psychology.
Letter grade only (A-F).

632. Seminar in Learning (3)
Prerequisites: PSY 333 or consent of instructor; consent of graduate advisor.
Advanced consideration of selected topics in learning.
Letter grade only (A-F).

633. Seminar in Perception and Attention (3)
Prerequisites: PSY 331 or 332 or consent of instructor; consent of graduate advisor.
Examination of methods, theories, and experimental evidence in selected topics from the areas of sensation, perception, and attention. Letter grade only (A-F).

634. Seminar in Cognition (3)
Prerequisites: PSY 332 or 333 or consent of instructor; consent of graduate advisor.
Examination of methods, theories, and experimental evidence in selected topics from the area of cognition.
Letter grade only (A-F).

637. Seminar in Emotion and Motivation (3)
Prerequisite: PSY 336 or consent of instructor; consent of graduate advisor.
Advanced consideration of selected topics in animal and human motivation and emotion.
Letter grade only (A-F).

651. Seminar in Social Psychology (3)
Prerequisites: PSY 351 or consent of instructor; consent of graduate advisor.
Critical examination of interpersonal relations, social influence, group membership, leadership, and intergroup relations.
Letter grade only (A-F).

656. Seminar in Personality (3)
Prerequisites: PSY 356 or consent of instructor; consent of graduate advisor.
Theories of personality structure, dynamics, and development. Critical examination of research deriving from different theoretical approaches.
Letter grade only (A-F).

661. Seminar in Developmental Psychology (3)
Prerequisites: PSY 361 or consent of instructor; consent of graduate advisor.
Consideration of theoretical and methodological issues in life-span developmental psychology. Critical examination of research on selected topics, including development of physiological function, intelligence, language, learning processes, sensory processes, perception, personality, and social behavior.
Letter grade only (A-F).

678. Seminar in Health and Behavior Intervention (3)
Prerequisites: PSY 310 or consent of instructor; consent of graduate advisor.
Overview of health psychology and health promotion field. Students learn background of psychology’s role in health professions, health behavior theory and health intervention design and evaluation. Analysis of individual, contextual, structural, and cultural factors impacting health and health intervention.
Letter grade only (A-F).

681. Seminar in Applications of Psychology to Industry (3)
Prerequisites: At least 12 units of graduate-level work within the MSO program including 511 or 512 and 522.
Psychological applications to current problems of industry. Development of thesis proposal and pretest of thesis research techniques required.
Letter grade only (A-F).
683. Issues Organizational Development (3)
Prerequisites: PSY 581.
Examination of theory, research, techniques, and practices in field of organizational development, professional practice of managing change in organizations. Techniques, such as team building, systems analysis, process consultation, large group interventions and survey feedback will be examined.
Letter grade only (A-F).

685. Issues in Training (3)
Prerequisites: PSY 332 or 333, and 505
Discusses theoretical and applied issues with the development of employee training programs. Topics include needs assessment, adult learning theory, training methods, training evaluation, and learning organizations. Experiential assignments reinforce course concepts.
Letter grade only (A-F).

688. Practicum in Industrial and Organizational Psychology (2)
Prerequisites: At least 12 units of graduate-level coursework within the MSIO program.
Practice of industrial psychology or human factors in various industrial settings. Individual research and consultation with industrial or governmental organizations.
Letter grade only (A-F).

690. Research Methods (3)
Prerequisites: PSY 411/511 or 412/512, and consent of graduate advisor.
Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisites: Consent of graduate advisor and department.
Theoretical and experimental problems in psychology requiring intensive analysis.
Letter grade only (A-F).

698. Thesis (1-6)
Prerequisites: Advancement to candidacy, consent of graduate advisor. MSIO students: PSY 681 as prerequisite or corequisite.
Planning, preparation, and completion of a thesis in psychology. Must be repeated for a total of 6 units of credit. Letter grade only (A-F).
GRADUATE CENTER FOR PUBLIC POLICY AND ADMINISTRATION
College of Health and Human Services

Director: David C. Powell
Center Office: Engineering Technology (ET), Room 235
Telephone: (562) 985-4178
Faculty: W. Frank Saber, Martha J. Deede, Edward Martin, William Moore, John W. Ostrowski, David C. Powell, Michelle A. Saint Germain
Department Coordinator: Robin Quirk
Distance Learning: Shawn Bauer
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Career Possibilities
Management Analyst • City Manager • Financial Analyst • Project Manager • Presidential Management Intern (PMI) • Non-Profit Management (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
Public administrators today are becoming increasingly aware of the fact that government is, indeed, the people’s business. They are challenged to be both effective and efficient. They believe that people tend to support what they help to create. Working with citizens, they have brought the practice of public management to its highest level without giving up the desire to constantly change and improve. This is the difference that today’s public servants are recognized and rewarded in personal and material ways, making the study of public policy and administration a highly desirable career option.

The Graduate Center for Public Policy and Administration offers the Master of Public Administration degree. Options in the degree program include Public Works Administration and Urban Affairs; and graduate certificate programs in Urban Executive Management, the Public Management Analyst, Employer-Employee Relations and Personnel Management, Public Sector Financial Management, and Transportation Policy and Planning. The Center’s graduate program is designed with a professional emphasis and a recognized need to provide course work that will increase the student’s competency in administrative processes and analysis. The Center’s curriculum also is designed to emphasize the student’s ability to apply new knowledge, skills, and leadership techniques to the solution of public problems.

Admission applications are encouraged from persons with successful government service who wish to pursue, part-time or full-time, a graduate program designed to prepare them for new opportunities in public service or to expand or extend their capabilities in a present position. The Center provides education in public policy and administration to professional persons in such fields as public works, social services, public health, community development, criminal justice, educational administration, recreation administration, finance, personnel, policy analysis, urban and regional planning, systems analysis and urban administration. The Center is accredited by the National Association of Schools of Public Affairs and Administration, Commission on Peer Review and Accreditation (NASPA, 1120 G Street, NW, Suite 730, Washington, DC 20005, phone: 202-668-8965).

A detailed summary of requirements, current course offerings and procedures for the Master of Public Administration degree program, the Options in Public Works Administration and in Urban Affairs, and the graduate certificate programs, are contained in student handbooks available from the Graduate Center for Public Policy and Administration and on its website at http://www.csulb.edu/gradmpa.

Admission Requirements
Faculty will consider each application to the MPA program, based upon the following criteria:
1. Minimum 3.0 Undergraduate GPA
2. Demonstrated competence in professional writing. A listing of ways you can demonstrate writing competence is available in the Center office (ET 235) or on the Center website: http://www.csulb.edu/colleges/chiw/departments/ppa/
3. Quality of professional experience as evaluated by Center faculty. This evaluation will be based on the applicant’s current job description, resume, any other materials submitted by the applicant, and the length of professional service.
4. Other evidence of applicant’s potential to undertake and successfully complete the MPA course of study; faculty may consider other evidence submitted by the applicant; for example, scores on optional standardized examinations such as the GRE, GMAT, LSAT, or other recognized standardized examinations.

Following admission to the University and acceptance to the Center, each student should meet with a faculty advisor. The faculty advisor will provide advice to the student on program course requirements and elective opportunities, and counsel the student in the chosen elective area.

A student whose overall grade point average is less than 3.0, but who presents acceptable evidence of professional potential shown through recent academic performance and experiential background, may be admitted by special action of the Center.

Advancement to Candidacy
1. Fulfillment of the Graduate Writing Assessment Requirement (GWAR)
2. Minimum GPA of 3.0 in all graduate work completed at this University, or transferred from other sources, to meet degree or program requirements.
3. Successful completion (grade of “B” or better) of six units in the MPA program.
4. A grade of "B" or better in all of the following undergraduate courses: microeconomics, basic statistics, American government, and writing or composition.

Transfer of Credit

Students who have completed a graduate certificate program in the Public Management Analyst, Employer-Employee Relations and Personnel Management, Public Sector Financial Management, or Transportation Policy and Planning, may transfer up to 15 units of credit earned in the certificate program to be applied to the Center's Master of Public Administration degree program. The student must apply to the Center for admission as a degree candidate.

Students who have completed the academic requirements for the Master of Public Administration degree, prior to applying for admission to a graduate certificate program in the Center, may apply up to 6 units of credit earned in the MPA program for the required or elective courses in a certificate program.

Master of Public Administration

(code PPA_MP01)

The Center offers an innovative professional graduate program of studies leading to the degree of Master of Public Administration. The 36-unit program is designed with a professional emphasis and a recognized need to provide students with increased competency and perspective of the analytical and administrative processes of government. The MPA degree is sufficiently flexible that students may select a program of elective courses oriented toward a generalist program of study, place emphasis on a specific specialization such as personnel or criminal justice administration, or permit a focus on a specific public program field such as criminal justice administration. In all cases, a common grounding in the core areas of public policy and administration is required; beyond this, considerable freedom of choice enables students to select subjects which fit their particular backgrounds or career objectives.

Admission Requirements

Faculty will consider each application to the MPA program, based upon the following criteria:
1. Minimum 3.0 Undergraduate GPA
2. Demonstrated competence in professional writing: A listing of ways you can demonstrate writing competence is available in the Center office (ET 235) or on the Center website: www.csulb.edu/colleges/chhs/departments/ppa/
3. Quality of professional experience as evaluated by Center faculty. This evaluation will be based on the applicant's current job description, resume, any other materials submitted by the applicant, and the length of professional service.
4. Other evidence of applicant's potential to undertake and successfully complete the MPA course of study: faculty may consider other evidence submitted by the applicant; for example, scores on optional standardized examinations such as the GRE, GMAT, LSAT, or other recognized standardized examinations.

Following admission to the University and acceptance to the Center, each student should meet with a faculty advisor.

The faculty advisor will provide advice to the student on program course requirements and elective opportunities, and counsel the student in the chosen elective area.

A student whose overall grade point average is less than 3.0, but who presents acceptable evidence of professional potential shown through recent academic performance and experiential background, may be admitted by special action of the Center.

Orientation Requirement

All students must attend a mandatory Center orientation within the first two semesters of acceptance into the MPA Program.

Advancement to Candidacy

1. Fulfillment of the Graduate Writing Assessment Requirement (GWAR)
2. Minimum GPA of 3.0 in all graduate work completed at this University, or transferred from other sources, to meet degree or program requirements.
3. Successful completion (Grade of B or better) of six units in the MPA program.
4. A grade of "B" or better in all of the following undergraduate courses: microeconomics, basic statistics, American government, and writing or composition.
5. Satisfactory completion of the orientation requirement.

Requirements

1. A minimum of 36 course units in graduate course work, with a minimum of 21 units of 500/600 level courses in public policy and administration.
2. Satisfactory completion of PPA 500, 555, 577, 660, 670, and 696.
3. Completion of an approved internship program (PPA 585) as required course work beyond the 36-unit minimum, or waiver of the internship requirement based on professional experience.
4. Additional elective course work in elective fields to meet the 36-unit minimum.
5. Successful completion of PPA 697 Directed Research and an approved Student Learning Portfolio.

University Courses Acceptable for the Master of Public Administration

A wide variety of graduate courses in other departments also are acceptable. Graduate course descriptions are found in the department listings in which they are offered. Consult with Center Faculty for more information.

Option in Urban Affairs

(code PPA_MP02)

The purpose of the Option in Urban Affairs in the Master of Public Administration degree is to provide students who have particular interest in urban problems and processes with the opportunity to expand their knowledge and awareness in the field. In this broadly based interdisciplinary program, students can develop an understanding of the systemic nature of the urban environment and the interrelatedness of many urban problems. This program is designed to provide urban managers with ideas and techniques for dealing with various urban situations. Emphasis is on state and local government issues and responses.

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Admission
The general standards for admission are identical to those for the Master of Public Administration degree program. An applicant must demonstrate a background of related undergraduate course work of twelve units, or significant management and/or staff experience in public administration.

Requirements
1. A minimum of 36 course units in graduate course work, with a minimum of 24 units of 500/600 level courses in public policy and administration;
2. Satisfactory completion of PPA 500, 555, 577, 610, 660, 670, and 696;
3. Completion of an approved internship program (PPA 685) as required course work beyond the 36-unit minimum, or waiver of the internship requirement based on professional experience;
4. Completion of 12 units of elective course work selected from: PPA 512, 517, 522, 523, 525, 535, 540, 546, 547, 548, 550, 567, 571, 575, 581, 590, CPJU 530, 504, 621; EDAD 541, 544; EDP 520, 536; GEOG 650, 660; HIST 673; POCS 640; REC 521, 571.
5. Successful completion of PPA 697 Directed Research and an approved Student Learning Portfolio.

Option in Public Works Administration (code PPA_MP03)
This Option is designed to provide advanced knowledge to practitioners and pre-career students in the growing field of public works management. Course work prepares students in general public administration and specialized public works management activities, including appropriate technical subjects such as air and water pollution, water supply, waste disposal and management, energy, housing, and transportation.

Admission
The general standards for admission are identical to those for the Master of Public Administration degree program. An applicant must demonstrate a background of related undergraduate course work of twelve units, or significant management and/or staff experience in public administration. For this degree option, the experiential background would be targeted to the public works and infrastructure sector.

Requirements
1. A minimum of 36 course units in graduate course work, with a minimum of 27 units of 500/600 level courses in public policy and administration;
2. Satisfactory completion of PPA 500, 554, 555, 577, 660, 670 and 596;
3. Completion of an approved internship program (PPA 685) as required course work beyond the 36-unit minimum, or waiver of the internship requirement based on professional experience;
4. Completion of 9 units of elective course work selected from: PPA 515, 522, 535, 540, 547, 560, 552, 560, 575, 590, CE 520.
5. Successful completion of PPA 697 or CE 697 Directed Research and an approved Student Learning Portfolio.

Graduate Certificate in Urban Executive Management (code PPA_CT01)
This program is designed to serve the post-graduate executive development needs of men and women aspiring to top level positions in city and county governments. The goal of this program is to provide urban executives with a comprehensive knowledge of strategic planning processes; dynamics of human relations; strategies for implementing policies; consensus building techniques; and economic and financial forces impacting on local governments.

Prerequisite
In addition to the general admission requirements, applicants for the graduate certificate in Urban Executive Management should have significant upper level management experience in Public Administration, and a minimum of 10 years of progressively responsible management experience in government.

Requirements
1. A minimum of 18 course units in graduate course work, including 3 required and 3 elective courses.
2. Satisfactory completion of PPA 542, 547, and 571;

Graduate Certificate in Public Management Analysis (code PPA_CT02)
This program is designed for men and women who work or desire to work in budgeting, policy formulation, financial management, or program evaluation offices of government agencies. The program prepares candidates with such skills as defining a problem; conducting cost benefit analysis; utilizing basic statistical techniques; conducting behavioral/political analysis; preparing and presenting reports; learning to blend qualitative, behavioral, and political skills necessary for success as an analyst in government.

Prerequisite
In addition to general admission requirements, students should be employed in public service or related activities, or have a goal of public service-related activities.

Requirements
1. A minimum of 18 course units in graduate course work, including 4 required and 2 elective courses.
2. Satisfactory completion of PPA 515, 517, 521, and 555;
3. Satisfactory completion of 2 elective courses selected from PPA 522, 523, 540, and 560.

Graduate Certificate in Public Sector Employer-Employee Relations and Personnel Management (code PPA_CT03)
This program is designed for public sector managers and those aspiring to enter public service who need the knowledge, skills, and abilities required to deal effectively with the critical area of public sector employee relations and personnel management. The primary goal is to provide the necessary training for public managers to effectively utilize human resources to their greatest potential in conjunction with the needs of the public organization.
Requirements
1. A minimum of 18 course units in graduate course work, including 3 required and 3 elective courses.
2. Satisfactory completion of PPA 555, 575, and 577.
3. Satisfactory completion of 3 elective courses selected from PPA 570, 571 and 581.

Graduate Certificate in Public Sector Financial Management (code PPA_CT04)

This Certificate Program is designed for public managers and others interested in obtaining an understanding of governmental financial management concepts, functions, techniques, and issues. The program is designed to familiarize students with financial management problems and the techniques available for solving them. An emphasis is placed on how to recognize, evaluate, and utilize financial information in decision-making.

Those most interested in pursuing the Certificate would likely fall into one of three categories. First, current private sector finance professionals who wish to develop an understanding of financial management concepts and practices within the public sector. Second, current public sector financial managers who wish to further develop expertise in public sector financial management. Finally, in-service public sector employees who wish to start a career in government finance and who may use the courses for the Certificate as a guide for their course work towards the Master of Public Administration degree.

Requirements
18 units: PPA 555, 590T, 560, 567; ACCT 610; IS 601. Note: Appropriate substitutes for the required courses may be allowed subject to permission of the Public Finance Specialization Faculty Advisor. Also, ACCT 610 and IS 601 have substantial prerequisites. Prospective students should refer to the University Catalog for details.

Graduate Certificate in Transportation Policy and Planning (code PPA_CT05)

The purpose of this certificate program is to provide instruction in the skills and knowledge appropriate to professional activity in transportation policy and planning for urban transportation. Key support areas include urban planning, policy analysis, environmental policy, intergovernmental policy, personnel policy, and grants administration.

Requirements
1. A minimum of 18 course units in graduate course work, including 2 required and 4 elective courses.
2. Satisfactory completion of PPA 522, and 550.
3. Satisfactory completion of 4 elective courses selected from PPA 835, 540, 575, 670; CE 520; ECON 690.

Courses (PPA)

560. Foundations of Public Policy and Administration (3)
Concepts of the discipline; fundamentals of public organization theory, policy formulation and analysis, and administrative and management processes; management in the public interest; and ethics in government.
Letter grade only (A-F).

512. Urban Executive Management (3)
Examines problems confronting today’s urban administrator and offers techniques for solving a variety of pressing problems. Subjects include managing in a local government setting issues such as public policy, planning, financial resources, personnel, and labor relations. Letter grade only (A-F).

514. Municipal Law for Administrators (3)
Examination of major laws and legal issues affecting local government. Basic powers of cities including regulatory (police) powers, corporate (service) powers, taxation and eminent domain. Letter grade only (A-F). Same course as PROF 514. Not open for credit to students with credit in PROF 514.

515. Administrative Report Writing (3)
Preparation of written documents required of public administrators. Letter grade only (A-F).

517. Analytical Skills Development (3)
Designed to develop or improve the skills needed to perform analytical work in the public sector. Emphasis is on the methods of analysis and evaluation used in public service organizations. Communication of results will also be covered. Letter grade only (A-F).

518. Microeconomics and Public Policy (3)
This course covers the key principles of microeconomics such as supply, demand, and market processes. Further, it provides extensive coverage of topics that concern public decision-making, such as public goods, externalities, welfare analysis, and cost-benefit analysis. Letter grade only (A-F).

521. Microcomputer Management for Public Administrators (3)
Focuses on the design, development, and management of microcomputer systems, and software applications in public organizations. Course elements: analysis of critical concepts and issues relating to management of computer systems, and hands-on computer laboratory experience for design, and use of applications. Letter grade only (A-F).

522. Automating Government Administration (3)
The use of computers to assist government management. Special emphasis on automation of services. Provides an introductory background in computers and their applications to government systems and files for non-computer specialists. Letter grade only (A-F).

523. Urban Information Systems for Public Management (3)
Overview of significant information technologies impacting government management: World-Wide Web and GIS. (Geographic Information Systems) Introduces students to the construction and use of Web pages. Includes an introduction to GIS in public organizations. Extensive use of computers.

524. GIS Management and Applications for Public Managers (3)
Introduces students to the management and applications of Geographic Information Systems (GIS) in the Public Sector. Covers the requirements for designing and managing GIS applications for solving public sector problems. Hands-on use of GIS and analysis of GIS cases. Letter grade only (A-F).

525. Non-Profit Management (3)
Examination of principal characteristics, scope, and functional management areas (e.g., governance, fund development, board development, volunteer and staff management, intersectoral relations; budgeting) in American nonprofit organizations, with particular attention to the important roles of nonprofits in the delivery of health and human services. Letter grade only (A-F).
533. Race, Inequality and Public Policy (3)
Examines the multiple sources of ethnic, racial, gender, and class inequalities in the United States and how public policies have attempted to address these issues.
Letter grade only (A-F).

535. Intergovernmental Relations (3)
Presents concepts and issues of U.S. intergovernmental relations. Topics include history of the field, intergovernmental finances, state and federal legislative processes, legislative advocacy, interorganizational management, and current issues.
Letter grade only (A-F). Same course as PROF 535. Not open for credit to students with credit in PROF 535.

540. Grants Administration and Management (3)
Study of the various types of financial and technical assistance to local public and quasi-public agencies: the strategies for locating and obtaining grant programs support; and the development of effective project systems for externally funded programs.
Letter grade only (A-F).

542. Emergency Planning and Management (3)
Planning and management processes and issues involved in large-scale emergencies; the nature of natural and technological risk and emergency; with attention to public sector roles in contingency planning and response.
Letter grade only (A-F). Same course as PROF 542. Not open for credit to students with credit in PROF 542.

546. The Urban Crisis and the Public Administrator (3)
A survey of the history of urbanization, the literature of urban power relations and decision-making, and the dynamics of race relations in the urban environment. Extensive interface with urban agency representatives will be a major focus of this course.
Letter grade only (A-F).

547. Local Government Economic Development Processes (3)
A detailed discussion of the nature, goals, and processes of locally based economic development programs. Definition of governmental incentives designed to maximize private investment. A thorough explanation of property related revenues from both the public and private perspectives.
Letter grade only (A-F).

548. Housing Problems and the Urban Administrator (3)
Overview of housing problems in contemporary urban society. This course will increase the public administrator’s awareness of the interrelationships between local government administration and housing problems, and facilitate the public administrator’s ability to deal with these problems.
Letter grade only (A-F).

550. Urban Transportation Policy and Planning (3)
Examines urban transportation activities and options for the future. Analyzes local, state, and federal policy. Los Angeles urban transportation development, transit proposals and new policies and activities.
Letter grade only (A-F).

554. Public Works Facilities and Urban Policy (3)
Provides a study of public infrastructure essential to urban communities. Special focus will be given to water, wastewater, transportation, solid waste, public facilities, and schools.
Letter grade only (A-F).

555. Government Budgeting and Finance (3)
Presents the major concepts and skills associated with budget preparation for all levels of government. Topics include: budget processes and format, basic principles of government accounting, revenue, and capital budgeting.
Letter grade only (A-F). Same course as PROF 555. Not open for credit to students with credit in PROF 555.

560. Public Financial Management (3)
Focuses on financial planning, implementation and management control, financial reporting, and financial analysis used in public service organizations.
Letter grade only (A-F).

567. Basic Governmental (Fund) Accounting (3)
Provides an introduction to the unique characteristics of governmental accounting. Fundamental aspects of recording and reporting of financial transactions in public service organizations are covered. The basics of governmental auditing and financial condition analysis are also covered.
Letter grade only (A-F).

570. Negotiating Dynamics: Strategies and Skills (3)
Examination of negotiating strategies and skills based on tested use of power and psychological principles in negotiations. Different strategies and skills examined for negotiating under varying levels of cooperation and conflict.
Letter grade only (A-F).

571. Leadership Skills and Strategies in the Public Sector (3)
Leaders in urban governments, community based and non-profit organizations are challenged to move their bureaucracies toward solutions to complex problems. Examines administrative leadership, current approaches to organizational excellence and their applicability in a variety of administrative settings.
Letter grade only (A-F).

575. Public Sector Employer-Employee Relations (3)
Analysis of prevailing practice and techniques of collective bargaining and its continuing impact on the economic, political and organization structure in the public sector.
Letter grade only (A-F).

577. Public Sector Human Resources Management (3)
The historical development of the civil service merit system; areas which affect the operations of a personnel system: analysis of the various components of a personnel system; impact of labor negotiations; role of the personnel system as a change agent.
Letter grade only (A-F). Same course as PROF 577. Not open for credit to students with credit in PROF 577.

581. Government/Community Relations (3)
Investigation of relationship between governments and community based organizations, with particular attention to strategies for diagnosing problems and opportunities and prescribing courses of action in areas of public policy where governments and nonprofits converge.
Letter grade only (A-F).

585. Public Policy and Administration Internship (3-12)
Prerequisite: Consent of the instructor. Provides exposure to and understanding of the governmental environment. Students seeking the MPA degree who do not have managerial experience in government are required to participate in the internship program.
May be repeated to a maximum of 12 units. Academic credit earned for the internship program is beyond the 30 units required for the MPA degree. Letter grade only (A-F).

590. Special Topics in Public Policy and Administration (3)
An investigation of a special problem as defined by the instructor that is of current interest to the field of public policy and administration.
May be repeated to a maximum of 9 units with different topics.
Letter grade only (A-F).
S. Small-Scale Survey Research for Public Administrators
T. State and Local Public Finance
597. Directed Studies (1-3)
Prerequisite: Consent of Instructor.
Independent study in public policy and administration.
Letter grade only (A-F).

610. Seminar in Urban Affairs (3)
An interdisciplinary course which will give students an opportunity
to develop expanded awareness of the interrelationships between
various urban problems in the urban systemic environment.
Letter grade only (A-F).

660. Seminar in Organization Theory and Behavior (3)
Examination of theories of organizations and behavior of
members therein. Among the subtopics: generalist management,
bureaucracy, organization structures and design, systems theory,
motivation, leadership, decision-making, group and team
dynamics, power and conflict, culture, organization change and
development.
Letter grade only (A-F).

670. Policy Issue Analysis (3)
Introduces theories and approaches to policy analysis. The core
of the course follows the policy analysis cycle and includes:
problem recognition, problem definition, development of alternative
solutions, analysis of alternatives, selection of policy options,
policy implementation and evaluation.
Letter grade only (A-F).

696. Research Methods in Public Administration (3)
Covers the techniques of public sector research. Topics include
research design, survey research, and statistical analysis. Note:
It is suggested that students take PPA 656 early in their MPA
program. Letter grade only (A-F).

697. Directed Research (3)
Prerequisites: Advancement to candidacy, completion of required
MPA courses, consent of instructor.
Required capstone project. Individual research of a public issue,
Supervision of a full-time faculty member required. Three (3) units
required for graduation.
May be repeated to a maximum of 6 units in different semesters.
Letter grade only (A-F).
RECREATION AND LEISURE STUDIES
College of Health and Human Services

Department Chair: Maridith Jannessen
Department Office: Health and Human Services (HHS) 2 - 116
Telephone: (662) 988-4071

Faculty: Katherine James, Maridith Jannessen, Marilyn A. Jensen (Emeritus), Carolin Lusty, Susan Milthie, Kenneth Silverberg
Department Coordinator: Susan McNamara
Graduate Advisor: Carolin Lusty

Career Possibilities
Recreation Leader • Recreation Therapist • Senior Center Director • Recreation Supervisor • Camp Director • Recreation Facility or Club Manager • Park Ranger • Travel Agent • Sporting Goods Sales Representative • Hotel or Resort Manager • Municipal Supervisor • Employee Services Specialist • Social Director • Travel Guide • Volunteer Services Manager • Park Naturalist • Intramural Director • City Manager • Community Services Director (For more information, see www.careers.csulb.edu.)

Introduction
The experience of leisure is a basic facet of life. It is an elemental experience, essential to the total well-being of every person; it is a reflection and expression of the cultural values of a society; it is an important treatment modality. Leisure and recreation services are also essential for healthy communities in terms of social climate, environmental quality, and economic stability. The provision of recreation services is one of the largest industries in the world, whether measured in dollars spent, persons served, hours of time devoted, or resources used. The study of leisure and recreation is a broad discipline, combining aspects of diverse fields of study and professional practice.

The Department of Recreation and Leisure Studies exists to promote a broader and deeper understanding of the role of leisure and recreation in the lives of all people and to enhance the quality of experiences available to each person. This purpose is expressed in the mission and vision of the Department of Recreation and Leisure Studies. The mission is Engagement, Participation and Leadership. The Department's vision is: To engage students in learning through quality instruction and collaborative communication; To foster student success in academic and professional leadership; To provide opportunities for faculty to be industry leaders through scholarly activity and service; To advance a dynamic curriculum that meets the needs and trends of the profession; To be recognized as a program of study that is recognized for producing outstanding recreational professionals; and, To develop partnerships among faculty, alumni, and the community that provide the foundation for advancing the knowledge of the profession.

The Department is accredited by the Accreditation Council of the National Recreation and Park Association and American Association for Leisure and Recreation (National Recreation and Park Association, Council on Accreditation, 22377 Belmont Ridge Road, Ashburn, VA 20148; phone: 703-858-0784).

Students desiring information on undergraduate or graduate degrees or certificate programs in Therapeutic Recreation, Administration of Campus Recreation and Student Service Programs, Management of Nonprofit and Volunteer Services, Administration of Outdoor Recreation Resources, and Administration of Travel and Tourism should contact the department office for referral to one of the faculty advisors.

Undergraduate Programs

Bachelor of Arts in Recreation (code REC_BA1) (120 units)

Academic Program
The curriculum is designed to prepare men and women for positions of supervision and administration in public recreation and parks, therapeutic recreation, outdoor education, voluntary youth and adult services, camp administration, special event planning and management, travel and tourism, commercial recreation, and armed forces recreation.

The curriculum includes courses selected to provide an understanding of human development, service management, and a variety of specialty areas within leisure service professions.

Departmental Policies
Each major student must maintain a cumulative 2.0 GPA on all units attempted and achieve a "C" or better in each course of the Recreation major to progress in the sequence of study. Students earning less than a "C" grade in a course required in the major must repeat that course.

Students wishing to substitute courses or deviate in any way from the Department requirements must submit a letter of request to the Department faculty. No more than six units of Recreation-prefix courses may be taken by contract. The Internship is "Letter grade only (A-F)." The Internship is taken the last semester before graduation. No other courses may be taken concurrently with the Internship.

Requirements

Lower Division: REC 141, 225
Upper Division: REC 325, 341, 351, 421, 423, 425, 427, 431, 450, 498

Additional Courses: Each major student is required to complete courses in the following groups: REC 100 or 300; Choose one from the following: HDEV 307, 357, or PSY 370; Choose 15 units from the following: REC 321, 322, 324, 337, 340, 371, 428, 430, 433, 451, 452, 454, 457, 465, 467, 468, 469, 470, 490, 499. Choose 3 units from collaborative fields with advisor approval, such as CAFF, CDFS, CRIM, EDP, EDS, FCSE, FMD, FSCI, FFHB, KIN, NUTR, SW.
Minor in Recreation (code REC_UM01)

A minimum of 21 units approved by the departmental minor advisor which must include: REC 141, 225, 321, 340L, 351 and two of the following: REC 220, 322, 324, 337, 371, 428, 430, 431, 433, 462, 473, or 490 with consent of the advisor.

Certificate Programs

The certificate programs offered by the Department of Recreation and Leisure Studies are available to both undergraduate and graduate students, as well as students who already possess a baccalaureate degree and are enrolled in a certificate program, unless otherwise noted. Students pursuing an approved degree at CSULB may complete the certificate programs concurrently with their degree or subsequent to their degree by enrolling as a certificate student. Courses taken to meet the requirements of a certificate may also be used, where appropriate, to meet the General Education requirements or degree requirements of cooperating departments. Extension and/or transfer credit may comprise no more than one-fourth of the course work used to meet baccalaureate certificate requirements. Students wishing to pursue a certificate should contact the department to schedule a meeting with the certificate advisor.

Certificate in Therapeutic Recreation (code REC_CT01)

Therapeutic recreation has been identified as one of the fastest growing fields of employment. Recreational therapists work in clinical and community settings using recreation as a tool to assist post-injury rehabilitation and to improve quality of life for people with disabilities. State and National Certification in therapeutic recreation is often required for employment in this field; the curriculum of this certificate program prepares students for the California Board of Recreation and Park Certification exam and for the National Council for Therapeutic Recreation Certification exam. A baccalaureate degree, which may be awarded concurrently, is required for completion of this certificate program.

Core requirements: REC 351, 451, 452, 454, 458, 498 and six units of advisor approved Recreation courses.

Additional courses: 18 to 19 units, which must be taken with approval from the certificate advisor. This includes: an anatomy/physiology course (3-4 units); abnormal psychology (3 units); a human growth and development across the lifespan course (3 units); and upper division support courses (9 units) from any of the following areas: sociology, psychology, educational psychology, health sciences, adapted physical education, anthropology, biology, communication studies, family and consumer sciences, gerontology, human development, kinesiology/physical education, social work, and special education.

Certificate in Administration of Campus Recreation and Student Service Programs (code REC_CT05)

Campus Recreation and Student Services is a growing field in elementary, secondary and higher education, as it relates to the co-curricular programs offered in support of the educational program, both in public and private institutions.

The Certificate enhances professional development in Student Services such as Student Activities, Student Leadership Development, Residential Life, Student Community Service Volunteer Programs, and Intramurals and Recreational Sports; and Campus Services such as Conferences, Scheduling, Event Planning, and Alumni Relations. For those looking to be Certified Recreation Sports Specialist through NIRSA the courses will prepare them for the certification examination.

Twenty-four (24) units of core requirements including: REC 321, 322, 324, 325, 421, 427, 485; and one (3 unit) evaluation course: REC 441 or equivalent. The remaining six (6) units are electives which must be taken with approval of the advisor of the certificate program. These may include: REC, KIN, HDEV, or HRM courses.

Certificate in Management of Nonprofit and Volunteer Services (code REC_CT02)

Nonprofit organizations require trained professionals to meet the demanding need of managing effective organizations and programs. This certificate program prepares students for employment in nonprofit organizations and volunteer services.

Core requirements: REC 355, 421, 425, 427/527, 429/528, 438.

Additional courses: 6 units of elective courses addressing youth development, communication skills, marketing, evaluation, or working with diverse populations which must be taken with approval of the advisor of the certificate program.

Certificate in Administration of Outdoor Recreation Resources (code REC_CT03)

Outdoor recreation includes both the provision of recreation programs in the outdoors and the management of the parks and public lands that serve as the settings for these recreation experiences. Recreation program management and land management are distinct fields that must work cooperatively. This certificate program prepares students for careers in these interrelated fields.

The curriculum includes courses selected to provide an understanding of outdoor recreation behavior, outdoor education, resource management policies, and an introductory understanding of natural science.

Core requirements: REC 427, 430, 431; REC 357 or SCED 401; REC 433, 435, or 499.

Additional courses: 9 units of elective courses from biology, geology, or geography which must be taken with approval of the advisor of the certificate program.

Certificate in Administration of Travel and Tourism (code REC_CT04)

Travel and tourism is a very large and growing field in which there are usually many opportunities for well-trained individuals. This certificate program provides instruction in the history and theoretical bases of tourism, including its economics, psychology, and sociology as well as the political and legal aspects. The fundamentals of business, food and food service technology, the performing arts, and resource management are themes throughout the program.
Core requirements: REC 462, 468; REC 485 or 498; FCS 270, GEOG 352.

Additional courses: 6 units of upper division courses listed in the University Catalog under the Regional category in the Department of Geography or 6 units of a foreign language; plus 3 additional upper division units selected in consultation with the advisor of the certificate program.

Graduate Programs

Master of Science in Recreation Administration (code REC_MS81)

The Department of Recreation and Leisure Studies offers a program of graduate studies leading to the Master of Science degree in Recreation Administration. The program helps prepare professional personnel who are competent managers of private and public agencies and programs, who can conduct research and evaluation of recreation services, and who can contribute to the development of a professional philosophy of leisure. Usually fine opportunities exist in Long Beach and Southern California for interaction with recreation agencies of all kinds.

Admission

Students seeking admission to the Department of Recreation and Leisure Studies Graduate Program should have an undergraduate degree and a desire for graduate study. Applicants must apply for admission to the Recreation and Leisure Studies Department in addition to being admitted by Enrollment Services/Admissions.

The following items must be submitted:

1. Applicants must meet the criteria for acceptance by the University as a graduate student as outlined in the CSULB Catalog.
2. Every applicant (new or continuing) must apply by submitting a Graduate/Post-Baccalaureate Admission Application to the Office of Admissions and Records, to obtain admission to the University with graduate standing. Applications are available online at the CSU Mentor website.
3. Every applicant must also apply to the Department of Recreation and Leisure Studies, by sending the following to the Graduate Coordinator in the Department of Recreation and Leisure Studies:
   A. Two copies of the CSULB Graduate/Post-Baccalaureate Admissions Application. The original must be sent to Enrollment Services/Admissions and a copy must be sent to the Department of Recreation and Leisure Studies.
   B. Official transcripts of all undergraduate course work, including work done at all community colleges attended. Each applicant must request that official transcripts be sent to both the Graduate Advisor in the Department of Recreation and Leisure Studies and Enrollment Services.
   C. A current resume and a letter of intent that includes a summary of the applicant's reasons for wanting to pursue a master's degree in Recreation Administration. Both documents must be sent to the Department of Recreation and Leisure Studies Graduate Advisor.

D. Three letters of recommendation from persons able to testify to the applicant's academic ability, preferably from former professors. These letters must be sent to the Department of Recreation and Leisure Studies Graduate Advisor.
E. Official test scores on the Graduate Record Exam (GRE) General test. While no specific cut off scores are required on either the verbal or the quantitative section, applicants must score a "4" or higher on the analytic writing section of the GRE.

Admitted graduate students must contact the Department of Recreation and Leisure Studies Graduate Coordinator for advisement early in their first semester of enrollment in order to develop an approved program of study.

Prerequisites

Graduate students must complete the following prerequisites before advancing to candidacy:

1. A bachelor's degree with a major in recreation; or
2. A bachelor's degree with a minimum of 24 units of upper division courses comparable to those required in the undergraduate recreation major at this University. (Students deficient in undergraduate preparation must take courses approved by the department Graduate Coordinator to remove these deficiencies.)
3. Any deficiencies will be determined by the department graduate coordinator review of the student's transcript records, and consultation with the student's faculty advisor and the student.

Advancement to Candidacy

The following are required for student to advance to candidacy:

1. Enrollment in the summer or spring session in which advancement takes place.
2. Completion of the general University requirements for advancement to candidacy, as specified in this bulletin.
3. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
4. Satisfactory completion of REC 521, 571, 591, 595, 696 with a minimum grade of "B" in each of the courses.
5. After consultation with the student's graduate advisor, determination of whether the student will complete the thesis option or the project option.
6. Approval of the student's graduate program by the Department Graduate Advisor and Associate Dean for the College of Health and Human Services.

Requirements

The core requirements for a master's degree in recreation administration are REC 521, 571, 591, 595, and 696. In addition to the core classes, students are required to complete elective units and thesis or project units. The thesis option requires 5 units of REC 599 and four units of REC 698, plus 12 units of electives. The project option requires three units of REC 698 plus 20 units of electives. Elective courses are to be selected after consultation with the graduate advisor. A maximum of 6 units may be taken from 300 or 400-level courses in Recreation. Up to six units of graduate work may be transferred from another accredited university or another department.

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in CSULB. Transfer credit must be a "B" or better. All students must earn a grade of "A" or "B" for each required course. Students may not have more than 6 units of "C" grades apply toward the major's degree. Advancement to candidacy is necessary before REC 697 or 698 can be taken.

**Thesis or Project**

The thesis or project is a supervised experience in the application of theory and analytical tools to an issue in recreation and leisure services.

The thesis research should prepare students for further graduate work or research in the field. The project should provide an experience that is directly applicable to an occupation in recreation and leisure services. The thesis is a written product of the student's systematic study of a significant problem. It clearly identifies the problem, states the major assumptions, reconciles the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation.

The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. The thesis is supervised by a committee of three, including the Thesis Chair. The student must be a full-time tenure-track or tenured faculty member in the Recreation and Leisure Studies Department, and two other faculty members.

The project is a significant undertaking appropriate to the professional field. It evidences originality and independent thinking, appropriate form and organization, and a rationale. It is described and summarized in a written report that includes the project's significance, a review of the literature, objectives, methodology, and a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. The coursework is supervised by a committee of three, including the Project Chair, who must be a full-time tenure-track or tenured faculty member in the Recreation and Leisure Studies Department, and two other faculty members.

**Graduate Certificate in Leisure Counseling (code REC_CT06)**

Leisure and recreation experiences add quality and enjoyment to life. When individuals experience significant changes in their lives, often through retirement or disabling injuries, they may need counseling to identify and develop leisure skills appropriate to their new life situations. This certificate program prepares students to use counseling techniques to enhance quality of life through leisure.

Admission/Prerequisites: Persons holding a bachelor’s or master’s degree in Recreation or Therapeutic Recreation or a related allied health field (e.g., Occupational Therapy, Music Therapy, Gerontology, Psychology, Adapted Physical Education, Counseling); two years verified experience in counseling approved by the program advisor.

Core requirements: REC 454/554, 563, 560; EDP 532, 533.

Additional courses: 3 units which must be taken with approval of the advisor of the certificate program.

**Courses (REC)**

**LOWER DIVISION**

100J/300. Orientation to the Recreation Major (3)
Orientation to the professional roles in the field of leisure services; the philosophy, academic requirements, standards, documentation, procedures of followed in the Department of Recreation and Leisure Studies; and computer applications required of all majors.
Letter grade only (A-F). (Discussion, 3 hours) Not open to students with credit in REC 300.

141. Introduction to Leisure Services (3)
Prerequisite/Concurrent: One GE Foundation course.
Survey of public, private and non-profit agencies engaged in leisure services. Examination of populations served. Organizing principles of the recreation and leisure services profession.
Not open to students who have completed REC 241.

220. Universality of Play (3)
Prerequisites: Completion of GE Foundation requirements.
Exploration of ethnic origins of play from international perspective. Influence of play on creativity, drive and self image of society.
(Theory and practicum)

225. Programming Recreation Activities (3)
Methods and materials used in planning and leading organized recreation programs in public and private agencies. Analysis of inter-personal and group skills necessary for effective leadership of recreation activities. Special emphasis on supervised programming field experiences.
Letter grade only (A-F).

**UPPER DIVISION**

300J/100. Orientation to the Recreation Major (3)
Orientation to the professional roles in the field of leisure services; the philosophy, academic requirements, standards, documentation, procedures of followed in the Department of Recreation and Leisure Studies; and computer applications required of all majors.
Letter grade only (A-F). (Discussion, 3 hours) Not open to students with credit in REC 100.

321. Leadership in Recreation and Leisure Studies (3)
Theory and application of leadership as it pertains to leisure service agencies. In depth analysis of interaction between leadership styles and group dynamics. Facilitation techniques necessary for effective group leadership.

322. Recreational Sports Supervision (3)
Organization and supervision of recreational sports for community-wide participation.
(Lecture 2 hours, Activity 2 hours.)

324. Campus Recreation Services (3)
Prerequisites: Junior Standing.
Principles and practices in provision of recreation services on college, secondary, and elementary school campuses.

325. Advanced Program and Event Management (3)
Prerequisites: REC 100 or 300, 141, 225, or consent of instructor.
Advanced management of recreation and leisure service programs with special emphasis on event planning and promotion. Includes interpretation of needs assessments and market analysis, analysis and selection of prospective client bases; program design, marketing, promotion, implementation and evaluation.
Letter grade only (A-F).
337. Environmental and Cultural Interpretation (3)
Principles and practices of environmental and cultural interpretation of outdoor recreation resources, including tours, brochures, slide shows and exhibits.
(Lecture/Activity, 3 hours.)

340. Leisure in Contemporary Society (3)
Prerequisites: Completion of G.E. Foundations requirements; one or more explorations courses; upper division standing.
Enhancing the understanding of leisure in contemporary society by examining the roles of technology, values, and social structure. Focus on the social and technological context of leisure and comparing and contrasting them with individual and social influences such as race/ethnicity, gender, sexuality, age, economic status, ability and religion.

341. Evaluation and Research in Leisure Services (3)
Prerequisites: REC 100 or 300, REC 141; 225, or consent of instructor.
Foundations of current methods and practices of evaluation and research about leisure and leisure services. Includes the critical need for evaluation and research in leisure services; research and evaluation concepts, types, and designs; sampling, and information/data collection, analysis, interpretation, and presentation.
Letter grade only (A-F).

351. Foundations of Therapeutic Recreation (3)
Prerequisites: REC 100 or 300, REC 141, 225, or consent of instructor.
Philosophical and historical foundations of therapeutic recreation and principles of planning, implementing and evaluating leisure services for individuals with disabilities.
(Lecture/Activity, 3 hours.)

371. Human Services Programming in Urban Areas (3)
Prerequisites: Completion of the G.E. Foundation requirements. Exploration of the complexity of social, political, and community issues of urban areas in relationship to the provision of recreation and human service needs. Examination of planning, development, and agency collaborations to ensure recreation services development meets community needs.

421. Supervisory and Administrative Practices (3)
Prerequisite: REC 100 or 300, 141, 225, or consent of instructor.
Concepts and techniques of supervision and administration in recreation agencies; emphasis on recruitment, assignment, evaluation and in-service training of recreation personnel.

423. Facility Design and Operation (3)
Prerequisite: REC 326 or consent of instructor.
Theories and practical experience in the design, development, operation, maintenance and administration of various recreational facilities.
Letter grade only (A-F).

425. Financing Leisure Services (3)
Prerequisites: REC 326 or consent of instructor.
Financing and budgeting in public and private sector leisure service agencies; management by objectives as related to fiscal elements.

427. Legal Aspects of Leisure Services (3)
Prerequisites: Upper Division Standing.
Political, policy making, and legal aspects underlying the establishment, operation, and termination of public and private leisure services.
Letter grade only (A-F). (Discussion, 3 hours.)

428. Principles of Nonprofit/Volunteer Management (3)
Survey of the principles of nonprofit and volunteer services management. The philosophical, historical and social context of the volunteer movement; funding, governance, organization and management of nonprofit organizations and volunteer services; trends and issues; professional development and employment.

430. Recreation in the Ocean Environment (3)
Prerequisites: REC 100 or 300, 141, or consent of instructor.
Study of the skills and techniques of administration of one ocean-oriented recreational resource, including management and trip planning. Will be supplemented with a week long field trip to Santa Barbara Island.
Course fee may be required.

431. Recreation Resource Management (3)
Prerequisites: REC 100 or 300, 141, or consent of instructor.
Review of the techniques of recreation resource management; the role of citizens; government and private agencies in acquisition and development of these resources; development of resource management policies.

433. Management of Organized Camps (3)
Prerequisites: REC 351. 452 or consent of instructor.
Comprehensive therapeutic recreation program development, operation, and management. Advanced principles, issues, and trends in therapeutic recreation.
Letter grade only (A-F).

452. Therapeutic Recreation Treatment/Program Planning (3)
Prerequisites: REC 351 or consent of instructor.
Development of individual treatment/program plans in therapeutic recreation. Includes assessment of leisure and social functioning, problem identification, development of measurable objectives, determination of program content and methods, documentation, and evaluation of the client’s progress.
(Lecture 2 hours, Activity 1 hour.)

454./554. Counseling Techniques in Therapeutic Recreation (3)
Prerequisites: REC 351, 452 or consent of instructor.
Letter grade only (A-F).

457./557. Legislative Action in Therapeutic Recreation (3)
Prerequisites: REC 351 or consent of instructor.
Overview of Therapeutic Recreation as related to national healthcare issues. Includes examination of various legislative issues/hills introduced in congress with a direct effect on the profession. The non-required course includes travel to a midyear conference in Washington D.C.
Letter grade only (A-F).

458./558. Therapeutic Recreation: Facilitating Leisure and Wellness (3)
Prerequisites: REC 100 or 300, 141, 225, or consent of the instructor.
Overview of role of leisure within wellness programs as it relates to therapeutic recreation. Examination of facilitation techniques as a major component of wellness program programs. Includes assessment of leisure functioning; development and implementation of therapeutic recreation programs and services.
Letter grade only (A-F).
462. Travel, Tourism, and Resort Recreation Management (3)
Prerequisites: REC 325 or consent of instructor.
Current procedures and processes in managing travel, tourism and resort recreation organizations. Discussion includes the organization and management of human resources in the marketing of travel, tourism and resort recreation enterprises.

465. Convention and Conference Planning (3)
Prerequisites: REC 325 or consent of instructor.
Organizing, planning, and managing conferences and conventions. Analysis of site and facility selection, scheduling, theme development, programming, affiliated events, exhibit management, registration and overall services.
Letter grade only (A-F).

468. Tourism Planning and Development (3)
Prerequisites: REC 462 or consent of instructor.
Analysis of elements which are included in a community development plan; assessment of the touristic potential of a region or site; enabling legislation, organization, and administration of a tourism development plan; identification of sources of funding and support.
Letter grade only (A-F). Same course as GERN 469. Not open for credit to students with credit in GERN 469 or SW 469.

473./573. Aging and Leisure (3)
Prerequisites: REC 325 or consent of instructor.
Theories, concepts and influences on satisfaction with retirement focusing on physical, psychological, social and economic variables. Overview of the continuum of services, emphasizing leisure services available to older people.

480. Philosophy of Recreation and Leisure (3)
Prerequisites: REC 325, 341, one of the following: REC 421, 425, 427. Open to recreation majors only.
Exploration of the philosophical and ethical basis for current practices in recreation and leisure service organizations.
(Discussion, 3 hours.)

485. Field Work (3)
Prerequisites: Consent of the instructor.
Supervised experience in recreation leadership, supervision or administration approved by faculty advisor or consent of the instructor.
Credit/No credit grading only. May be repeated to a maximum of 6 units in different semesters.

490. Special Studies in Recreation (1-3)
Identification and critical analysis of current problems in selected areas of recreation.
Topics to be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics in different semesters.

498. Internship in Leisure Services (6-9)
Prerequisites: Completion of all major requirements; 1000 hours of verified paid or volunteer leadership experience approved by faculty advisor; or 500 hours of experience and training in both English and a second language consistent with the CSULB Language Proficiency Requirements; and consent of the internship coordinator.
This internship will involve 400 hours of supervised experience in an approved leisure service agency jointly supervised by university and agency personnel.
Letter grade only (A-F). (Field work)

499. Independent Study (1-3)
Prerequisites: Consent of dept. and approval by department chairperson.
Individual projects in areas of special interest. Independent study under the direct supervision of a faculty member.
May be repeated to a maximum of 6 units in different semesters with consent of instructor.

GRADUATE LEVEL

521. Recreation Administration (3)
Organizational theory; planning, staffing and budgeting of recreation programs in governmental and voluntary agencies.
Letter grade only (A-F).

527./427. Legal Aspects of Leisure Services (3)
Prerequisites: Upper Division Standing.
Political, policy making, and legal aspects underlying the establishment, operation, and termination of public and private leisure services.
Letter grade only (A-F). (Discussion, 3 hours.)

528./428. Principles of NonprofitVolunteer Management (3)
Survey of the principles of nonprofit and volunteer services management. The philosophical, historical and social context of the volunteer movement; funding, governance, organization and management of nonprofit organizations and volunteer services; trends and issues; professional development and employment.

554./454. Counseling Techniques in Therapeutic Recreation (3)
Prerequisites: REC 351, 452 or consent of instructor.
Letter grade only (A-F).

557./457. Legislative Action in Therapeutic Recreation (3)
Prerequisites: REC 351 or consent of instructor.
Overview of Therapeutic Recreation as related to national healthcare issues. Includes examination of various legislative issues/fact legislation introduced in congress with a direct effect on the profession. This non-required course includes travel to a mid-year conference in Washington D.C.
Letter grade only (A-F).

558./458 Therapeutic Recreation: Facilitating Leisure and Wellness (3)
Prerequisites: REC 100 or 300: 141, 225, or consent of the instructor.
Overview of role of leisure within wellness programs as it relates to therapeutic recreation. Examination of facilitation techniques as a major component of wellness promotion programs. Includes assessment of leisure functioning; development and implementation of therapeutic recreation programs and services.
Letter grade only (A-F).

569./469. Disability, Culture and Society: Issues and Intervention (3)
Prerequisite: Senior or graduate status.
Disability as a social construct. Examines policies and practices to understand the experience of disability, includes historical and contemporary perspectives as well as future issues. Emphasis on social and clinical intervention methods as well as programs and resources.
Letter grade only (A-F). Same course as GERN 569 and SW 569. Not open for credit to students with credit in GERN 569.
571. Philosophy, Issues and Trends (3)
Exploration of the current philosophy, trends and issues in the field of recreation.
Letter grade only (A-F).

573.A473. Aging and Leisure (3)
Prerequisites: REC 525 or consent of instructor
Theories, concepts and influences on satisfaction with retirement focusing on leisure-related issues. Overview of the continuum of services, emphasizing leisure services available to older people.

590. Special Topics in Recreation (1-3)
Prerequisite: Consent of instructor.
In-depth investigation of topics of current interest and concern to students experienced in recreation.
May be repeated to a maximum of 6 units with different topics.
Topics to be announced in the Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 3 units with different topics in different semesters.

591. Research Proposal Writing (1)
Prerequisite: REC 696.
Concerned with variations in research design and methodology. Completion of a thesis proposal is a requirement.
Letter grade only (A-F).

595. Management Studies (3)
Administrative studies and surveys, procedures for conducting appraisals of recreation programs and facilities.
Letter grade only (A-F).

599. Independent Study (1-3)
Prerequisites: Consent of Graduate Advisor and Department Chair.
Independent research under the supervision of a Recreation and Leisure Faculty member.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

696. Research Methodology (3)
Research methodology in recreation. To be completed within the first 12 units of the 500/600 series of courses.
Letter grade only (A-F).

697. Directed Studies (1-3)
Prerequisites: REC 696, advancement to candidacy.
Independent investigation of field research problems in recreation.
Letter grade only (A-F). May be repeated to a maximum of 3 units in different semesters.

698. Thesis (1-4)
Prerequisites: REC 591, 696, advancement to candidacy.
Planning, preparation and completion of an approved thesis.
May be repeated to a maximum of 4 units in different semesters.
RELIGIOUS STUDIES
College of Liberal Arts

Department Chair: Carlos R. Piar
Department Office: McIntosh Humanities Building (MHB), Room 619
Telephone: (562) 985-5341
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Faculty: Jeffrey L. Broughton, Yecheil Shalom Goldberg, Edward J. Hughes, F. Stanley Jones, Peter M. Lowentheil, Sophia Pandya, Carlos R. Piar, David Jabb-Stewart, Jon R. Stone

Career Possibilities
Religious Education Director • Clergy • Community Organization Worker • College/University Faculty • Social Worker • Hospice Director • Researcher • Writer • Volunteer Services Director • Foreign Service Worker • Counselor
(Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.) Various entry-level trainee positions in business and industry are available for graduates regardless of academic discipline.

Undergraduate Programs

Bachelor of Arts in Religious Studies
(code R/STBA01) (120 units)

The department of Religious Studies educates students in the scholarly interpretation of religion. Students develop a critical and appreciative understanding of the complexity of religions and their importance in human life; the academic study of religion thus makes an invaluable contribution to historical and cultural literacy. The elements and forms of religion – texts and institutions, stories, moral values, symbols, ritual, doctrine, etc. – are studied in their cultural and historical contexts with sensitivity and intellectual precision. Students are introduced to the major religious traditions and to religion in the modern world. Religious Studies is interdisciplinary, relating world religions and the religious dimension of human life to both the humanities and the social sciences. Students interested in a degree program should apply to the department chair.

Requirements
A minimum of 36 units is required, distributed in the following way:
Core Courses: R/ST 401 and 6 units from the following: R/ST 100, 102, and 103.
Area Courses: 21 units selected from at least two of the following three categories.
2. Eastern Religions: R/ST 3411, 344, 351, 352, 353, 400*, 499*
3. Religion in the Contemporary World: R/ST 202, 240, 301, 302, 308, 3621, 3831, 3911, 425, 4721, 4821, 485, 490*, 499*

Minor in Religious Studies
(code R/STUM01)
The Minor in Religious Studies is available to any non-Religious Studies major.
A minimum of 21 units in religious studies courses or courses from other departments approved by the Religious Studies Department.
Lower Division: A minimum of six units selected from R/ST 100, 102, 103, 200, 210, or the equivalent.
Upper Division: A minimum of 15 units including three units from each of the following groups:
A. Western Religious Thought: R/ST 311, 312, 314, 315, 322, 331, 375, 376, 425, 4711, 4721;
B. Asian Religious Thought: R/ST 3411, 344, 351, 3531.
Remaining units are to be selected from R/ST courses and the following electives: R/ST 335, AFRS 353, CWL 342, HIST 333, PHIL 330.

Certificate in Religious Studies
(code R/STCT01)
Requirements
A bachelor’s degree with a major in a traditional discipline.
* A minimum of 30 units in religious studies or courses offered in other departments approved by the Religious Studies Department.
Lower Division: A minimum of nine units selected from R/ST 100, 102, 103, 202 or 210.
Upper Division: A minimum of 21 units including one course from each of the following: (a) Biblical Studies: R/ST 311, 312, 322, 375, 376; (b) Western Religious Thought: R/ST 314, 315, 3311, 4711, 4721, 485; (c) Asian Religious Thought: R/ST 3411, 344, 351, 3531. A minimum of twelve upper division units from the preceding courses and the following electives: R/ST 321, 353, 3621, 3831, 420, 490, 496; AFRS 335; ASAM 380; AFRS 353; CWL 342; HIST 333; PHIL 330.

Graduate Programs

Master of Arts in Religious Studies
(code R/STMA01)
Admission
The primary criteria for admission are the same as those for University graduate admission. In addition, the applicant must have a Bachelor’s degree in Religious Studies, or its equivalent, and have achieved a 3.0 GPA in the last 60

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semester units attempted. Two letters of recommendation from instructors in the undergraduate major should be included.

Program Requirements
1. Minimum total units: 30 units of upper division or graduate study, at least 24 of which must be in Religious Studies. The remaining six may be in Religious Studies or another field of study related to Religious Studies and/or the candidate's educational interests. Each student's program must include a minimum of 18 units of graduate courses, at least six of which must be in the 600 series (not including RST 597 and 698). All students must satisfactorily complete RST 501.

2. A thesis or comprehensive examination.

3. Proficiency in a modern research language (German or French) demonstrated by passing either the ETS examination with a score of 400 or better or two years of course work with an average grade of "B" or better. Proficiency in an appropriate ancient research language (Sanskrit, Biblical Aramaic, Hebrew, Chinese, etc.) replaces this requirement for students concentrating in Ancient Mediterranean and Near Eastern Religions or in Buddhist Studies. Exceptions to this requirement, especially for students not planning to pursue further graduate degrees, can be made at the discretion of the Graduate Studies Committee.

4. Advancement to Candidacy is a statement of how the student plans to complete all courses and requirements for the degree, including establishing a date and a committee for the thesis or comprehensive examination. It is best done as early as possible. Students taking a comprehensive examination must be advanced to candidacy no later than the semester preceding the examination. Students writing a thesis are advanced to candidacy at the time they begin their thesis work.

Courses (RST)

LOWER DIVISION

100. Introduction to Religion (3)
Prerequisite or corequisite: One GE Foundation course.
Origin, nature, and function of religion in the individual and culture with emphasis upon and reference to outstanding personalities, sacred writings, and basic features of the world's leading religions.

102. Introduction to World Religions I (Early and Western) (3)
Prerequisite/corequisite: One GE Foundation course.
A survey of representative figures, themes, the schools in Western religious thought, including Judaism, Christianity, and Islam.

103. Introduction to World Religions II (Eastern) (3)
Prerequisite/corequisite: One GE Foundation course.
Survey of Indian, Chinese, and Japanese religious thought. Emphasis will be on original texts in translations.

202. Religion and Society (3)
Prerequisite: Completion of GE Foundation requirements.
Religious and secular views of the relation of persons and society with emphasis upon contemporary problems of personal and social ethics, political responsibility and social structure.

210. Introduction to the Bible (3)
Prerequisite: Completion of GE Foundation requirements.
Overview of Sacred texts of Jews and Christians. Inspiration, Creation, Salvation, and other Biblical themes will be discussed, as well as key persons and events, such as Moses, Jesus, etc.
Not available to students with credit in RST 101A.

230. Hell and Heaven in Judaism (3)
Explores the history and development of notions of the afterlife in Judaism. Jewish ideas about the experience of death and the fate of the dead will be studied in the context of broader reflection on ancient Mesopotamian, Egyptian, and Greek views of the afterlife, as well as brief considerations of Christian and Muslim views of the afterlife.

240. Love, Life, and the World (3)
Prerequisite: Completion of GE foundation requirements.
Examines love in life and the world. Students will explore the philosophical, religious, mystical, psychological, social, and natural historical dimensions of love and complete both practical and research projects that will lead them to a fuller understanding of a loving life.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

301. Approaching Religion (3)
Prerequisite: Completion of GE Foundation requirements.
Study of methods of religious studies, including the comparative and phenomenological study of religions, textual criticism, exegesis, research methods and techniques.

302. Religious and Social Ethical Dimensions of American Diversity (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
Examines religious and social ethical aspects of the adaptation of various American subcultures to the polyglot mainstream of American culture.

308. Comparative Religious Ethics (3)
Prerequisite: Completion of GE Foundation requirements.
Introduction to study of ethics within global perspective while introducing world religions. Major ethical questions and modes of moral reasoning in different religious traditions will be considered while focusing on why ordinary people do good and evil actions.

311. Religion and Literature in the Old Testament (3)
Prerequisite: Completion of the GE foundation requirement, completion of one or more Explorations courses, and upper division standing.
The Old Testament as a religious, historical, and literary document with emphasis on the religion and culture of the early Hebrews. Selected books will be read each term. Emphasis will be on Genesis, Exodus, the early prophets, Isaiah. The period of the conquest and the divided monarchies will be studied.

312. Intertestamental Literature, Palestine History, and Early Christianity (Dead Sea Scrolls) (3)
Prerequisite: Completion of GE Foundation requirements, one or more Explorations courses, and upper division standing.
Historical development of Jewish religion and culture in the Second Temple period from the rise of the Maccabees to the beginnings of Christianity. Emphasis on the rise of the Jewish State, the coming of the Romans and the beginnings of primitive Christianity (Essenesm, Phariseesm and Sadduceesm).
314. Jewish Religion (3)
From the end of the Second Temple period to the close of the Middle Ages. Development from Hellenistic Judaism to Rabbinic Judaism to philosophical theology will be gone into in some detail. Readings from Saadya, Halevi and Maimonides, etc.

315. Modern Jewish Thought (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Development of Jewish thought from enlightenment and emancipation from ghettoes, through attempts at assimilation, the Holocaust and birth of the Jewish State. Development of conservative, reform and orthodoxy Judaism.

317. Jewish Mysticism (3)
Prerequisite: Completion of GE foundation requirements.
Explores some major trends and themes of the Jewish mystical and esoteric tradition. Included are various forms of Kabalah and Hasidism, meditation and mysticism, explanations of and responses to evil, the nature of God and the relationship between human beings and the divine being; poodle dynamics, and the power of ritual.

318. Biblical Hebrew I (3)
Biblical Hebrew I imports the basic grammatical inflections, conjugations, and structures of elementary biblical Hebrew and starts the student on the path of mastering the specific vocabulary of biblical Hebrew. Introduces history and particularity of this language as well as standard reference tools employed in reading biblical Hebrew.

319. Biblical Hebrew II (3)
Prerequisite: JBST 318.
Biblical Hebrew II completes instruction in grammar of biblical Hebrew and introduces major syntactical constructions of this language. Increases student's biblical Hebrew vocabulary, helps skills in use of reference books for biblical Hebrew, and allows initial confrontation with selections from Hebrew Old Testament itself.

320A. Biblical Aramaic I (3)
Prerequisite: Completion of GE Foundation requirements.
Alphabet and grammar of Aramaic, the language of Jesus, will be taught. Cultural excursuses survey the history of the ancient international language Aramaic and its role in understanding Jesus and the Judaism of his time.
Not open for credit to students with credit in JBST 220A.

320B. Biblical Aramaic II (3)
Prerequisite: Completion of GE Foundation requirements.
Advanced grammar and readings in Aramaic, the language of Jesus and the International language of the Near East prior to the importation of Greek. Select cultural excursuses into the historical impact of Aramaic and special study of unpublished manuscripts.
Not open for credit to students with credit in JBST 220B.

322. New Testament and Earliest Christian Literature (3)
Prerequisite: Completion of GE Foundation requirements.
The emergent Christian community, seen through the missionary and pastoral letters, the synoptic gospels, the radical theologies of Paul and John and the dramatic visions of the Apocalypse.

331. Islamic Religion and Culture (3)
Prerequisite: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
The Koran, Muhammad and the rise of Islam as a cosmopolitan faith. The development of Muslim civilization, including literature, theology, philosophy and Sufism (mysticism).

337. Sufism (3)
Prerequisite: Completion of GE Foundation, one or more Explorations courses and upper-division standing.
Covers mainly Sufism and Shi‘ism and their intimate relationship. Examines contribution of some great Sufis and Shi‘ite thinkers to development of inner dimensions of Islam i.e. mysticism, asceticism, and spirituality.
Letter grade only (A-F).

338. Medieval Thought in Judaism, Christianity, and Islam (3)
Prerequisites: Completion of GE Foundation, one or more Explorations Courses and upper-division standing.
Human thought and history of ideas. Survey of history of medieval Jewish, Christian, and Islamic thought. Examines contribution of some great philosophers to development of medieval thought. Highly intellectual dealing mainly with abstract concepts of metaphysics, God, creation, and theory of knowledge.

341. Buddhism (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
The Buddha; early Buddhism; the great vehicles; and the vehicle of incantations. Transmission of Buddhism to China, Korea, Japan, Southeast Asia and Tibet. Emphasis on original texts in translations.

344. Religions of Japan (3)
Prerequisite: Completion of GE Foundation requirements.
Transmission of continental civilization to Japan; shinto, Buddhism and Tokugawa Neo-Confucianism; Geisha culture; and New Religions. Emphasis on original texts in translations.

351. Hinduism (3)
Prerequisite: Completion of GE Foundation requirements.
Introduction to the religious traditions of Hinduism. Emphasis on the historical and textural study of Hinduism through its various literatures (sacred, narrative, poetic, liturgical, and philosophical). Explores Vedic traditions of sacrifice, the speculative philosophy of the Upanishads, the religious epic and mythological literature, the main gods and goddesses, and the devotional poetry of the medieval poet-saints.

352. Religions of India (3)
Prerequisite: Completion of GE Foundation requirements.
A survey of Indian religions to the present. Emphasis will be on the ways that religions of historic India have developed and interacted.

353. Religions of Southeast Asia (3)
Prerequisites: Completion of the GE foundation requirement, completion of one or more Exploration courses, and upper division status.
Introduction to the religions of Southeast Asia. Ancient religion, historical transmission, and adoption of Hindu and Buddhist traditions, and recent developments in modern Southeast Asia will be discussed. Emphasis on the religious culture of mainland Southeast Asia.

362. Religion and Psychology (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examines the religious and psychological interpretation of both individual and community religious activity and experience.
(Lecture 3 hours)

358. Women and Islam in Global Perspective (3)
Prerequisite: Completion of GE Foundation requirements.
This course introduces a wide range of issues regarding women and Islam, and examines some of the diverse religious, social, political, and economic roles that Muslim women have played from the early days of Islam to the present period.
Letter grade only (A-F).
375. The Historical Jesus (3)
Prerequisites: Completion of GE Foundation requirements.
The historical reconstruction of the life and thought of the "Founder" of
Christianity in his contemporary cultural and political environment.
Standard historical and religious-historical methods are introduced
and applied to the preserved sources.

376i. Christian Origins (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Consideration of two factions in the early Church in Palestine in
the first century, one following the "Apostle to the Gentiles," and
the other following the family line of Jesus. Readings from primary
sources: Paul's Letters, Eusebius, and apocryphal literature.

383i. Christianity and Global Ethics (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Examine interaction of Christianity with secular socio-economic
issues related to globalization and response of Christianity to
such ethical issues as poverty, population growth, consumerism,
environmental degradation, war, and genocide.

591i. Religion and Science (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Examines the occasionally harmonious, often acrimonious,
relationship between religion and science. Examines the
fundamental insights and claims of both religion and science,
moving beyond the frequently sharp prejudices they initially bring
to their study to a more reasoned understanding of each alone
and in relation to each other.

401i/501. Methods and Theories in the Study of
Religion (3)
Prerequisite: Consent of Instructor.
Analyzes and compares methodologies used in the discipline of
Religious Studies. Selected methods include: social scientific;
phenomenological; structuralism; textual criticism; exegesis;
personalistic and normative approaches to the study of religion.
Critical hermeneutics such as Mannel, Ferrer, Freudian, and
Post-Modern are also explored.
Letter grade only (A-F).

425. Religion and Modern Literature (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
The role of the writer and poet in the secular modern world as
religious thinker. The themes of alienation, anguish, obscenity, evil,
hope, despair, mystic vision, and salvation will be among those
studied.

458i/558. Women, Religion, and the Developing World
(3)
Prerequisites: Upper division or graduate standing.
This course looks at the causes and implications of globalization,
the impact of globalization on women in the developed world,
and the multi-faceted role that religion and religious constructions of
gender play in this picture.

460i/560. Jewish Christianity (3)
Prerequisite: Consent of Instructor.
History and literature of ancient Jewish Christianity in its
relationship to Gentile Christianity and Judaism, from the relatives
of Jesus through the fourth century.
Letter grade only (A-F).

467i. Religion in Latin America and the Caribbean (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Exploration of role of religion in the history, politics, and culture of
Latin America. Surveys pre-Columbian religion, the impact of the
Encounter, the growth of Protestantism, Liberation Theology, and
the coming of age of Afro-Cuban and Afro-Brazilian religions.
Letter grade only (A-F).

471i. Early Christianity and Society (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Development of Christianity from the New Testament period to
Medieval times with emphasis on the growth of doctrine and
catholic institutions in ancient and medieval society.

472i. Formation of Modern Christianity (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Restructuring and renewal of Christianity, from the Reformation
through the dawn of modern consciousness to the challenge of
20th century secular life.

482i. American Religious Experience (3)
Prerequisites: Completion of GE Foundation requirements, one or
more Explorations courses, and upper-division standing.
Survey of major themes in the unique American religious
experience. Topics include the adaptation of European
Christianity to novel American circumstances, the proliferation of
denominations and the revised religious response to a dynamic
American society.

485. Contemporary Religious Thought (3)
Prerequisite: Completion of GE Foundation requirements.
Critical examination of current trends in religious understanding
against a backdrop of rapid social change. New movements and
issues on the religious scene considered and a variety of
authors representing both East and West will be studied in order
to reveal the emerging patterns of religious thought.

490. Special Topics in Religious Studies (1-3)
Topics of current interest in religious studies selected for intensive
development. A maximum of nine units with different topics may
be used in the major. Topics will be announced in the Schedule of
Courses.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Directed studies to permit individual students to pursue topics of
special research interest.
May be repeated to a maximum of 6 units.

GRADUATE LEVEL

501i/401. Methods/Theories of Religion (3)
Prerequisite: Consent of Instructor.
Analyzes and compares methodologies used in the discipline of
Religious Studies. Selected methods include: social scientific;
phenomenology; structuralism; textual criticism and exegesis;
personalistic and normative approaches to the study of religion.
Critical hermeneutics such as Mannel, Ferrer, Freudian, and
Post-Modern are also explored.

550. Islam in the Contemporary World (3)
This course examines key thinkers, movements and issues
arising in the global Muslim community in the modern period. It
covers early reform movements, the Iranian Revolution, Islamic
revivalism, religious violence, Progressive Islam, gender justice,
Islam and sexuality, and Muslims in America.
Letter grade only (A-F).

558i/458. Women, Religion, and the Developing World
(3)
Prerequisites: Upper division or graduate standing.
This course looks at the causes and implications of globalization,
the impact of globalization on women in the developing world,
and the multi-faceted role that religion and religious constructions of
gender play in this picture.
560. Jewish Christianity (3)
Prerequisite: Consent of instructor.
History and literature of ancient Jewish Christianity in its relationship to Gentile Christianity and Judaism, from the relatives of Jesus through the fourth century. Letter grade only (A-F).

590. Special Topics in Religious Studies (3)
Prerequisite: Consent of instructor.
Topics of current interest in Religious Studies selected by the faculty for intensive development. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

595. Advanced Study (3)
Prerequisite: Consent of instructor.
Study under the supervision of a faculty member. Student must fulfill requirements of a selected upper division course plus additional work appropriate to graduate study as determined by the instructor of the course. May be repeated to a maximum of 9 units with different topics in the same semester. Letter grade only (A-F).

599. Graduate Tutorial (1-3)
Prerequisite: Consent of instructor.
Supervised and independent study. May be repeated to a maximum of 6 units with different topics in the same semester. Letter grade only (A-F).

684. Seminar in Religion in the Contemporary World (3)
Prerequisite: Consent of Instructor
Advanced inquiry into aspects of religion in the contemporary World, including its ethical, cultural, historical or theoretical dimensions. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

624. Seminar in Ancient Mediterranean Religion (3)
Prerequisite: Consent of instructor.
Advanced inquiry into the religions of the Ancient Mediterranean. Letter grade only (A-F). May be repeated to a maximum of 9 units with different topics.

646. Seminar in Buddhist Studies (3)
Prerequisite: Consent of Instructor.
Advanced inquiry into topics in Buddhist Studies. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

690. Special Topics in Religious Studies (3)
Prerequisite: Consent of instructor.
Topics of current interest in Religious Studies selected by the faculty for intensive development. May be repeated to a maximum of 9 units with different topics. Letter grade only (A-F).

697. Directed Research (1-3)
Prerequisite: Consent of instructor.
Directed Studies to permit individual students to pursue topics of special research interest. May be repeated to a maximum of 9 units in the same semester. Letter grade only (A-F).

698. Thesis (1-6)
Prerequisites: Advancement to candidacy, consent of advisor.
Planning, preparation and completion of thesis for the master's degree. May be repeated to a maximum of 6 units.
ROMANCE, GERMAN, RUSSIAN LANGUAGES AND LITERATURES
College of Liberal Arts

Department Chair: Lisa Vollendorf
Office: Academic Services, Room 309
Telephone: (652) 965-4318

Program Directors:
Clorinda Donato, Stephen Fleck (French)
Carlo Chiarensa (Italian)
Jeffrey High (German)
Harold K. Schetski (Russian)
Lorraine Gassor (Spanish)

Coordinators:
RGRLL Language: Markus Muller
Single Subject for L.O.T.E.: Jean-Jacques Jura

FRENCH - Faculty: Laura Cato Mijares, Clorinda Donato, Stephen Fleck, Asama Naya Guerra, Naple Redoane

GERMAN - Faculty: Jeffrey High, Nele Hormer-Lamer

ITALIAN - Faculty: Carlo Chiarensa, Clorinda Donato, Teresa Flore, Enrico Velto

RUSSIAN - Faculty: Harold K. Schetski

SPANISH - Faculty: Maria Cama, Alcides del Campo, Binnie Gassor, Claire L. Merlina, Leslie Nord, Alexander Rainof, Lisa Vollendorf

Administrative Analyst/Specialist: Cindy McCarty

Students desiring information should contact the department office for referral to one of the faculty advisors. Credentials provided by Undergraduate Advisor, Graduate Advisor.

Teaching Assistantships in French, German, and Spanish
Teaching Assistantships and Research Assistantships are available for qualified students in the French, German and Spanish M.A. Program. New applicants for Teaching Assistantships must have been accepted into the M.A. Program and must present a letter of application, a resume, a complete set of transcripts, and three confidential letters of recommendation to be sent to the Graduate Coordinator. Teaching Assistants are required to enroll in RGR 524 (Second Language Acquisition) and RGR 601 (Teaching Methodology). Students are also encouraged to apply for financial assistance under the Federal Work-Study Program.

Scholarships Available in the Romance, German, Russian Languages and Literatures Department

The Department awards over $20,000 of scholarships annually. Please contact the department office for application deadlines or visit our website at csulb.edu/colleges/cladepartments/RGRLL.

Department Courses (RGR)

UPPER DIVISION

314L. Introduction to Contemporary Europe (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper-division standing.
Interdisciplinary introduction to contemporary European cultures and related issues through a combination of travel and study. Introduces to some principles and methods useful for analyzing cultures and their own interactions with them.
Not open for credit to students with credit in CHIS 314L.

315L. Contemporary European Society (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper-division standing.
Interdisciplinary approach to understanding cultural and political developments in contemporary European societies. Although study of history serves as foundation of course, perspectives and methodologies of several other social science disciplines are important component.
Not open for credit to students with credit in CHIS 315L.

346L. The European Cinema of Communism, Fascism and Resistance (3)
Prerequisites: Completion of the G.E. Foundation, one or more Exploration courses, and upper-division standing.
Focuses on European cinema of twentieth century as manifestation of totalitarian and ideological movements preceding, in between, and following the two world wars. Ensuing and ongoing resistance movements also examined.
Same course as HIST 346L and FEAS 346L. Not open for credit to students with credit in HIST 346L and FEAS 346L.

424L. Second Language Acquisition (3)
Study of history of second language learning/teaching. Overview of current research in second language acquisition, with special focus on implications for teaching foreign languages. Evaluation and development of methods, materials, and tests.
Letter grade only (A-F). Not open for credit to students with credit in SPAN 424L. Undergraduates register in RGR 424L; graduate register in RGR 524L (Seminar).

425L. Romance Linguistics (3)
Prerequisites: RGR 424L, or SPAN 423L, or ITAL 414L or consent of program director.
Comparative description of the constitution and development of Romance languages in all their aspects: phonological, lexical and morphosyntactical. Taught in English.

450L. Consequences of the Encounter: The Americas, Europe, and Africa (3)
Prerequisites: Completion of the G.E. Foundation requirement, completion of one or more Exploration courses and upper-division standing.
Consequences of Columbian encounter in Africa, Europe and the Americas (1492-present), Art, Literature, and Social Sciences meshed in order to examine encounter’s role in obliteration, suppression and creation of culture in Old and New Worlds.
Same course as CHIS 450L. Not open for credit to students with credit in CHIS 450L.

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470/470. New Technologies in the Learning of Languages Other Than English (3)
Prerequisites: Advanced communication skills in the target language; basic knowledge of computer use (L1 110 or IS 115 competency for K-12 students); EDCS 200H, or concurrent enrollment, or consent of instructor.
Introduction to computer-based technology in the teaching of Languages Other Than English (LOTLE). Production of basic multimedia presentations and web pages using authoring software. Logical, ethical, privacy and security issues. Meets the Single Subject Credential Program Level I computer proficiency requirement for LOTLE students.
Letter grade only (A-F).

GRADUATE LEVEL

524/424. Second Language Acquisition (3)
Study of the history of second language learning/teaching. Overview of current research in second language acquisition, with emphasis on its implications for teaching foreign languages. Evaluation and development of methods, materials, and tests.
Letter grade only (A-F). Undergraduate register in RGR 424; graduate register in RGR 524. (Seminar)

525/425. Romance Linguistics (3)
Prerequisites: FREN 424, or SPAN 423, or ITAL 414 or consent of program director.
Comparative description of the constitution and development of Romance languages in all their aspects: phonetical, lexical and morpho-phonological. Taught in English.

570/470. New Technologies in the Learning of Languages Other Than English (3)
Prerequisites: (A) Advanced communication skills in the target language. (B) Basic knowledge of computer use (L1/TEC 110 or IS 115 competency for K-12 students). (C) EDCS 200H, or concurrent enrollment, or consent of instructor.
Introduction to computer-based technology in the teaching of Languages Other Than English (LOTLE). Production of basic multimedia presentations and web pages using authoring software. Logical, ethical, privacy and security issues. Meets the Single Subject Credential Program Level I computer proficiency requirement for LOTLE students.
Letter grade only (A-F).

601. Teaching Methodology (3)
Prerequisite: Graduate level or consent of Program Director in French, German, or Spanish and instructor.
Course should be taken prior to teaching in RGR/LL Department. With consent of program director and language coordinator, course can be taken either concurrently or at upper division level.

ARABIC COURSES (ARAB)

101A. Standard Modern Arabic I (4)
Prerequisite or Corequisite: Any Foundation course.
Beginning the study of Arabic. For non-native speakers only. Not open to heritage speakers or native speakers of Arabic. Check for code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

101B. Standard Modern Arabic II (4)
Prerequisite or Corequisite: Any Foundation course, ARAB 101A, or consent of instructor.
Continuation of work in 101A in speaking, pronunciation, comprehension and writing.
For non-native speakers only. Not open to heritage speakers or native speakers of Arabic. Check for code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

201A. Intermediate Arabic (4)
Prerequisite: ARAB 101B or three years of high school Arabic.
Continued work in speaking, pronunciation, comprehension, reading, writing.
For non-native speakers only. Heritage speakers of Arabic need to consult with the Chair or the Language Coordinator for placement in the appropriate course.

201B. Intermediate Arabic (4)
Prerequisite: ARAB 201A or four years of high school Arabic.
Continued work in speaking, pronunciation, comprehension, reading, writing, and culture.
For non-native speakers only. Heritage speakers of Arabic need to consult with the Chair or the Language Coordinator for placement in the appropriate course.

250. Arabic for Arabic Speakers (6)
Designed for heritage speakers of Arabic able to function in informal settings. Builds upon knowledge and skills speakers of Arabic bring to the classroom. Provides language-use experiences that move students beyond the informal situations in which they normally operate.
For heritage speakers of Arabic. If students are non-heritage speakers of Arabic who already completed four semesters of Arabic, they are urged to consult with the chair, the language coordinator or the instructor.

HEBREW COURSES (HEBW)

101A. Modern Hebrew (4)
Prerequisite or Corequisite: Any Foundation course.
Designed for non-native speakers. Introduces students to Hebrew and enables them to comprehend and communicate in Hebrew at increasingly complex levels.
For non-native speakers only. Not open to heritage speakers or native speakers of Hebrew. Check for code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

101B. Modern Hebrew (4)
Prerequisite: HEBW 101A. Corequisite: Any Foundation course.
Continuation of HEBW 101A. Introduces students to Hebrew and enables them to comprehend and communicate in Hebrew at increasingly complex levels.
For non-native speakers only. Not open to heritage speakers or native speakers of Hebrew. Check for code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

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Portuguese Courses (PORT)

101A. Fundamentals of Portuguese (4)
Prerequisite or Corequisite: Any Foundation course.
Fundamental skills of speaking, comprehending, reading and writing. Continuation of PORT 101A.
For non-native speakers only. Not open to heritage speakers or native speakers of Portuguese. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

101B. Fundamentals of Portuguese (4)
Prerequisite or Corequisite: Any Foundation course. Prerequisite: PORT 101A or two years of high school Portuguese or equivalent.
Continuation of PORT 101A. Fundamental skills of speaking, comprehending, reading and writing.
For non-native speakers only. Not open to heritage speakers or native speakers of Portuguese. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

201A. Intermediate Portuguese (4)
Prerequisite or Corequisite: At least one Foundation course.
Prerequisite: PORT 101B or three years of high school PORT or equivalent and completion of the Foundation requirement or entering competency equivalent to PORT 101B.
Continuous work in speaking, pronunciation, comprehension and writing.
For non-native speakers only. Not open to heritage speakers or native speakers of Portuguese. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

201B. Intermediate Portuguese (4)
Prerequisite or Corequisite: At least one Foundation course.
Prerequisites: PORT 201A or four years of high school PORT or equivalent, and completion of the Foundation requirement or entering competency equivalent to PORT 201A.
For those continuing the study of Portuguese or who have had four years of high school Portuguese or equivalent.
For non-native speakers only. Not open to heritage speakers or native speakers of Portuguese. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.
Minor in Russian (code RGR_UM04)

The purpose of the Minor in Russian is to provide interested students with a focused program of study in the Russian language. The Minor in Russian is available to any non-Russian major.

Requirements
Pre-requisites: RUS 101A (4), 101B (4)
Twenty additional units, of which 12 units must be taken in upper-division course work: RUS 201A (4), 201B (4), 310 (3), 312 (3), 314 (3), 410 (3), 428 (3).

Certificate in Russian and East European Studies (code RGR_CT01)

Russian and East European Studies has an interdisciplinary program which offers students interested in this field the opportunity to pursue courses leading to a Certificate in Russian and East European Studies. Courses used to meet this certificate requirement may be counted also, where applicable toward the General Education requirement and the major and teaching minor requirements of the cooperating departments.

Interdisciplinary in concept, it covers the fields of anthropology, economics, geography, history, comparative literature, philosophy, political science and the Russian language.

The expanding opportunities for careers and public service in foreign policy administration, international organization, international business activities, education and information for intercultural understanding, make it useful to organize studies leading to a certificate in this important part of the world. This will tend to enhance the student's possibility for a career in business, education or government, and broaden the scope of understanding.

Interested students should apply to the Director, Russian and East European Studies, Dr. Harold Schefski, Department of Romance, German and Russian.

Requirements
1. A bachelor's degree with an approved major. Certificate can also be earned concurrently with the bachelor's degree.
2. A minimum of two semesters of a Slavic language;
3. 18 units selected from four of the disciplines listed below chosen in consultation with the student's advisor. No more than six units of any one discipline shall apply toward the certificate: ANTH 490*, CWL 349, 449; ECON 400*, GEOG 318, HIST 341A, 341B, 490*, 495*, PHIL 490*, POSC 306, 497; RUSI 101A-B, 201A, 201B, 310, 312, 314, 410, 428; RGR 346I.
4. Cumulative GPA of 2.75 in all courses in the student's approved certificate program.

*May be taken only when course work is applicable to Russian and East European Studies. Consultation with director of the center is required.

Courses (RUSS)

LOWER DIVISION

101A. Fundamentals of Russian (4)
Prerequisites/Corequisites: Any Foundation course.
Beginning the study of Russian. Practice in grammar, reading, pronunciation, writing and conversation.
For non-native speakers only, and is not open to heritage speakers or native speakers of Russian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

101B. Fundamentals of Russian (4)
Prerequisites or Corequisites: Any Foundation course. Russian 101A or equivalent.
Beginning study of Russian. Continuation of Russian 101A. Practice in grammar, reading, pronunciation, writing and conversation.
For non-native speakers only. Not open to heritage speakers or native speakers of Russian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

201A. Intermediate Russian (4)
Prerequisites: RUS 101B and completion of GE Foundation requirements (or entering competency equivalent to RUS 101B and completion or concurrent enrollment in at least one Foundation course)
Oral and written practice with grammar review.
For non-native speakers only, and is not open to heritage speakers or native speakers of Russian. Check for the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

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201B. Intermediate Russian (4)
Prerequisites: RUSS 210A and completion of GE Foundation requirements (or entering competency equivalent to RUSS 210A and completion or concurrent enrollment in at least one Foundation course).
Oral and written practice with grammar review. Continuation of Russian 210A.
For non-native speakers only, and is not open to heritage speakers or native speakers of Russian. Check with the code 138 (for non-native speakers) and 139 (for heritage speakers) in the Schedule of Classes.

UPPER DIVISION
General Education Category A must be completed prior to taking any upper division course except upper division language courses where students need formal prerequisites and/or competency equivalent for advanced study.

310. Russian Literature in English (3)
Prerequisites: Completion of GE Foundation requirements, and any course in literature or European history
Taught in English, this course examines the major themes of Russian life as seen through the literature of the nineteenth and twentieth centuries.

312. Advanced Russian (3)
Required background or experience. Ability to read general material in Russian and to translate non-technical material into the language. Extensive reading of Russian writings, review of grammatical principles, and a general consolidation of the four language skills: reading, oral comprehension, composition, and conversation.

314. Russian Conversation (3)
Prerequisite: Upper-division standing in Russian or consent of instructor.
Intended to meet specific, everyday situations and to provide help to those who intend to use Russian for travel, work, or classroom instruction.

399. Directed Studies in Russian Language (1-3)
Prerequisites: Consent of instructor. Independent study undertaken under the supervision of a faculty member.
A Directed Studies course designed to meet the individual needs of students. Letter grade only (A-F).

410L. Introduction to Russian Civilization (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examination of the characteristic features of Russian culture with special attention to the study of art, architecture, folklore, music, poetry and religion.

428. Russian Cinema (3)
Prerequisite: Upper division standing.
Focuses on the socio-political and aesthetic aspects of Russian Cinema, detailing the following periods: Soviet Silent Cinema, Stalinist Cinema, Cinema under the Thaw, Cinema under Brezhnev, and Contemporary Cinema.
Letter grade only (A-F). Same course as FEA 458. Not open for credit to students with credit in FEA 458.

499. Directed Studies in Russian (1-3)
Prerequisites: Senior standing, consent of instructor.
Readings in areas of mutual interest to student and instructor that are not a part of any regular course. Written report or project may be required.
SCIENCE EDUCATION
College of Natural Sciences and Mathematics

Department Chair: Laura Henriques
Department Office: Faculty Office (FO) 5, Room 118
Telephone/FAX: (562) 985-4901/857-7164
Website: www.cnsm.csulb.edu/dept/scied

Faculty: Alan Colburn, Susan Gomez-Zwipp, Laura Henriques, Thomas Kelly, Patrick F. Kenny, James Kiel, Catherine Martin-Durlop, William Straits

Advisors:
Single Subject Science Credential: James Kiel, David Nicklos
Graduate Advisor: Alan Colburn
Administrative Support Coordinator: vacant

Introduction

The Department of Science Education is strongly committed to the improvement of teaching and learning in science at all levels, Pre-Kindergarten through University. The activities of the department are highly diversified, ranging from its roots in teacher preparation through science education projects of national significance. Faculty of the Department of Science Education play an important role in preparing and credentialing elementary and secondary school teachers for science teaching. Significant emphasis is also placed on providing experienced teachers with continuing opportunities to refine and raise the effectiveness of their science teaching. Science Education faculty similarly work with university science department teaching associates. In all its endeavors, the department maintains close ties with the teachers and schools of the greater Long Beach area. The department offers a Master of Science in Science Education degree for the practicing teacher of science in elementary, middle and high schools as well as educators in informal science settings.

The department also undertakes projects aimed at pre-college students. The “Head Start on Science” project, one of only such projects supported by the US Department of Health and Human Services, is developing a “sense of wonder” science component for 4-year old “Head Start” youngsters, their teachers and parents. We have just expanded our early childhood science education outreach with a CPEC grant for K-2 teachers. Other projects include: linkages between, and research about, informal science learning settings and K-16 classrooms, CSUNASAE Education Collaborative, Teaching Secondary School Scholar Partnership (TSSSP), Robert C. Noyce Scholarship Program, and Young Scientists’ Camp. To complement their teaching activities, Science Education faculty members maintain an active program of research and are involved in a variety of local, state, and university organizations and projects to improve science education.

The Department of Science Education houses a suite of instructional classrooms and a multimedia computer laboratory. The classrooms and lab are Internet-wire offering students interactivity and access to many web-based instructional materials. The department is committed to meaningful integration of technology into the teaching and learning of science. The department also maintains an extensive Science Education Curriculum and Materials Resources Center that includes science teaching guides, textbooks, professional journals, and multimedia. Students and local teachers are welcome to explore these resources during campus and daytime hours. The department sponsors the Association of Future Science Educators (AFSE) which is a student chapter of the National Science Teachers Association (NSTA) and California Science Teachers Association (CSTA).

Graduate Programs

Master of Science in Science Education

The M.S. in Science Education is designed primarily for credentialed K-12 teachers and experienced informal educators interested in deepening their understanding of science, education, and the teaching and learning of science. The program includes a blend of courses from the Department of Science Education, the College of Natural Sciences and Mathematics, and the College of Education. The program introduces candidates to Science Education as a field of study, with its own journals, issues, and research areas.

Application

Prospective graduate students in M.S. in Science Education, including CSULB graduates, must formally apply for admission to CSULB as described previously in this Catalog and must also apply directly to the Department of Science Education. All applicants must submit the following documents directly to the department office.

1. Completion of departmental application form, including personal statement. The application form is available in the Department of Science Education office or on the internet (http://www.scienceteaching.org, click on “Masters Info”).

2. Two confidential recommendation letters, sent under separate cover, including one from an administrator or supervisor at a school/institution where the applicant is (or was) employed.

3. Transcripts (in addition to those required by the university; photocopies acceptable).

Prospective graduate students must also receive a positive recommendation following an interview with graduate faculty.

Review by the Graduate Studies Committee

The Graduate Studies Committee will review all completed applications and recommend either accepting the applicant as a Classified or Conditionally Classified graduate student, or denying admission. All accepted students should contact the departmental graduate advisor before their first semester for advisement and orientation.

Classified Graduate Student

The Department of Science Education will recommend for admission as a Classified graduate student any applicant who has met all prerequisites and been accepted by the Graduate Studies Committee.
Conditionally Classified Graduate Student

An applicant who fails to meet the criteria for Classified admission to the department may be considered by the Graduate Studies Committee for admission as a Conditionally Classified graduate student. The Graduate Studies Committee will determine what deficiencies each applicant has and specify what the individual must do to make up those deficiencies. The applicant must make up all such deficiencies before attaining Classified status.

Admission to the Department Prerequisites

In addition to the prerequisites for entrance into CSULB as a graduate student stated in this Catalog under Graduate Degrees and Post Baccalaureate Studies, the Science Education department requires:
- California Multiple Subject or science teaching credential, or the equivalent*;
- GPA of at least 3.0 for the last 60 units of study completed.
- Those students participating in the informal science option may substitute one or more years experience working as an educator in an informal learning setting; a letter of support is required.
- Students are expected to exhibit high standards of writing proficiency. Students missing any admission criteria may only be admitted after receiving the approval of a department graduate faculty committee.

Option in Elementary Science Education (code SCEDMS01)

The option in Elementary Science Education is designed for teachers who are K-8 generalists. Although aimed at those with a Multiple Subject credential, the program may also be appropriate for Single Subject teachers interested in increasing the breadth of their scientific knowledge.

Students completing this option will be prepared to assume positions of greater science leadership at their schools or districts, or go on to further graduate study in science education.

Program of Study

The Program of Study includes successful completion of:
1. 6 units from EDP 400, 419, 420, 519, 520, 595, or ETEC 623 (chosen in consultation with advisor)
2. Science Education core courses: SCED 550, 551, 552, 697
4. Thesis/Project: SCED 698

Option in Secondary Science Education (code SCEDMS02)

The Option in Secondary Science Education is aimed at teachers currently holding a Single Subject credential in Science. Graduate students enrolled in this option complete 9 units of graduate coursework in a Science discipline. The option is ideal for teachers interested in broadening their backgrounds in both Science and Science Education.

Students completing this option will be prepared to assume positions of greater science leadership at their schools or districts, or go on to further graduate study in science education.

Program of Study

The Program of Study includes successful completion of:
1. 6 units from EDP 400, 419, 420, 519, 520, 595, or ETEC 623 (chosen in consultation with advisor)
2. Science Education core courses: SCED 550, 551, 552, 697
3. Science courses: 9 units of graduate level Science (chosen in consultation with advisor)
4. Thesis/Project: SCED 698

Option in Informal Science Education (SCEDMS03)

The option in Informal Science Education is aimed at educators currently working in non-classroom settings such as museums, zoos, and nature centers, as well as those charged with fostering the public understanding of science. Graduate students enrolled in this program will strengthen their understanding of science, gain a deeper conception of the objectives and theories of science education, and examine the contexts of learning beyond the traditional classroom. This option is ideal for informal educators who wish to better understand and facilitate the learning that occurs within their institution. Students completing this option will be prepared to assume positions of greater science leadership within their institutions, or go on to further graduate study in science education.

Program of Study

The Program of Study (33 units) includes the successful completion of:
- Science Education core courses: SCED 550, 551, 552, 553, 697
- 6 units of science courses from: SCED 500, 501, 502, or other graduate-level science courses chosen in consultation with advisor
- 3 units research methodology from: EDP 520, REC 606, in consultation with advisor
- 3 units non-profit management or other practitioner-related course from: REC 526, 521, in consultation with advisor
- 3 units elective, chosen in consultation with advisor
- SCED 698, Thesis

Advancement to Candidacy

1. The regulations governing the master's degree are those in effect at the time of advancement to candidacy. A student must be designated as a Classified Student in good standing prior to advancing to candidacy.
2. A student must satisfy the general requirements of the University, including fulfilling the Graduation Writing Assessment Requirements (GWAR).
3. The student’s M.S. program must be approved by a faculty graduate advisor, the department graduate advisor and the department chair before submission to the Associate Dean for Graduate Accountability in the College of Natural Sciences and Mathematics.
4. Advancement to candidacy may take place upon satisfactory completion of six units in the M.S. program. A student must have been advanced to candidacy before initiating formal thesis research necessary to complete the M.S. degree.
Courses (SCED)

UPPER DIVISION

362. Elementary School Science Workshop (3)
Prerequisite: SCED 401.
Prepracticum development and use of "hands on" elementary school science teaching/learning activities, units, and learning centers. Letter grade only (A-F). (Lecture 2 hrs., workshop 2 hrs.) Course fee may be required.

401. A Process Approach to Science (3)
Prerequisite: BIOL 200; PSYC 112; GEOL 106, or both GEOL 102 and 104; all with a "C" or better grade. Processes of science as they relate to life, earth, and physical sciences. Practical approaches to understanding how science works modeled and integrated throughout. Letter grade only (A-F). (Lecture 2 hrs., laboratory 3 hrs.) Course fee may be required.

403. Integrated Science (3)
Prerequisites: Completion of all credential breadth requirements for the Single Subject Teaching Credential Program in Science, three-fourths of the credential specialization courses, and consent of instructor. Enrollment limited to students who intend to pursue a Single Subject Credential in Science.
Requires presentations, discussions, critical evaluation by students on selected interdisciplinary topics in sciences, and field work in integrated science assignments. Letter grade only (A-F). (Lecture 3 hrs.)

404. The Nature of Science and Scientific Reasoning for Teachers (3)
Prerequisites: Completion of at least three-fourths of the credential specialization courses for Single Subject Teaching Credential in science and consent of instructor. Enrollment limited to students who intend to pursue a Single Subject Credential in Science. Course has three aims: 1) to help students better understand the nature of science - its history, philosophy, psychology, and sociology; 2) to help students better understand methods of science and how to critically evaluate reports about scientific investigations. Finally, third, students learn how to apply these understandings to the 6-12 classroom. Letter grade only (A-F). (Lecture 3 hrs.)

475. Teaching and Learning Science, K-8 (3)
Prerequisite: Admission to the Multiple Subject Credential Program. Methods for teaching elementary school science. Development of sequenced, integrated inquiry-based science lessons addressing the needs of all learners.
60 contact hours, however, actual contact vary as coursework is offered with an on-line distance component (see Schedule of Classes footnote). TPRI Task completion partial fulfillment of course. 10 hours minimum of fieldwork in classrooms where at least 25% of students are classified as English language or concurrent enrollment in EDEL 482.
Letter grade only (A-F). Course fee may be required. Same course as EDEL 475. Not open for credit to students with credit in EDEL 475. (Lecture 2 hrs., activity 2 hrs.)

490/590. Special Topics in Science Education (1-3)
Prerequisite: Consent of Instructor. (Undergraduates enroll in SCED 490; graduates enroll in SCED 590.)
Topics in Science Education. Course content will vary from section to section. Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters. (Seminar 1-3 hrs.)

496. Directed Studies in Science Education (1-3)
Prerequisites: Consent of Instructor. Supervised study of current topics in science education. Letter grade only (A-F). May be repeated to a maximum of 3 units with different topics in different semesters.

GRADUATE LEVEL

500. Life Science Applications for K-8 Teachers (3)
Prerequisites: Admission to M.S. in Science Education program. BIOL 200. Emphasizes major themes and processes in life sciences, focusing on deepening understanding of concepts and approaches to teaching material in K-8. Approaches to developing teaching inquiry-based/meaningful learning units in biology modeled and integrated throughout course.
Letter grade only (A-F). (Seminar 3 hrs.)

501. Earth Sciences Applications for K-8 Teachers (3)
Prerequisites: Admission to the M.S. in Science Education program and GEOL 102; 110 or GEOL 106. Investigates earth science topics with focus on deepening understanding of earth science concepts and activities in K-8 classrooms and schools. Letter grade only (A-F). (Seminar 3 hrs.)

502. Physical Science Applications for K-8 Teachers (3)
Prerequisites: Admission to M.S. in Science Education program; PSYC 112. Investigates physical science topics with focus on deepening understanding of earth science concepts and activities in K-8 classrooms and schools. Letter grade only (A-F). (Seminar 3 hrs.)

550. Current Issues and Research in Science Education (3)
Prerequisite: Admission to M.S. in Science Education program. SCED 550 is a core course in the M.S. in Science Education. Introduces student to body of research and practical knowledge shared by science education community. Includes choosing, studying, and discussing articles from science education literature relevant to key issues in science education. Course requirements include attending science teacher's conventions. Letter grade only (A-F). (Seminar 3 hrs.)

551. Science Teaching, Learning and Curriculum Models (3)
Prerequisites: Admission to M.S. in Science Education program and SCED 550. SCED 551 is a core course in the M.S. in Science Education. Introduces students to professional literature about science teaching and learning. Traces historical development of elementary/secondary science curriculum models. Students examine role science and education organizations played in reforming science curriculum, and analyze curricula from variety of teaching/learning perspectives. Letter grade only (A-F). (Seminar 3 hrs.)

552. Nature of Science (3)
Prerequisites: Admission to M.S. in Science Education program and SCED 550. A core course in the M.S. in Science Education. Looks at science from historical, philosophical, psychological, and sociological perspectives. Examines perceptions of science and scientists, especially views of science in different cultures and times. Discusses using these perspectives to teach students about nature of science. Letter grade only (A-F). (Seminar 3 hrs.)
553. Science Learning in Informal Settings (3)
Prerequisite: Admission to Science Education M.S. program; consent of instructor. SCED 553 is a core course required of all Science Education M.S. candidates who have declared an option in informal science learning. Examines unique characteristics of non-school learning settings and how they promote (or hinder) scientific understanding. These "non-school settings" include science museums, zoos, aquaria, nature centers and even homes, where media such as television and the Internet play a prominent role. Multiple theoretical perspectives will be examined. Students will engage in their own research project in order to better understand an informal learning. Letter grade only (A-F). (Seminar 3 hrs.)

580. Introduction to College Science Teaching -I (1)
Prerequisite: Admission to Master's-level program in CNSM. This course addresses the fundamentals of college science instruction with an emphasis on immediate classroom application. Strategies for active learning, student assessment, and teacher development are introduced. Letter grade only (A-F). (Seminar 1 hr.)

590.4490. Special Topics in Science Education (1-3)
Prerequisite: Consent of instructor. (Undergraduates enroll in SCED 4490; graduates enroll in SCED 590.) Topics in Science Education. Course content will vary from section to section. Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters with consent of instructor. (Seminar 1-3 hrs.)

697. Directed Research (1-3)
Prerequisites: Consent of instructor and admission to M.S. in Science Education program. Independent investigation of a research problem or directed project, under the direction of a faculty member. May be repeated to a maximum of 3 units with different topics in the same semester. Letter grade only (A-F).

698. Thesis (1-3)
Prerequisites: Advancement to Candidacy for the M.S. in Science Education. 18 units of coursework required for M.S. Science Education completed, and consent of the chair of the thesis committee. Planning, preparation, and completion of the thesis project in Science Education. Letter grade only (A-F).
SINGLE SUBJECT TEACHER EDUCATION
PROGRAM
College of Education

University Coordinator: Karen Hekim Babt
Office: Teacher Preparation Advising Center (EDF1-67)
Telephone: (562) 985-5325
Website: www.ccsd.csulb.edu/single-subject

Assistant to the Coordinator: Jessica Viera
Student Services Coordinator: Stan Eggly
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Credentialed Advisors
Susan Carille (English Education)
Jean Jacques Jara (Languages Other Than English Education)
Sally Champaign (Health Science Education)
Vacant (Art Education)
Dave Nickles (Science Education)
Tina Kelm (Social Science Education)
Deborah Mitchell (Music Education)
Margaret Lichly (Home Economics Education)
Emyr Williams (Physical Education)
Angelo Segale (Mathematics Education)

Introduction
A teacher with a Single Subject Credential is authorized to teach the specific subject(s) named on the credential in departmentalized schools. This is commonly done in California high schools and in most California junior high and middle schools. However, a teacher authorized for single subject instruction may be assigned to teach any subject in his or her authorized fields at any grade level: pre-school, kindergarten and grades one through twelve; or in classes organized primarily for adults. The Single Subject Credential Program (SSCP) prepares university students to be credentialed in California for single subject instruction. At CSULB the program includes courses in the student's teaching subject area, in Secondary Education (EDSE), and in Single Subject Education (EDSS).

Students are able to receive information brochures by calling the Teacher Preparation Advising Center at (562) 985-5325 or on the website at www.ccsd.csulb.edu/single-subject.

Single Subject Credential Program
(code 100)
The Single Subject Credential Program is a 45 unit program comprised of one prerequisite, four co-requisites, four core courses, and the capstone student teaching experience and student teaching seminar. EDSS 300, the prerequisite course, must be taken prior to other EDSS and EDSE courses. The co-requisites may be taken prior to or concurrent with EDSS 300, or concurrent with the core courses. All course work must be completed prior to student teaching, except for the student teaching seminar which is taken concurrent with student teaching. Student teaching is a full teaching day, Monday through Friday, for approximately 20 weeks under the guidance of one or more cooperating teachers and a university supervisor.

Program Courses
Prerequisite: EDSS 300 (separate sections offered for each subject area)
Corequisites: EDP 301 or 302 or 305; HSC 411B; EDSP 350; Level I technology course or state-approved exam
Core Courses: EDSE 435, 436, 437; EDSS 450 (separate sections offered for each subject area)
Capstone: EDSS 472 and 473 or, for interns, 572 and 473.

Candidates in the 10 subject area programs can meet the computer technology requirement through the following courses: Art (ART 305), English (ENGL 337), Home Economics (ETEC 444), Health Science (ETEC 444), LOTE (RGR 470), Mathematics (MTED 301), Music (MUS 120T), KIN (KIN 354), Science (EDSS 300C, 450C, 473), Social Science (ETEC 444).

All professional coursework for the credential must be completed within seven years of admission to the program.

In addition to professional preparation, all credential candidates must demonstrate subject matter competence by one of the following: (a) completion of a Commission-approved subject matter program; (b) passing scores on the CSET exam; (c) transcript review. Candidates should confer as early as possible with the Credential Advisor in their subject area to develop an efficient program plan.

Admission to the Program
Before beginning the Single Subject Credential Program, students should be admitted to the university. Apply for admission if you are (a) a graduating senior at CSULB, (b) transferring from another institution, or (c) returning to the university after an absence of one or more semesters. Admission to the university does not constitute admission or acceptance in the SSCP. Application to the program is normally made as part of the course requirements for EDSS 300. Students may take the EDSS 300 course as early as the junior year with a minimum of 60 units.

Program Admission Requirements
1. Complete the prerequisite course EDSS 300 in the appropriate subject area, with a minimum grade of "B."
2. Perform satisfactorily in the 45 hour field work requirement in EDSS 300.
3. Attain a grade point average of at least 2.67 in all baccalaureate and post baccalaureate course work or a grade point average of at least 2.75 in the last 60 semester units or 90 quarter units attempted.
4. Complete a personal interview with program faculty.
5. Submit two recommendation forms that speak to the candidate's potential for successful public school teaching.
6. Submit a written statement of professional goals and philosophy of education.

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7. Provide evidence of fingerprint clearance (Certificate of Clearance) through the California Commission on Teacher Credentialing (CTC).

8. Submit a tuberculosis skin test or chest x-ray taken within the previous three years. Tuberculosis clearance must be valid through student teaching.

9. Take the CBEST exam. You must take all three parts of the exam. (Passage of the exam is required to advance to student teaching.)

10. Demonstrate proficiency in reading and writing English by (1) attaining the minimum passing score of 37 on the reading portion of the CBEST exam or by (2) achieving a "C" grade or better in a course satisfying the General Education requirement in literature or philosophy and by (1) attaining the minimum passing score of 37 on the writing portion of the CBEST or by (2) fulfillment of the Graduation Writing Assessment Requirement (GWAR).

11. Demonstrate ability to communicate orally in English at the level required of public school teachers by demonstration of English production skills in the course EDSS 300 and through an oral interview with subject matter program faculty. In the case of candidates for a credential in teaching Languages Other Than English, there is a bilingual interview requirement in English and the target language.

12. Demonstrate personality and character traits that satisfy the standards of the teaching profession and suitable aptitude for teaching in public schools through the application documentation, the personal interview, and performance in the course EDSS 300. Candidates must continue to demonstrate appropriate character and personality traits through completion of the program.

13. Submit a completed program application to the EDSS 300 instructor.

14. Complete all requirements for admission to the program unique to the candidate's subject matter program.

**Preliminary Credential**

Successful completion of the Single Subject Credential Program leads to the Preliminary Credential, which is valid for five years.

**Credential Requirements**

1. Hold a bachelor’s degree from an accredited institution.
2. Satisfy the U.S. Constitution requirement (POSC 100 or 391 or exam or equivalent course from another institution).
3. Pass CBEST.
5. Demonstrate subject matter competence.
6. Complete all prerequisite, co-requisite, core and capstone courses with a "B" average and a minimum grade of "C".
7. Complete all EDSS and EDSE courses. A minimum grade of "B" must be attained in EDSS 450.
9. Successfully complete student teaching and student teaching seminar.
10. Obtain a score of 3 or better on all 4 tasks in the state mandated Teacher Performance Assessment (Cal-TPA).

**Student Teaching**

Student Teaching is a full day, full semester responsibility following the school district calendar (approximately 20 weeks). Students teach three classes which represent different aspects or levels of the single subject major. The other two periods are for preparation and observation. The university determines the specific student teaching assignment. There are a wide variety of schools and teaching situations available in the program service area representative of the diversity of the region.

Advancement to Student Teaching is based upon a second thorough assessment of the candidate's qualifications. The process involves an evaluation of the applicant's file and an interview with faculty in the Single Subject Program. The criteria for advancement are as follows:

1. Potential for success in teaching, as indicated by successful leadership, teaching experience, or work experience. Updated information regarding the candidate's most recent experience, including work in EDSS 450, forms the basis of this assessment.
2. Continuing motivation for and enthusiasm toward teaching, together with those personality traits believed essential for successful teaching. Evidence includes a strong recommendation from the instructor of the 450 class and further recommendations from faculty who have worked with or have interviewed the student since the time of admission to the credential program.
3. Academic competence, overall, and in the teaching major. The level of academic achievement of candidates is expected to be above average.

**Advancement to Student Teaching Requirements**

1. Member in good standing of the Single Subject Credential Program.
2. A GPA of 2.75 in the last 60 units, or 2.67 overall.
3. Complete all program courses, except Student Teaching and Seminar.
4. A minimum "B" grade point average in program courses, including prerequisites, corequisites and core courses, with no grade lower than "C." A minimum 3.0 grade point average must be maintained in all EDSS and EDSE courses. Completion of EDSS 450 with a minimum grade of "B."
5. TB clearance (clearance must be valid though completion of student teaching).
6. Pass the California Basic Educational Skills Test (CBEST), or approved alternate prior to the student teaching application deadline.
7. Course-takers must satisfy the subject matter mastery requirement prior to the first day of student teaching.
9. Attend a student teaching application meeting and submit a student teaching application by October 1 or March 1 of the semester prior to student teaching.

**Student Teaching Application Process**

1. Student Teaching applications are distributed at student teaching information meetings held the first two weeks of the semester. Candidates for advancement to student teaching must attend a meeting. Meeting dates are posted
outside the Single Subject Program office and are available on the website.

2. The application for Student Teaching is reviewed by the student's Single Subject major area. The Credential Center evaluates transcripts. The department then makes a recommendation to the University Single Subject Teacher Education Committee which takes final action. When approved by this committee, the student registers for student teaching. A priority system is used if sufficient funding is not available to allow all qualified applicants to enroll in student teaching.

3. A Certificate of Clearance must be on file in the Credential Center prior to the beginning of Student Teaching.

**Single Subject Internship**

The Internship Program provides an opportunity for qualified Single Subject Credential Program candidates to work as teachers of record while completing their preservice preparation. Internship positions are offered by the district in consultation with the Single Subject Program. An internship is an entry-level paid teaching position in a regular public secondary school classroom. The Intern Credential holder is an employee of the school district on a contractual basis and is subject to all district employment policies. Interns are also program students, subject to program requirements.

Interns hold considerable responsibility as the classroom teacher of record responsible for designing, developing, and implementing curriculum and instruction for a full load of classes for the length of the school year. In addition, they are expected to be fully participating members of the school faculty, including service on school committees, supervision of student activities, and attendance at school and district meetings and inservices. Only candidates who are truly ready for the responsibility and heavy workload should become interns. Candidates should consult with their Credential Program Advisor and the University Coordinator as they explore the possibility of doing an internship.

To be approved for an internship, candidates must meet the following requirements: be in good standing in the program, be enrolled in at least one program course each semester, pass the CBEST (or approved alternate), demonstrate subject matter competence (as determined by CTC subject matter requirements), have character clearance, demonstrate 120 hours of TPE training with 40 of those hours in ELL training, demonstrate relevant successful experience working with students, and show proof of meeting the U. S. Constitution requirement. The internship offer is made by the school district, and must be in the candidate's teaching field. Interns cannot teach out of their field. Candidates must have the approval of the Credential Advisor in their subject area and the approval of the University Coordinator. There must be a District/University Internship Agreement in place between the district and CSULB.

Upon completing all program requirements for advancement to student teaching, Interns use their teaching position as the "student teaching" experience. Interns must submit an application to student teach by the regular deadlines: October 1 for Spring and March 1 for Fall student teaching. Interns register for 15 units of Intern Student Teaching and 3 units of Student Teaching Seminar. A University Supervisor observes the intern periodically during the term, conferring with the intern after site visits, and provides support as needed. The school provides a Site Support Teacher who functions as the Intern's on-site mentor. Interns are evaluated on program evaluation forms that are based on the California Teaching Performance Expectations.

**Intern Application Guidelines** and application materials are available at the Credential Preparation Advising Center (ED1-67). Late applications may not be approved until the following semester. Candidates should contact the Single Subject Program office for a list of districts with which the program has intern contractual agreements.

The Early Completion Intern Option allows qualified candidates to challenge the coursework portion of the internship program and demonstrate their pedagogical skills by passage of the California Teaching Performance Assessment while serving as an intern. See an advisor in the Credential Preparation Advising Center for details.

**Clear Credential**

The Preliminary credential is valid for five years from the date of issuance and is not renewable. During the first five years of teaching, teachers earn the Clear Credential through their District-Sponsored Induction Program.

**Petition Process**

Appeals to program decisions or requests for policy waivers are made by filing a written appeal to the Single Subject Program Petition Committee. The Petition Committee reviews the written statement and supporting evidence. After the review, the Committee renders its final decision. Examples of petitionable policies are: the minimum grade point average required for program admission, completing all program courses prior to student teaching, and course equivalencies. Consult the program office for items not listed here. Students follow university policy to appeal a course final grade.

**Single Subject Credential Program Majors**

The subject matter programs listed below have been approved by the California Commission on Teacher Credentialing. Completion of a program as an undergraduate major (or as a returning graduate student) meets the subject matter competence requirement for the teaching credential. With careful planning, it may be possible for undergraduates to complete the professional preparation (education) courses concurrent with the major, with the exception of student teaching and seminar (which may be done the first semester after graduation). Subject matter competence may also be demonstrated by passing the appropriate CSET exam. Candidates should consult the Credential Advisor in their area of interest to develop an efficient program plan.

**Art Education (code 110)**

Course requirements for demonstrating subject matter competence in Art are listed in the Art Department under Bachelor of Arts in Arts, Option in Art Education. Subject matter competence may be met through completion of 30 core units and 36 breadth and preservice units. Consult with the Single Subject Art Education Advisor for specific academic advisement and program information. The Art Subject Matter Program is being revised to meet new state standards. When
the revised program has been approved by the Commission on Teacher Credentialing. The revised course requirements will be in effect and supersede current requirements.

**English Education (code 120)**

Course requirements for demonstrating subject matter competence in English are listed in the English Department under Bachelor of Arts in English, Option in English Education. Subject matter competence may be met through completion of 35 core units and 18 breadth and perspective units. Consult with the Single Subject English Education Advisor for specific academic advisement and program information.

**Languages Other Than English (LOTEN)**

French code 152, German code 153, Italian code 154, Japanese code 155, Latin code 156, Spanish code 158

Course requirements for demonstrating subject matter competence in individual Languages Other Than English are listed under the Bachelor of Arts requirements in the appropriate department (French, German, Italian, Spanish: Romance, German and Russian Languages Dept.; Japanese: Asian and Asian American Studies Dept.; Latin: Comparative World Literature and Classics Dept.). In each instance, the Bachelor of Arts degree leads to subject matter competence in the language. Consult with the Single Subject Languages Other than English Education Advisor for specific academic advisement and program information. The LOTEN Subject Matter Program has been revised to meet new state standards and approved by the Commission on Teacher Credentialing for French, German, Italian, Latin, and Spanish, Japanese and Korean, for which new course requirements will be in effect and supersede current requirements.

**Health Science (code 130)**

Course requirements for demonstrating subject matter competence in Health Science are listed in the Health Science Department under Bachelor of Science in Health Science, Option in School Health Education. Subject matter competence may be met through completion of 20 lower division units and 46 upper division units. Consult with the Single Subject Health Science Education Advisor for specific academic advisement and program information. The Health Science Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

**Home Economics Education (code 140)**

Course requirements for demonstrating subject matter competence in Home Economics are listed in the Family and Consumer Sciences Department under Bachelor of Arts in Family and Consumer Sciences, Option in Family and Consumer Science Education. Subject matter competence may be met through completion of 35 lower division units and 35 upper division units. Consult with the Single Subject Family and Consumer Sciences Education Advisor for specific academic advisement and program information. The Home Economics Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

**Mathematics Education (code 165)**

Course requirements for demonstrating subject matter competence in Mathematics are listed in the Mathematics and Statistics Department under Bachelor of Science in Mathematics, Option in Mathematics Education. Subject matter competence may be met through completion of 30 lower units and 36 upper division units. Consult with the Single Subject Mathematics Education Advisor for specific academic advisement and program information.

**Music Education (code 170)**

Course requirements for demonstrating subject matter competence in Music are listed in the Music Department under Bachelor of Music, Option in Music Education. Subject matter competence may be met through completion of 65 units for both choral/vocal and instrumental options. Consult with the Single Subject Music Education Advisor for specific academic advisement and program information. The Music Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

**Physical Education (code 175)**

Course requirements for demonstrating subject matter competence in Physical Education are listed in the Kinesiology Department under Bachelor of Arts in Kinesiology, Option in Elementary, Secondary, or Adapted Physical Education. Subject matter competence may be met through completion of 20 lower division units and 40 upper division units. Consult with the Single Subject Physical Education Advisor for specific academic advisement and program information. The Physical Education Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

**Science Education:**

**Biological Sciences (code 184)**

**Chemistry (code 181)**

**Geosciences (code 182)**

**Physics (code 183)**

Course requirements for demonstrating subject matter competence in Sciences are listed in the Science Education Department under Subject Matter Competence for the Single Subject Credential. Breadth and specialization units vary for the four science areas. Consult with the Single Subject Science Education Advisor for specific academic advisement and program information. The Science Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.
Social Science Education (code 185)
The Social Science subject matter program is currently under revision. Consult the Social Science program advisor for new program requirements.

Single Subject Education Courses (EDSS)

UPPER DIVISION

300A-S. Introduction to Teaching (3)
Prerequisite: Advanced sophomore or junior standing.
Structure, organization, culture of schools; curriculum, instruction, assessment, classroom management; history and current status of the subject area; becoming a reflective professional. Submission of application to the Single Subject Credential Program (SSCP). "B" grade or better required for admission to the SSCP. First course in the professional education sequence of the SSCP. Students register for the section bearing the letter associated with their discipline from the list below.
45-hour directed fieldwork required. Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters.
(3) Lecture 3 hours
A. Art
C. Science
D. Health Science (F)
E. LOTE: Languages Other Than English
G. English
H. Home Economics (F)
M. Mathematics
N. Music (S)
P. Physical Education
S. Social Science

450A. Curriculum and Methods in Teaching Art (3)
Prerequisite: EDSS 300A; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching art to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks. Required prior to student teaching.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Course fee may be required. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450C. Curriculum and Methods in Teaching Science (3)
Prerequisite: EDSS 300C; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching science to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
(2) Lecture 2 hours, laboratory 1 hour + TBA Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450D. Curriculum and Methods in Teaching Health Science (3) S
Prerequisite: EDSS 300D; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching health to diverse students.

450F. Curriculum and Methods in Teaching Languages Other Than English (3)
Prerequisite: EDSS 300F; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching world languages to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450G. Curriculum and Methods in Teaching English (3)
Prerequisite: EDSS 300G; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching English to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450H. Curriculum and Methods in Teaching Home Economics (3) S
Prerequisite: EDSS 300H; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching home economics to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450M. Curriculum and Methods in Teaching Mathematics (3)
Prerequisite: EDSS 300M; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching mathematics to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

450N. Curriculum and Methods in Teaching Music (3) F
Prerequisite: EDSS 300N; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching music to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.
458P, Curriculum and Methods in Teaching Physical Education (3)
Prerequisite: EDSS 300P; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator; current single subject credential; completion of all skill performance proficiencies with an overall score of 3.5. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching physical education to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

468S, Curriculum and Methods in Teaching Social Science (3)
Prerequisite: EDSS 300S; admission to the Single Subject Credential Program or permission of the Single Subject Credential Program University Coordinator. Required prior to student teaching.
Objectives, curriculum, materials, instructional strategies, and assessment specific to teaching history and social science to diverse students. Reflective practice based on the California Standards for the Teaching Profession and state curriculum frameworks.
Fieldwork requirement. "B" grade or better required to advance to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

472A, B, C, Student Teaching (5, 5, 5)
Concurrent: EDSS 473. Prerequisite: EDSS 450 (A, C, D, F, G, H, I, N, P, or S) and permission of the University Coordinator; submission of application to student teach by the deadline (October 1 for Spring term; March 1 for Summer and Fall terms); pass or pass (C/D or D) in CBEST; character and identification clearance (fingerprint clearance); completion of all program course work; demonstration of subject matter competence; portfolio assessment in selected programs; approval for advancement to student teaching by the Credential Advisor and University Coordinator of the Single Subject Credential Program. Required prior to student teaching. Letter grade only (A-F). May be repeated to a maximum of 6 units.

473A-S, Student Teaching Seminar (3)
Prerequisite: Admission to the Single Subject Credential Program, or consent of the Single Subject Credential Program University Coordinator, advanced to student teaching. Concurrent: EDSS 472.
Focus: theory to practice within the context of teaching. Covers curriculum, instruction, assessment, classroom management, equity and access for all students. Prepares candidates for induction into the teaching profession.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
A. Art
C. Science
D. Health Science

490, Curriculum Topics in Selected Academic Subjects (1-3)
Prerequisite: Consent of instructor.
Selected secondary curriculum topics. Academic subject to be covered will be announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics; but only 6 units with a letter grade may be applied toward advanced degrees.

497, Independent Study (1-3)
Prerequisites: Consent of instructor and Single Subject Program Coordinator.
Independent study undertaken under the supervision of a faculty member.
May be repeated to a maximum of 3 units.

GRADUATE LEVEL

572A, B, C, Intern Student Teaching (5, 5, 5)
Concurrent: EDSS 473. Prerequisite: Admission to the Single Subject Intern Program; offer of intern teaching position from a cooperating school district; submission of application to student teach by the deadline (October 1 for Spring term; March 1 for Summer and Fall terms); pass or pass (C/D or D) in CBEST; character and identification clearance (fingerprint clearance); completion of all program course work; demonstration of subject matter competence; portfolio assessment required in selected programs; approval for advancement to student teaching by the Credential Advisor and University Coordinator of the Single Subject Credential Program. Use of the intern's teaching position as student teaching. Must be done in the subject that is authorized on the intern's credential.
Interns must be approved by the program for contract positions in cooperating school districts.
Credit/No Credit grading only ("A" or "B" quality work required for credit). May be repeated to a maximum of 10 units.

Secondary Education Courses (EDSE)

UPPER DIVISION

435, United States Secondary Schools: Intercultural Education (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, I, N, P, or S); and permission of the University Coordinator of the Single Subject Credential Program. Required course in the Single Subject Credential Program.
Critical reflection on multicultural education in a diverse society. Understanding contemporary secondary schools. Curriculum and student populations in the context of issues and controversies in education.
Fifteen hour fieldwork requirement. Letter grade only (A-F). May be repeated to a maximum of 6 units.

436, Curriculum, Instruction, Assessment and Classroom Management (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, I, N, P, or S); and admission in the Single Subject Credential Program; or permission of the University Coordinator of the Single Subject Credential Program. Required course in the Single Subject Credential Program.
Explores systematic instruction, theories of learning, curriculum
development, teaching strategies, assessment and evaluation
of student progress, classroom management and discipline, and
establishing successful learning environments for all students.

Fifteen hour fieldwork requirement. Letter grade only (A–F). May be
repeated to a maximum of 6 units.

457. Reading and Writing in the Secondary School (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, M, N, P, or S); and
admission in the Single Subject Credential Program; or permission
of the University Coordinator of the Single Subject Credential
Program. Required course in the Single Subject Credential
Program.

Emphasis on reading and writing assessment and instruction;
textbook selection; vocabulary development; comprehension
strategies; content area reading and study skills; writing instruction;
English Language Development: the reading needs of less
prepared, English language, and accelerated learners; and issues
of diversity and equity.

Fifteen hours of field work required. Letter grade only (A–F). May
be repeated to a maximum of 6 units.
SOCIAL WORK
College of Health and Human Services

Director: John Oliver
Associate Director – Coordinator of Academic Programs: Rebecca Lopez (562) 985-8685
Undergraduate Program Coordinator/Undergraduate Advisor: Nancy Meyer-Adams (562) 985-4058
Admissions Coordinator: Candace M. Smith (562) 985-8180
Coordinator of Field Education: Martin Klemek (562) 985-8178
Distance Education Coordinator: Marilyn Potts (562) 985-9183
MSW / BASW 24 Hour Information Line: (562) 985-5664 / 985-5427
Department Office: SSPM, Room 161
Department Telephone / FAX: (562) 985-4616 / 985-5514
Assistant to the Director: Ann Padzik (562) 985-1878
Full-time Field Faculty: Venetta Campbell, Yoshinada Cato-Ford, Toms Crewe, Michael Fowler, Judy Green, Marian Klemek, Stacey Peyer, Joy Rubin, Susana Sallay

Students desiring information should contact the numbers listed above. Program applications (BASW, MSW) are available on the department’s website (www.csulb.edu/depts/socialwork).

Career Possibilities
Social Worker • Hospital Discharge Planner • Services Eligibility Worker • Psychiatric Social Worker • Probation or Parole Officer • Delinquency Prevention Program Worker • Medical Social Worker • School Social Worker • Child Welfare Caseworker • Community Organization Administrator • Health Care Administrator • Director of Social Services • Researcher • Organization Administrator • Health Care Administrator • Researcher • Employment Program Supervisor • Industrial Social Worker • Health Educator and Hospice Services Coordinator • Case Management • Gerontological Social Work • Community Organizer • Social Policy Analyst
(For more information, see www.careers.csulb.edu.)

Introduction
The mission of the profession of social work is to improve the quality of life for all people and to enhance human potential for full and productive participation in society. As such, social work has universal application to meet human needs arising from personal-societal interactions. Social Work, based on the history and philosophy of the profession, is committed to working with disenfranchised groups to alleviate poverty and oppression and to empower at-risk groups including families and communities.

The social work method is a change-oriented process which helps individuals and social units of all sizes, structures and functions to discover, mobilize, develop and use their own and outside resources to change personal and social conditions which are barriers to meeting their needs. Change is accomplished through direct service, supervision, consultation, education, community organization, program development and evaluation, organizational and administrative advocacy, policy development, and social or political action.

Social workers are employed in varied settings, such as major societal institutions, health and mental health, child welfare, family services, government, corrections, aging services, recreation, and labor and industry. They work in many job classifications: direct service, community organization, supervision, consultation, management, administration, education and training, policy analysis and research.

The mission of the Department of Social Work is to prepare a diverse student population for Bachelor of Arts in Social Work (BASW) and Master in Social Work (MSW) degrees for professional social work practice. The graduates of these programs are able to:

- demonstrate competent and ethical practice with diverse and multicultural populations from a base that builds on advances in social work knowledge, values and skills;
- enhance the well-being, and address the needs of diverse and multicultural populations across the life span; and
- advocate for social justice and social change and for elimination of oppression and discrimination.

Additionally, the mission is to provide BASW and MSW education which is broadly accessible so that graduates can serve the needs of local, state and international communities in which they practice. In order to accomplish the mission, the Department draws on a diverse faculty who provide quality social work education and contribute to the community, the profession and the advancement of professional knowledge: The Departmental curriculum assists BASW and MSW students to gain professional knowledge and values and develop an understanding of, and skill in social work methods and techniques required to undertake quality practice within the full spectrum of professional tasks. Those expectations are accomplished with the student through the integration of the information and theories of the classroom with supervised practical experience in a variety of social agencies.

The BASW and MSW programs are accredited by the Council on Social Work Education (Council on Social Work Education, Commission on Accreditation, 1725 Duke Street, Alexandria, VA 22314, phone number: 703-883-8880).

Departmental, University and Council on Social Work Education regulations do not permit the substitution of life or work experience for curriculum or degree requirements.

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Undergraduate Programs

Bachelor of Arts in Social Work (code SW_BA01) (120 units)

The Department of Social Work offers, in conjunction with the general education requirements, a professional program leading to a Bachelor of Arts in Social Work (BASW). The goals of the BASW program are to prepare students for entry level, professional, generalist social work practice and for graduate social work education, including advanced standing. Students learn to practice as professional social workers with persons and groups representing the range of human diversity and with systems of all sizes (individuals, families, groups, communities and institutions).

Social Work majors should consider taking courses as electives or for fulfillment of general education requirements in the ethnic studies, women's studies and gerontology programs in the Colleges of Health and Human Services and Liberal Arts. The Department can make recommendations concerning those courses which would be most useful to students interested in acquiring broader information closely allied to professional social work practice.

Admission Under Impaction

To be eligible for admission to Social Work, applicants must demonstrate the following prior to the semester for which the application is submitted. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on review of the entire application packet. Applicants must have met requirements for admission to the university as a freshman or transfer student. Applicants must have completed the following prerequisite courses with a minimum grade point average of 2.50: BIOL 205, PSY 100, SOC 100, ANTH 120 or their equivalents, and a course in elementary statistics such as HDEV 250, MATH 108, PSY 110, or SOC 250 or their equivalents. Applicants must submit a supplemental application to the department by the third Friday in February for the fall semester. The application includes statements of biographical and educational background and a description of community and/or social work experience. Each applicant must submit two letters of reference, one academic and one professional. The number of applicants who can be admitted is limited by space availability. Eligible applicants will be selected for admission based on review of the entire application packet.

Admission Under Impaction for Continuing Students

Students who indicate a Social Work major when they enter as freshmen will be assigned a pre-social work major code. Acceptance into the pre-major by the university does not imply or assure subsequent acceptance into the major by the Department. Students who are not accepted into the major cannot continue as pre-social work majors.

Admission Under Impaction for Transfer Students

Students must be eligible for admission to the university as transfer students and must apply for admission to the university no later than November 30 for admission the following fall. Students who are not admitted to the major will not be admitted to the university unless they have listed a second choice of major on the application form.

Additional Requirements

To be allowed to continue in the major, students must complete the following during the first two semesters in the major courses:

A. Pass Abnormal Psychology
B. Fulfill the Graduation Writing Assessment Requirement (GWAR)

Students can contact the Department's admissions office for academic advising concerning the requirements for admission into the BASW program.

Fieldwork

The field sequence has an integral role in the BASW curriculum providing an opportunity for students to apply social work knowledge and practice skills in an agency based educationally focused fieldwork internship. Students complete 450 hours of field placement (SW 495A/B) in their senior year for which they earn 14 academic units. Students complete 16 hours per week in an assigned agency placement. A variety of agencies in the surrounding communities are used, and the Department's field faculty selects the most appropriate field placement site for students.

Sequence of Required Social Work Courses

Full-time students will take the following sequence of courses starting with:

First Level (fall): SW 220, 221, 330, 350
Second Level (spring): SW 331, 340, 341, 351
Third Level (fall): SW 440, 442, 495A
Fourth Level (spring): SW 441, 465, 496B

Part-time students will take the following sequence of courses:

First Level (fall): SW 220, 221
Second Level (spring): SW 330, 350
Third Level (fall): SW 331, 351
Fourth Level (spring): SW 340, 341
Fifth Level (fall): SW 440, 442, 495A
Sixth Level (Spring): SW 441, 465, 496B

All Social Work courses must be completed with a grade no lower than a "C" in classroom courses or a "CR" for practicum or field experience. If a student earns a grade lower than a "C" in a classroom course or a "NC" in a practicum or field experience course, the student must repeat the course. All courses must be taken in sequence.

CalSWEC BASW Program

California Social Work Education Center (CalSWEC) is a unique partnership between social work education and the publicly supported child welfare agencies. A goal of the CalSWEC program is to recruit and prepare a diverse group of social workers for careers in public child welfare. CalSWEC provides financial support to BASW students in exchange for a commitment to work in a public child welfare agency after graduation. The intent of the program is to strengthen and enhance the quality of practice by professionally trained and educated public child welfare social workers.

The IV-E stipends provide support for full-time students enrolled in the BASW program. A CalSWEC reimbursement program is available for part-time students currently employed with the County Social Services department that provides
child welfare or assistance benefits eligibility functions. All part-time applicants must provide a letter of support from their agency administrator/director. Financial support for awarded part-time students will include actual cost of full tuition and fees, book costs as well as a travel allowance.

Application Process

Students must first be admitted into the BASW program. Students are required to complete a CalSWEC application. The application is supplemented with various questions designed to ascertain their interest and level of commitment to a career in public child welfare. Once accepted into the program, students must undergo pre-screening for county employment including fingerprinting and participation in the criminal clearance process. The student is required to sign a contract to secure full-time employment in a public child welfare agency after graduation.

Priority is given to applicants representing diverse population groups currently served by child welfare agencies in California. Fluency in a high demand language is also given priority. Years of service and other child welfare experience also weigh significantly into the selection process. Students in the program must be U.S. citizens or have a permanent visa.

An Awards Committee, made up of representatives of the CSULB Department of Social Work and representatives of public child welfare agencies from counties surrounding the University, will review and finalize selection of candidates to whom the award will be offered.

Requirements

Students participating in the program must meet all the following criteria:

1. Successful BASW admission;
2. Maintain a C (2.0) average;
3. Attendance at mandatory seminars/trainings on specialized topics;
4. Have a valid driver’s license and secure use of a car as required for fieldwork;
5. Undergo pre-screening for county employment;
6. Complete required health screenings;
7. Fulfill work commitment upon graduation; Students participating in the full time program sign a contract to render one year of continuous and satisfactory full-time employment in a public child welfare agency. Students in the part-time program sign a contract to render one year of full-time employment in their home agency for each year of IV-E education support;
8. Students must reimburse CalSWEC if they are unable to successfully complete any of the program requirements.

Graduate Programs

Master of Social Work (code SW-MW01)

The Department of Social Work offers a professional program culminating in a Master’s degree in Social Work. Our goal is to prepare students to enter professional, multicultural social work practice. Students learn to practice as professional social workers with persons and groups representing the range of human diversity and with all size systems (individuals, families, groups, communities and institutions). In addition, students are prepared for advanced, specialized practice in concentrations representing Children, Youth and Families or Older Adults and Families.

The MSW program emphasizes ecological and systems perspectives which focus on the fit and interactions of a person in system in relation to the various environments likely to be encountered. Within these perspectives, knowledge, values, and skills are used in a change-oriented process within a multicultural context to help individuals and social systems achieve improved quality of life and social participation, including advocacy for just institutions and equitable access to opportunities and resources.

In addition to the mission noted above, the MSW program provides an educational experience which does the following:

1. Provides knowledge and experience with ethnic diversity, teaches skill in ethnic-sensitive practice, and provides motivation and skill to combat oppressive policies and discrimination. As such, the program actively offers opportunity for graduate education to students of various ethnic, racial, and socio-economic backgrounds who have life experience in bridging cultural gaps;

2. Contributes to the quality of social services delivered in the adjacent communities (Los Angeles, Ventura, San Bernardino, Riverside, and Orange Counties) by providing an opportunity for advanced education to students who are already employed in the social services. Those students may concurrently maintain employment within the social services and participate in the program to develop advanced skills in their area. Quality of services is also enhanced through close collaboration between the Department of Social Work and community service agencies offering fieldwork experiences and through the labor force of MSW’s educated in a program with multicultural emphasis and specializations which reflect the needs of our adjacent community as well as the needs of urban communities nationally;

3. Prepares social workers for leadership and specialized practice with a specific population group. The program maintains high standards and prepares social workers for the depth and complexity of generalist Social Work practice while being able to practice in a chosen area of concentration. Foundation knowledge, values, and skills required for intervention in a multicultural context are applied and developed through work within the area of specialization. Specialization consists of emphasis on a stage of the life cycle: either children, youth, and families or older adults and families. Specialized education is offered concurrently with basic foundation knowledge from entry into the program. Students are expected to have experience in the social services upon which to draw after entry into the program;

4. Teaches analytic skill necessary for reflective and autonomous practice and necessary for contribution to the advancement of knowledge. Social workers should be capable of integrating knowledge and practice, should be able to apply grounded, scientific principles to practice, should be capable of conceptualizing practice principles on the basis of their experience, and therefore should be able to contribute to the development of new knowledge.

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5. Educates students to the values and ethics of the profession. The social worker is expected to be committed to the value that people should have equal access to resources, services, and opportunities. Social workers should be advocates of humane and responsive service, have regard for the worth and dignity of the individual, and conduct themselves in accordance with the professional code of ethics.

Concentrations

The Master of Social Work degree offers opportunity for study in two areas of concentration: Older Adults and Families or Children, Youth and Families. The concentrations reflect two of the major areas of social concern and programs in our society. Child neglect and abuse, single parents, drugs and gangs illustrate the tremendous need for service to children and their families. Interestingly, the other end of the age range also reflects neglect and a need for service. The aged, the fastest growing population segment in our society, often lead healthy productive lives; however, many at risk individuals and their families will require services. For example, older adults in the uppermost age brackets are often frail and, therefore, may have a greater need for social services, income maintenance, housing, health and personal care services.

With both groups, the family is often the mediating source, and the social worker needs to be able to work with the family as well. Both groups are represented by large numbers in Southern California, and programs are developing to serve the need. Professional social workers have a vital part to play in ensuring that these services are adequate and sound.

The Children, Youth and Families Concentration (CYF)

The Children, Youth and Families (CYF) concentration prepares students for practice in a variety of settings. Students are exposed to the full range of practice skills and have one year of direct practice experience and a second year of more intense direct practice or administrative practice experience.

Fieldwork placements are available in a variety of agencies in the surrounding five-county area, including public, private and non-profit agencies. Typical settings include child welfare/protective services, health care, mental health, public social services, schools, community-based outpatient agencies, corrections/juvenile justice, residential treatment, programs for persons with developmental disabilities, substance abuse treatment and other specialized programs.

Required Courses for CYF Concentration

SW 560 Direct Intervention with Individuals and Families: Focus on CYF
SW 660 Direct Intervention with Groups and Families: Focus on CYF
SW 670 Social Work Administration
SW 681 Advanced Policy and Political Action: CYF
SW 596 and SW 680 Fieldwork placement in two different CYF agencies
SW 688/689 Master's Thesis
Two electives (any scheduled electives)

Distance Education

The Children, Youth and Families Concentration is also offered at off-campus locations throughout the state. Current distance education sites include Sonoma State University and CSU Channel Islands. Courses are taught using face-to-face instruction, as well as interactive television and web-based instructional support. The distance education MSW is offered using a 3-year, part-time model. Students attend courses on Saturdays and complete fieldwork requirements during the second and third years of the program.

Distance Education Model

Fall-Term

SW 505 Oppressed Groups
SW 503A Human Behavior and Environment in Multicultural Perspectives. Focus on Prenatal through Adolescence

Spring-Term

SW 503B Human Behavior and Environment in Multicultural Perspectives: Focus on Young Adulthood through Old Age
SW 592 Community Projects I

Summer-Term

SW 594A Research Methods I
SW 693 Community Projects II

Fall-Term

SW 600 Elective
SW 596A Field Instruction I
SW 500 Foundations of Generalist Social Work Practice

Spring-Term

SW 594B Research Methods II
SW 596B Field Instruction II
SW 560 Direct Intervention; Focus on CYF

Summer-Term

SW 600 Elective
SW 680A Thesis or Project I

Fall-Term

SW 660 Direct Intervention with Groups
SW 680A Field Instruction III
SW 699A Thesis or Project II

Spring-Term

SW 681 Advanced Policy
SW 680B Field Instruction IV
SW 670 Social Work Administration

The Older Adults and Families Concentration (OAF)

The Older Adults and Families (OAF) concentration prepares students for practice in the delivery of social services to older adults and their families, in the planning and evaluation of social services and in administration of services and policy development. Students experience one year of placement in a direct practice setting and may select either a direct practice or administrative practice setting for their second year.

Fieldwork placements are available in a variety of agencies in the surrounding five-county area including public and private nonprofit agencies. Typical settings include...
health care, adult protective services, mental health, community-based outpatient agencies, rehabilitation, programs for the developmentally disabled, substance abuse treatment, senior programs and other specialty services.

Required Courses for OAF Concentration
SW 561 Direct Intervention with Individuals and Families: Focus on Older Adults
SW 661 Direct Intervention with Groups: Focus on Older Adults
SW 670 Social Work Administration
SW 682 Advanced Policy Seminar: Older Adults and Families
SW 596 and SW 680 Fieldwork placement in two different Aging and Family agencies
SW 698/699 Master's Thesis or Project
Two electives (any selected electives)

Admission to MSW Advanced Standing Program
Students who have a 3.0 GPA and a BSW degree may be conditionally accepted to the MSW Advanced Standing Program. Upon successful completion of an intensive summer bridge module (see below), the core content from the 1st year of the traditional MSW program (or 30 units) will be waived and students will be Advanced to Candidacy to begin year two of the traditional MSW program curriculum.

Admission Criteria for Advanced Standing
In addition to the Department's basic admissions application procedures as well as University application procedures, the following are requirements for all Advanced Standing applicants:

- Graduation, within the last 5 years, from an undergraduate Social Work program that is accredited by the Council on Social Work Education at the time of the applicant’s graduation.
- Applicants must have a cumulative 3.0 (on a 4.0 scale) grade point average for all undergraduate work.
- Provisional acceptance for persons currently enrolled in BASW/BSW programs is contingent on the successful completion of that program plus submission of a reference letter from an undergraduate's current field instructor, as well as a reference letter from the applicant's program advisor or a professor who taught one of the required courses during the senior year (two of the required references).
- All acceptances to the Advanced Standing Program are conditional until University Enrollment Services admits a student and all Summer Bridge modules have been successfully completed.

Waiver of the First Year Core: Common Body of Knowledge
The Master's in Social Work degree is based upon a common body of knowledge. Students with a Bachelor's degree in social work from this University, or from other CSWE accredited undergraduate social work programs, within the last five years, will have met much of the First Year Core requirements. Students' transcripts are reviewed for completion of the necessary coursework for mastery of the common body of knowledge. A 3.0 GPA in the undergraduate social work courses, with no grades below a "C", and 2.5 overall GPA are required to meet the criteria.

Waivers of the First Year Core (30 units) are based upon previous educational background at the undergraduate level and upon completion of Summer Bridge courses and field placement in this social work department. Summer Bridge courses will include modules from each of the program's sequences: research, practice, human behavior and social policy. Summer Bridge fieldwork placement will include 160 hours (16 hours per week). Students, therefore, have provisional admission to the department until they have successfully completed the summer program. When they successfully complete the Summer Bridge courses and field placement, they receive the Waiver of the First Year Core and enter the second year of the MSW program in the fall semester. Students are immediately Advanced to Candidacy upon receiving a Waiver of the First Year Core. The courses that are waived as the First Year Core are: SW 500, 503A, 505, 594B, 596A, 560 or 561, 592, 594A, 594B, 594C, and 503B.

Students, for whom the First Year Core is waived, are not eligible for the Geriatric Social Work Education Consortium, Inter-University Consortium CalSWEC Child Welfare or the PPSC Credentialed Program.

Admission to MSW Program
Students interested in full and part-time study are admitted to the MSW program for the fall or spring semester each year. Prospective students should apply directly to the Department of Social Work as well as to the University. International students must also apply to the Center for International Education (662) 985-5476. The Center accepts applications for the fall term from October 1st - November 30th. Review of applications by the Department begins the first week of September.

Department Deadlines
The Advanced Standing and Summer Block program application deadline is March 1 for the following fall semester. The full-time and part-time program application deadline is the second Friday in April for the following fall semester. The University application deadline for graduate programs is the third Friday in April for the following fall semester.

Admission Requirements
To be admitted on a full-time or part-time basis to the Master of Social Work program, applicants must meet the following criteria:
1. Hold a Bachelor's degree that is grounded in liberal arts, from a university or college of recognized standing and be eligible for admission to graduate standing at CSULB.
2. Demonstrate satisfactory academic achievement as evidenced by a cumulative undergraduate GPA of 2.50 or above on a 4.0 scale for the last 60 units of course work attempted and/or completed toward degree requirements.
3. Completion of a prerequisite course in elementary statistics.
4. Completion of the Department's application which requires inclusion of:
   - three reference letters (academic and professional)
   - a summary of volunteer experience, work experience, and educational background
   - a personal statement
   - an official copy of all college/university transcripts.
Applications that do not contain the above materials are considered to be incomplete, and will not be assessed for admissions decisions. Moreover, applications must be fully packaged by the applicant when submitted.

5. Pre-admission interviews may be required by the Department faculty.

Field Education

The fieldwork sequence has an integral role in the MSW curriculum. The experience offers an opportunity for students to integrate and apply theoretical knowledge and social work practice and intervention skills in a community agency setting under the supervision of a qualified field instructor. A variety of agencies within the surrounding counties are utilized, reflecting the diverse settings in which social workers are employed. University field faculty select the most appropriate field placement site for students.

Each student has two fieldwork placements and concurrent courses in practice courses during the course of study. Each placement involves 500 hours of fieldwork in a community agency setting and attendance and participation in a fieldwork seminar that meets weekly on campus. The fieldwork sequence encompasses a total of 1000 hours, for which 12 units of academic credit are given. Academic year and summer block models of fieldwork placement are available. The academic year schedule, begins in September and continues through mid May. Students take concurrent coursework and a field seminar while enrolled in fieldwork and are currently in fieldwork two or three days (16 hours) per week. This must include either two 8-hour week days or one 8-hour weekday and two 4-hour blocks. A very limited number of agencies include evening hours, and no weekend placements are available. The summer block model of fieldwork occurs during the late spring and summer months, with students completing 36 hours per week in fieldwork while concurrently taking coursework and a field seminar on the remaining work day.

Students who are employed in social service agencies may request that their agency be evaluated as a site for the second year fieldwork only. The agency must be able to meet all criteria established by the Department of Social Work to insure the educational focus of fieldwork and provide a significant different experience. Evaluation of fieldwork sites and approval to utilize an agency of employment as a fieldwork site will be completed by the fieldwork faculty.

The Department of Social Work will reject an applicant or disqualify an enrolled student whose record of academic achievement or performance in field instruction does not meet the minimum standards of the profession.

Geriatric Social Work Education Consortium

The John A. Hartford Foundation awarded a 3 year grant to support the development of geriatric field practicum sites. The grant funded an alliance of all of the social work graduate schools and four geriatric service providers in the greater Los Angeles area. This consortium was created and sponsored by the Partners in Care Foundation with the goal of enhancing the quality of life for the elderly.

The program continues with new funding and stipends are provided to MSW students in the Older Adults and Families concentration. Information regarding this program is presented to students in the field orientation and applications are made available.

Inter-University Consortium

The IUC (Inter-University Consortium) is one of the specialized training programs in public child welfare available in the MSW program. The Inter-University Consortium/Department of Children and Family Services (IUC/DCFS) Training Project is a collaborative endeavor between the Los Angeles County DCFS and the graduate programs of social work at CSULB, UCLA, USC, CSULA, CSUN and CSUDH.

The overall goal of this collaborative project is to increase the professional skills and knowledge of Los Angeles County public child welfare workers.

The IUC project at CSULB is designed to prepare social work student interns in the most innovative and current programs at Lakewood DCFS Office. It is our intention at CSULB, to prepare future leaders in public child welfare. Our approach is founded on the Social Ecology Model, the California Redesign and the objectives of AB106. Students will experience (parallel process with their assigned cases) moving from entry to exit through child welfare services. CSULB's innovative project emphasizes the front end of child welfare services, working effectively with children and families in their communities to achieve safety, well-being and families to last a lifetime. CSULB's IUC/DCFS Project also offers student interns a unique and valuable opportunity to learn and practice the Kinship Caregiver's Model and to co-lead a children's group in a community public school as part of our emphasis in working with children and families in their community.

Title IV-E stipends are available for (1) year for students enrolled in the full-time 2 year or part-time, other than summer block, or advanced standing model of the MSW Program. Students may apply for either the first or second year of field placement.

Students who work at DCFS or are currently (or have been) CalSWEC students are not eligible. Interested candidates must complete an application process.

Students accepted into the program must:
- Bo enrolled in the MSW Program
- Bo enrolled in the Children, Youth and Families concentration
- Sign a contract committing themselves to one year full-time paid employment following graduation with Los Angeles County Department of Children and Family Services.
- Have a valid driver's license, current automobile insurance, and secure the use of a car as required by fieldwork
- Complete pre-screening for county employment including live scan and DCFS physical and psychological examinations
- Complete one year of fieldwork in the IUC/DCFS placement
- Complete the designated specialty child welfare curriculum which includes:
  - SW 643 – Social Work Practice within Child Welfare Services
  - SW 698/698A – MSW Thesis or Project (IUC Students' theses must focus on a child welfare problem or issue)
  - Complete designated specialized training seminars
  - Complete and graduate from the MSW Program at CSULB within the required timelines established for each program model

Students are responsible for payback of the stipend if they are unable to successfully complete any of the requirements of the program.
CalSWEC MSW Program

The California Social Work Education Center (CalSWEC) is a partnership between the schools of social work, public human service agencies, and other related professional organizations that facilitates the integration of education and practice to assure effective, culturally competent services designed to serve the people of California.

CalSWEC Child Welfare

The CalSWEC Child Welfare program is for graduate students who are interested in pursuing a social work career in the child welfare field. This program is only available to students admitted into the Children, Youth and Family Concentration of the MSW program. Interested candidates must complete an application process.

Full-Time CalSWEC Program

The IV-E stipends provide for two (2) years of support for students enrolled in the full-time model of the MSW program. The student signs a contract to secure full-time employment in a public child welfare agency for two (2) years post graduation but is expected to remain in public child welfare employment for longer than this minimum period.

Once accepted into the program students must undergo pre-screening for county employment including fingerprinting and participation in the criminal clearance process.

Part-Time CalSWEC Program

Students eligible to apply for the part-time CalSWEC program must be employees of the State or County Social Services department that provides the child welfare or assistance benefits eligibility functions. All part-time applicants must provide a letter of support from their agency administrator/director. Financial support for admitted students will include: full tuition and fees, book costs and a travel allowance.

Students participating in the program sign a contract to render one year of full-time employment in their home public child welfare agency for each year of IV-E education support.

Requirements

Students participating in the program must meet all of the following criteria:

- Complete and graduate from the MSW program in the Children, Youth and Families Concentration
- Maintain a "B" (3.0) average
- Have a valid driver's license, current automobile insurance, and secure the use of a car as required by fieldwork
- Complete a thesis or project with a focus on Child Welfare population, issue area or service delivery system
- Take all of the required classes, including child welfare field internship placement, child welfare elective and participation in selected workshops or annual seminars on issues related to child welfare
- Students must reimburse CalSWEC if they are unable to successfully complete any of the program requirements

CalSWEC Mental Health Program

The CalSWEC Mental Health stipend program is for graduate students who are interested in pursuing a social work career in the mental health field and are willing to make a commitment to work full-time in a California county mental health agency or a county contracted agency after they have received their MSW degree. Interested candidates must complete an application process.

Requirements

Students participating in the program must meet all of the following criteria:

- Sign a contract to work full-time in a California county mental health agency or a county contracted agency for a minimum of one year immediately after graduation
- Complete and graduate from the MSW program at CSULB within the required timelines established for each program model
- Take all of the required classes, including mental health field internship placements, the approved mental health elective, and participation in selected workshops or annual seminars on issues related to mental health and research
- Complete a thesis or project focused on a mental health topic that is concentration specific (either OAF or CYF)
- Maintain a "B" (3.0) average
- Receive a security clearance/level scan to work in a California county mental health agency or a county contracted agency
- Students must reimburse CalSWEC if they are unable to successfully complete any of the program requirements

Pupil Personnel Services Credential with Specialization in School Social Work and Child Welfare and Attendance (code 803)

The California Commission on Teacher Credentialing issues the Pupil Personnel Services (PPSC) Credential. The Department of Social Work, College of Health and Human Services, offers the combined School Social Work and Child Welfare and Attendance Specialization of the PPSC Credential within the context of the Master of Social Work (MSW) degree.

The PPSC Credential in School Social Work and Child Welfare and Attendance authorizes the holder to be employed in the State of California as a School Social Worker and/or a Child Welfare and Attendance Specialist. The credential covers pre-kindergarten through 12th grade in public and other schools requiring the credential. Individuals with the credential in School Social Work and Child Welfare and Attendance are pupil advocates and provide prevention and intervention strategies that remove barriers to learning. These professionals, in partnership with other educators, parents and the community, maintain high expectations for all pupils, facilitate pupils reaching their highest potential, foster optimum teaching and learning conditions, and prevent school failure. School Social Work is defined as the application of social work principles and objectives to help fulfill the major purpose of the educational system: to provide a setting for teaching and learning in which all children can prepare themselves for the world they now live in, and the world they will face in the future.

Child Welfare and Attendance Specialists provide assessment and intervention around issues of attendance for pupils.
Requirements

1. Successful completion of all of the requirements for the 60 unit Master of Social Work (MSW) degree within the Children, Youth and Families Concentration. Required coursework will be completed in the following sequence areas: Fieldwork, Human Behavior and the Social Environment, Social Work Policy, Social Work Practice, and Social Work Research;

2. Completion of SW 665, School Social Work as one of the required electives within the 60 unit MSW program, taken either prior to or concurrently with school social work fieldwork placement;

3. Successful completion of required School Social Work PPSSC Seminar series presenting specialized topics;

4. Demonstrated knowledge in the following areas of pupil personnel services, as defined in the Commission on Teacher Credentialing Standards: Knowledge of techniques for facilitating individual growth and development to achieve academic success; Knowledge of the wide variety of socio-cultural influences that affect pupils in a school setting; Knowledge of human assessment; Knowledge of problem prevention and early intervention; Knowledge of consultation services; Knowledge of learning theory and psychological education; Knowledge of coordination and development of services; Knowledge of legal entitlements and constraints; Knowledge of referral and utilization of services; Knowledge of human assessment as direct services to pupils, Knowledge of social interventions; Knowledge of consultation coordination and development of services; Knowledge of referrals, utilization, involvement and use of community resources; Knowledge of social research and services based on research; Knowledge of the code of professional ethics; Knowledge of attendance laws and the rights of minors; Knowledge of skills using attendance laws and assessment skills.

5. Successful completion of 600 clock hours of field practice in the second year of field, demonstrating all of the required skills and knowledge areas, in an approved PPSSC site, under the supervision of an experienced MSW level practitioner who holds a PSWS Credential in school social work. Supervised hours of field practice will include at least 100 hours in each of two settings (elementary, middle and/or high school), and experience in service delivery with populations representing ethnic diversity and will cover both school social work and child welfare and attendance competencies and standards.

6. Completion of required application and forms from California Commission on Teacher Credentialing, including fingerprints, and a Certificate of Clearance;

7. Completion of required health screenings;

8. Successful performance on C-BEST Examination;

9. Certification of program completion and demonstrated competence by the PPSSC Program Coordinator, Department of Social Work.

10. Completion of all required forms and procedures of the Credential Processing Center, CSULB.

Advancement to Candidacy

A conditionally classified or fully classified student must maintain a minimum GPA of 3.0 on all courses taken subsequent to admission. In addition, a GPA of 3.0 must be maintained in all courses required for the degree. A student will be eligible for advancement to candidacy for the degree after successfully completing 6 units of graduate level courses in Social Work.

All students must demonstrate competency in writing skills. Students must attempt to fulfill the Graduation Writing Assessment Requirement (GWAR) in the first semester of residence in the MSW program or score at least a “4” on the GRE Writing Assessment. Either the GWAR or the GRE Writing Assessment must be passed to advance to candidacy.

Course Load

The California State University, Long Beach requirement for full-time status as a graduate student is 9 weighted units. Part-time students pursuing the M.S.W. degree must take at least 4 semesters of at least 3 courses or 9 units. Students who wish to complete the M.S.W. degree in 2 years must take an overload of 6 units for 4 semesters or 15 units a semester.

Requirements

The Master of Social Work program requires the completion of 60 semester units. Fifty-four units of required courses and 6 units of scheduled departmental electives must be taken to complete a concentration. In the CYF concentration, 57 units of required courses and 3 units of scheduled departmental electives must be taken by IUC, Cal SMEC and PPSSC credential students. The program is taken in one of the four following sequences:

Plan A: (two years)

Term 1 – SW 500, 503A, 505, 594A, 596A (Fall)
Term 2 – SW 500 or 601, 592, 594B, 596B, 503B (Spring)
Term 3 – SW 660 or 661, 680A, 693, 698A, 500/600 level elective (Fall)
Term 4 – SW 670, 680B, 681 or 682, 699A, 500/600 level elective; (Spring)

Plan B: Advanced Standing

Summer Bridge Module includes:
Fieldwork – 16 hours per week for 10 weeks plus 2 hours of seminar per week.
Fieldwork Internship – 100 hours total.
Human Behavior – 30 hours
Social Policy – 14 hours
Research – 36 hours
Practice – 52.5 hours
Technology – 14 hours

Second Year Coursework

Fall
SW 660/661 – Practice Individuals/Families
SW 680A – Field Seminar III
SW 693 – Community Projects II
SW 698A – Thesis or Project I
SW 500/600 – Social Work Elective

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Spring
SW 670 – Administrative Practice
SW 680B – Field Seminar IV
SW 652 – Advanced Policy
SW 699A – Thesis or Project II
SW 500600 – Social Work Elective

Plan C: (three years)
Term 1 – SW 503A, 505; (Fall)
Term 2 – SW 503A, 505, 501/600 level elective; (Spring)
Term 3 – SW 693, 594A, (Summer)
Term 4 – SW 596A, 501; (Fall)
Term 5 – SW 598B, 560 or 561, 594B (Spring)
Term 6 – SW 598A, 500/600 level elective; (Summer)
Term 7 – SW 598A, 560 or 561, 599A; (Fall)
Term 8 – SW 680B, 670, 681 or 682; (Spring)

Courses (S/W)

LOWER DIVISION

220. Introduction to Social Welfare (3)
Prerequisites: Completion of GE foundation requirements.
Offers an understanding of social welfare, and the knowledge, values, and skills essential to social work practice. It examines historical and philosophical perspectives including cultural, economic, political, and social forces.

221. Introduction to Social Welfare Practicum (3)
Prerequisite: Consent of instructor; Corequisite: SW 220.
Lecture classes and visiting and observing approved social service agencies and allied activities.
Open to social work majors only. Credit/No Credit grading only.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students must formal prerequisites and/or competency equivalent for advanced study.

330. Human Behavior and Social Environment: Birth through Adolescence (3)
Prerequisites: Completion of GE Foundation requirements.
Multi-dimensional development from conception through adolescence is explored by examining expectations, resources and barriers presented by mainstream society. Influences of culture, ethnicity, family systems, socioeconomic status, sexism and racism are assessed for their impact on healthy child development.
Letter grade only (A-F).

331. Human Behavior and Social Environment: Young Adulthood through Old Age (3)
Prerequisites: Completion of GE Foundation requirements.
Multi-dimensional development in adulthood is explored by examining expectations, resources and barriers presented by mainstream society. Influences of culture, ethnicity, family systems, socioeconomic status, sexism and racism are assessed for their impact on healthy adult development.
Letter grade only (A-F).

340. Generalist Social Work Practice (3)
Prerequisites: SW 220, 221, 330, 350. Corequisite: SW 341.
Social work practice as a helping process with all time systems. Social work knowledge, ethics, values, principles, professional relationships, interviewing and beginning assessment and intervention phases are examined. The activities of the social worker in resolution of psychosocial problems.
Open to social work majors only. Letter grade only (A-F).

341. Social Work Practicum (3)
Corequisite: SW 331, 340, and 351. Supervised practicum in an applied social service agency or allied setting for a minimum of 90 hours (3 hours per week for 10 weeks).
Social work field practice includes interviewing, assessment, and intervention activities.
Credit/No Credit grading only. Open to social work majors only. Not open for credit to students with credit in SW 340A.

350. Social Policy: Law and Court Decisions (3)
Prerequisites: Completion of GE Foundation requirements.
Social policy as defined in legislation and judicial decisions affecting the rights of individual families, minorities, and the general welfare.
Letter grade only (A-F).

351. Social Policy: Formulation and Analysis (3)
Prerequisites: Completion of GE Foundation requirements.
Policy formulation and analysis related to social welfare institutions and major social welfare policies and programs. Current issues and issues in social welfare policy.
Letter grade only (A-F).

405A. Applications of Social Work with Older Adults (3)
Prerequisite: Consent of instructor and upper division status.
Provides an intergenerational service learning experience. Students learn about the bio-psycho-social dimensions of the aging process and group work. This knowledge is applied by students when they co-facilitate weekly discussion support groups with older adults in independent living communities.
Letter grade only (A-F).

405B. Applications of Social Work with Older Adults (3)
Prerequisite: Consent of instructor and upper division status.
Advanced group work with older adults in independent living communities. Students will co-facilitate weekly discussion support groups applying bio-psycho social theories. Course can be a continuation of SW 405A, or may be taken separately.
Letter grade only (A-F).

440. Generalist Social Work Practice with Groups (3)
Prerequisites: SW 331, 340, 341. Corequisite: SW 495A.
Adaptation of generalist frameworks of social work practice to generalist group approaches. Analysis of dynamics, theories, and principles underlying group practice. Programs, practice techniques, and roles involved with groups.
Open to social work majors only. Letter grade only (A-F).

441. Generalist Social Work Practice with Communities and Institutions (3)
Prerequisites: SW 331, 340, 341, 351. Corequisite: SW 495B.
Adaptation of generalist frameworks of social work practice to generalist approaches to community and institutional applications. Analysis of theories and principles underlying community practice. Adaptation of theories and activities to organizational contexts. Techniques and activities applicable to communities and neighborhoods.
Open to social work majors only. Letter grade only (A-F).

442. Generalist Social Work Practice with Individuals and Families (3)
Prerequisites: SW 331, 340, 341. Corequisite: SW 495A.
Adaptation of generalist frameworks of social work practice to generalist practice with individuals and families. Theories, techniques, activities, and role of social workers; differential approaches to study, assessment, intervention, and helping processes.
Open to social work majors only. Letter grade only (A-F).
Prerequisites: SW 440 and 442 and one course in elementary
statistics. Corequisite: SW 441, 465 and 495B.
Introduction to research methods in social work with an emphasis
on the evaluation of social work interventions and agency
programs.
Open to social work majors only. Letter grade only (A-F).

490. Special Topics in Social Work (1-4)
Topics of special interest in social work for intensive study.
Topics will be announced in the Schedule of Classes. May be
repeated to a maximum of 4 units with different topics. Open to
social work majors only. Letter grade only (A-F).

495A. Field Experience in Social Work (7)
Prerequisites: SW 330, 331, 340, 341, 350, 351. Corequisite: SW
449 and SW 449G.
Open to senior social work majors only. First of two semesters with
supervised practice in social work agency.
Two hours weekly field seminar on campus and 16 hours in
internship. Credit/No Credit grading only.

495B. Field Experience in Social Work (7)
Prerequisites: SW 442 and 495A. Corequisite: Enrollment in two of
the following: SW 440, 441, and 445.
Open to senior social work majors only. Second of two semesters with
supervised practice in social work agency.
Two hours weekly field seminar on campus and 16 hours in
internship. Credit/No Credit grading only.

499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study of special topics under supervision of a faculty
member.
Open to social work majors only. Letter grade only (A-F).

GRADUATE LEVEL

560. Foundations for Generalist and Multicultural Social
Work Practice (3)
Prerequisites: SW 595A or 595C.
Provides knowledge and skills for generalist, multicultural
practice with all size systems, from ecological perspective.
Implementation of principles, ethics, values, professional
relationships, interviewing/communication skills and tasks of the
initial, assessment and intervention phases, including examining
multicultural differences and adaptations.
Letter grade only (A-F).

503A. Human Behavior and Environment in
Multicultural Perspectives: Focus on Prenatal through
Adolescence (3)
Reviews key theoretical frameworks (including psychodynamic,
bio-psycho-social, cognitive, systems, learning and role theories)
for their clinical application to assessment, diagnosis and treatment
of children and families. Focus is on the impact of poverty and socio-
cultural factors in child development.
Letter grade only (A-F).

503B. Human Behavior and Environment in
Multicultural Perspectives: Focus on Young Adulthood
Through Old Age (3)
Prerequisite: SW 503A.
Reviews key theoretical frameworks (including psychodynamic,
bio-psycho-social, cognitive, systems, learning and role theories)
for clinical application to assessment, diagnosis and treatment of
adults and families. Focus is on the impact of poverty and socio-
cultural factors in adult development.
Letter grade only (A-F).

505. Oppressed Groups: Social Policy Analysis (3)
Analyzes the historical, economic and political factors underlying the
United States social welfare system. The impact of current policies on
oppressed groups will be examined.
Letter grade only (A-F).

560. Direct Intervention with Individuals and Families:
Focus on Children, Youth and Families (3)
Prerequisites: SW 500, and 596A or 596C. Corequisite: SW 598B or
598D.
Focuses on practice related to interpersonal interaction with
children, youth, family and adults. Emphasizes implementation of
psychosocial study, assessment and intervention from multicultural
perspectives. Cognitive-behavioral, family systems, psychosocial and
crisis intervention/brief therapy approaches are examined using an
ecological framework.
Letter grade only (A-F).

561. Direct Intervention with Individuals and Families:
Focus on Older Adults (3)
Prerequisites: SW 500, and 596A. Corequisite: SW 598U
Examination of varied practice strategies in depth. Behaviorist,
cognitive, humanistic, psychosocial and psychodynamic models
viewed in relation to the ecological systems and multicultural
perspectives. Focuses on assessment through termination phases of
the helping process.
Letter grade only (A-F).

569. Disability, Culture and Society: Issues and
Intervention (3)
Prerequisites: Senior or graduate status.
Explores disability as a social construct. Examines policies and
practices to understand the experience of disability. Includes historical
and contemporary perspectives as well as future issues. Emphasis
on social and clinical intervention methods as well as programs and
resources.
Letter grade only (A-F). Same course as GERN 569 and REC 569.
Not open for credit to students with credit in GERN 569 and REC 569.

590. Special Topics (3)
Prerequisite: Consent of instructor.
Content may vary from semester to semester.
Letter grade only (A-F). Topics will be announced in the Schedule of
Classes. May be repeated to a maximum of 6 units for majors and 9
units for non-majors with different topics.

591. Diagnosis and Treatment in Clinical Practice with
Older Adults (3)
Prerequisites: Graduate status.
Introduces the theory and application of clinical interventions with
older adults. Within the eco-systems framework and multicultural
perspective, emphasis is placed on understanding late-life problems
and mental disorders, on developing skills in assessment and
diagnosis, and treatment.
Letter grade only (A-F).

592. Community Projects I (3)
Acquisition and application of macro practice skills to community
problems. Includes history and methods, relationship between
professional values and ethical dimensions of community practice,
socio-political determinants of community problems, macro practice
theory and models. Implications for culturally diverse, impoverished
communities.
Letter grade only (A-F).

594A. Research Methods in Social Work I (3)
An introduction to research methods, including conceptualization
of research problems, designs, sampling, measurement, and data
collection. The emphasis is on building skills for conducting
multiculturally focused research and evaluating findings critically.
Not open for credit to students with credit in SW 594. Letter grade
only (A-F).

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594B. Research Methods in Social Work II (3)
Prerequisite: SW 594A.
Continuation of research methods, including qualitative and quantitative data analysis, program evaluation, grant writing, and preparation of reports for dissemination. There are continued emphases on the ability to conduct multiculturally focused research and evaluate findings critically.
Not open to credit to students with credit in SW 550. Letter grade only (A-F).

596A. Field Instruction I (3)
Corequisite: SW 500.
First of two semesters with supervised practice in social work agency. Develops basic skills with individuals, families, and communities. Emphasizes multi-cultural practice. Two hours per week field seminar on campus and 16 hours in agency placement.
Credit/No Credit grading only.

596B. Field Instruction II (3)
Prerequisites: SW 500, and 596A or 596C. Corequisite: SW 560 or 561.
Second of two semesters with supervised practice in social work agency. Develops basic skills with individuals, families, and communities. Emphasizes multi-cultural practice. Two hours weekly field seminar on campus and 16 hours in agency placement.
Credit/No Credit grading only.

596C. Field Instruction I (3)
Corequisite: SW 500.
First of two semesters with supervised practice in social work agency. Develops basic skills with individuals, families, groups, and communities. Emphasizes multi-cultural practice. Two hours weekly field seminar on campus and 36 hours in internship.
Credit/No Credit grading only.

596D. Field Instruction II (3)
Prerequisites: SW 500, and 596A or 596C. Corequisite: SW 560 or 561.
Second of two semesters with supervised practice in social work agency. Develops basic skills with individuals, families, groups, and communities. Emphasizes multi-cultural practice. Two hours weekly field seminar on campus and 36 hours in internship.
Credit/No Credit grading only.

599. Independent Study (1-3)
Prerequisites: Consent of Department and instructor.
Independent study of special topics under supervision of a faculty member.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

642. Mental Health and the Older Adult: A Multi-Cultural Perspective (3)
Focuses on a broad-based selection of demographic, psychological, and social issues concerned with the older person and their families. Topics will be described and analyzed from preventive, clinical, and cross-cultural perspectives.
Letter grade only (A-F).

643. Social Work Practice within Child Welfare Services (3)
Prerequisite: SW 503A.
Child protective policies and practices, including adoption, family preservation, family foster care, kinship care, groups/residential care, independent living risk assessment. Accomplishments and controversies in service delivery, integrating multi-cultural practice and federally mandated outcomes related to child safety, well-being and permanency.
Letter grade only (A-F).

660. Direct Intervention with Groups: Focus on Children Youth and Families (3)
Prerequisites: SW 560, Corequisites: SW 680A or 680C.
Teaching of advanced specialized skills needed to work with groups, emphasizing work with children, youth, and families. Focuses on clinical work with groups with special emphasis on eco-systems and multi-cultural perspectives.
Letter grade only (A-F).

661. Direct Intervention with Groups: Focus on Older Adults (3)
Prerequisites: SW 561. Corequisite: SW 680A.
Teaching of advanced specialized skills needed to work with groups, emphasizing work with older adults and families. Focuses on clinical work with groups with special emphasis on eco-systems and multi-cultural perspectives.
Letter grade only (A-F).

662. Legal Issues in Social Work Practice (3)
Legal aspects concerning children, the family, and aged, abortion and illegitimacy issues, rights to treatment, mental health commitment procedures, rights of the elderly, children’s rights, marriage, and divorce are covered. Legal research and resources, legal reasoning, and understanding of court systems.
Letter grade only (A-F).

663. Assessment and Treatment of Alcoholism and Substance Abuse (3)
Awareness of prevalence of alcoholism and drug abuse and significance for clinical social work practice. Dynamics and treatment issues will be explored.
Letter grade only (A-F).

665. School Social Work (3)
Social work practice in school-community-pupil relations. Attention to the school as a social institution. Services in schools as a specialized field of social work practice: models of practice, social work roles, and target groups of children.
Letter grade only (A-F).

670. Social Work Administration (3)
Prerequisites: SW 500, 560 or 561; 596A or C, 596B or D, 650 or 661. Corequisite: 680B or 680D.
Examines foundation for organizational leadership and problem solving, using theories of organizational behavior and management. Frameworks for governance, planning, monitoring, information management, human resources, fiscal responsibility, quality assurance, and community relations. Integration of multi-cultural and gender issues.
Letter grade only (A-F).

674. Clinical Diagnosis and Therapeutic Communication (3)
Reviews the major theoretical approaches to social work treatment to teach specific clinical interventions. Students are trained to skillfully and therapeutically intervene with a variety of diagnostic categories. Outcome research will be reviewed and evaluated.
Letter grade only (A-F).

677. Social Work Practice in Mental Health (3)
Reviews the changing roles of social work in mental health, the influence of new psychosocial theories on the treatment of clients. Focus on social, economic and cultural factors as they affect social work in mental health.
Letter grade only (A-F).

680A. Field Instruction III (3)
Prerequisites: SW 500, 560 or 561, 596A/VC, 596B/VD. Corequisite: SW 660 or 561.
First of two semesters with supervised practice in social work agency. Focus on advanced direct practice skills and
administrative program development with emphasis on multi-cultural practice.

Two hours bi-weekly in field seminar and 16 hours in agency placement. Credit/No Credit grading only.

680B. Field Instruction IV (3)
Prerequisites: SW 500, 560 or 561, 596A/5, 596B/D, 680A/5, 560 or 661. Corequisite: SW 670.
Second of two semesters with supervised practice in social work agency. Focus on advanced direct practice skills and administrative program development emphasizing multi-cultural practice. Two hours bi-weekly field seminar and 16 hours agency placement. Preparation for entering professional employment. Credit/No Credit grading only.

680C. Field Instruction III (3)
Prerequisites: SW 500, 560 or 561, 596A/5, 596B/D. Corequisite: SW 660 or 661.
First of two semesters with supervised practice in social work agency. Focus on advanced direct practice skills and administrative program development with emphasis on multi-cultural practice. Two hours bi-weekly in field seminar and 36 hours in agency placement. Credit/No Credit grading only.

680D. Field Instruction IV (3)
Prerequisites: SW 500, 560 or 561, 596A/5, 596B/D, 680C, 680 or 661.
Second of two semesters with supervised practice in social work agency. Focus on advanced direct practice skills and administrative program development emphasizing multi-cultural practice. Two hours bi-weekly field seminar and 36 hours agency placement. Preparation for entering professional employment. Credit/No Credit grading only.

681. Advanced Policy and Political Action: Children, Youth and Families (3)
Prerequisites: SW 505.
Designed to provide students with an advanced understanding of key issues, concepts, and skills associated with policy analysis, the development of policy alternatives, and political action on behalf of families and children in contemporary American society. Letter grade only (A-F).

682. Advanced Policy Seminar: Older Adults and Families (3)
Prerequisite: SW 505.
Provides students with an advanced understanding of key issues, concepts, and skills associated with policy analysis, the development of policy alternatives, and political action on behalf of older adults and their families in contemporary American society. Letter grade only (A-F).

683. Brief Treatment (3)
Covers the methodologies used in brief and/or time-limited psychotherapy. Reviews the major forms of time-limited clinical treatment. Reviews the scientific and empirical research related to the use of brief treatment and the empirical research on this treatment approach. Letter grade only (A-F).

690. Special Topics in Graduate Social Work (3)
Prerequisites: Consent of Department.
Topics of special interest in social work selected for intensive study. Topics will be announced in the Schedule of Classes each semester. Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics.

691. Non-Violent Conflict Resolution: In Your Life, On the Job, With Your Clients, and Around the Planet (3)
Designed to help the social work student examine conflict and violence, their own and others' responses to conflict situations, on the intrapersonal, interpersonal and community levels, and to learn to deal with conflict in a productive, non-violent manner. Letter grade only (A-F).

693. Community Projects II (3)
Prerequisites: SW 592.
Integrates knowledge of cross-cultural practice, human behavior and research in identifying solutions to social problems. Builds on analysis from Community Projects I. Utilizing planning, program development and program implementation skills/techniques, students develop, implement and evaluate impact of a specific intervention. Letter grade only (A-F).

698A. Thesis or Project I (3)
Prerequisites: SW 594A, 594B. Completion of 30 MSW units with a minimum cumulative GPA of 3.0, and advancement to candidacy. Under the direction of the Thesis/Project Advisor, the student completes a thesis/proposal proposal, instruments and IRB protocol (if applicable), and drafts literature review. Letter grade only (A-F).

698B. Thesis or Project I (3)
Prerequisites: SW 594A, 594B. Completion of 30 MSW units with a minimum cumulative GPA of 3.0, and advancement to candidacy. Under the direction of the Thesis/Project Advisor, the student completes a thesis/proposal proposal, instruments and IRB protocol (if applicable), and drafts literature review. Letter grade only (A-F).

699A. Thesis or Project II (3)
Prerequisites: Completion of SW 698A or 698B.
Finalization of literature review and completion of remaining chapters (typically, introduction, methodology, results, discussion and implications) of thesis/project. Letter grade only (A-F).

699B. Thesis or Project II (3)
Prerequisites: Completion of SW 698B.
Finalization of literature review and completion of remaining chapters (typically, introduction, methodology, results, discussion and implications) of thesis/project. Letter grade only (A-F).

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Career Possibilities

Sociologist • Social Worker • Health Care Administrator • Community Organizer • School Counselor • Urban Planner • Personnel Manager • Statistician • Public Health Worker • College Student Service Worker • Lawyer • lobbyist • City Planning Aide • Adoption Counselor • Market Researcher • Employment Interviewer • Management Trainee (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction

The major in sociology is intended to serve as preparation for careers in teaching, delivery and administration of social and health services, urban and environmental studies, law, government service at local, state and federal levels and related occupations. The major also provides training for advanced graduate work in sociology, social work and other social sciences. Sociology is also recommended as a second major or minor for students of all other social sciences; for business; for the humanities; especially literature and theatre arts; for ethnic and area studies; for journalism and other various applied arts and sciences.

Sociology courses are suitable for fulfilling general education or elective requirements for students of other majors. However, lower division courses selected to fulfill the requirements of the major may not also be used to fulfill the requirements of any General Education category.

Undergraduate Programs

Bachelor of Arts in Sociology (code SOC_BA01) (120 units)

Requirements

Lower Division: Twelve units of lower division are required. Students must have credit for SOC 100, 142, 250, and 260. It is recommended that students take Cultural Anthropology (ANTH 120) as an elective.

Upper Division: All majors are required to have a minimum of 31 upper division units in sociology. This must include (1) at least 16 units in core courses: SOC 335 or 354, 356, 420 or 427, 355, 357; and (2) nine units in one concentration and (3) six units of electives from other upper division courses in sociology. Total credit for courses numbered 490 through 499 may not exceed twelve units. Completion of at least 51 semester units of college work is required before students will be accepted into upper division courses.

The department strongly recommends that lower division courses be completed before upper division courses. Taking the courses in sequential order will allow students to gain maximum benefit from the curriculum. Experience has shown that students who take courses out of sequence do not perform as well academically. SOC 260, Introduction to Data Analysis, and SOC 260, Elementary Statistics, should be taken before SOC 355, Methods of Social Research. Required upper division courses also should be taken in sequential order consecutively: SOC 356, Developmental Sociological Theory, should be taken before SOC 357, Modern Sociological Theory.

Concentrations

Deviance and Social Control
SOC 345, 354*, 423, 440, 440, 448, 463, 495

Interaction and Group Relations
SOC 320, 325 (or WOSS 325), 335*, 340 (or CHLS 350), 341, (or CHLS 352), 345, 346, 394*, 423, 426, 464, 492, 495; WOSS 401

Medical Sociology
SOC 350, 354*, 423, 462, 463, 464, 493, 495, 496; HIS 400

Research
Concentration currently not available

Social Change and Global Issues
SOC 346, 350, 354*, 410*, 420*, 427*, 430, 449, 494, 495; ANTH 307; IST 317 or IST 318; WOSS 401

*If not taken as one of the core courses

Honors in Sociology

Students may be admitted to Sociology Department Honors program (an option of the University Honors Program) when they have:

1. A minimum of three semesters remaining before graduation;
2. A minimum cumulative GPA of 3.2 overall and a minimum GPA of 3.5 in Sociology courses;
3. Completed the four lower division sociology courses required for the major (SOC 100, 142, 250, 260) or have junior standing and a minimum of four sociology courses;
4. Submitted an application with one letter of recommendation from a faculty member.

In order to graduate with Honors in Sociology a student must:
1. Complete all regular requirements for the major in Sociology;
2. Complete 3 units of an Honors Special Topics Seminar (SOC 487H) (or a course equivalent approved by the Department Honors advisor) and 6 units related to the Honors Thesis (SOC 488H Honors Research Seminar (3 units) and SOC 488H Honors Thesis (3 units) or an equivalent 6 units accepted by the Department Honors advisor). These 9 units required for Sociology Department Honors may be in addition to the general requirements for the major in sociology or may be counted as part of the concentration or elective units required for the regular Sociology B.A. degree. SOC 488 and SOC 488H are equivalent to UHP 496 and UHP 498;
3. Do one of the following: Present their own original research paper for a student research competition, present such a paper at a professional meeting, or write a research paper that the Department Honors Advisor agrees is of professional quality;
4. Serve as a Student Teaching Fellow (peer facilitator) for at least one undergraduate sociology course OR serve as a research intern under the supervision of a faculty member.

Sociology Department Honors Students are strongly encouraged to:
1. Join Alpha Kappa Delta, the International Sociology Honor Society;
2. Engage in service to the department or the discipline of sociology.

Minor in Sociology (code SOC_UM01)
A minimum of 24 units which must include:
Lower Division: SOC 100, 142
Upper Division: SOC 335 and a minimum of 15 units selected from other upper division courses in sociology.
Total credit for courses numbered 490 through 499 may not exceed 6 units.

Graduate Program

Master of Arts in Applied Sociology (code SOC_MA01)
The Master of Arts degree in Applied Sociology is designed to prepare graduates for careers in a variety of public and private organizations that require intellectual rigor and research-based decision-making and application. Specific expertise will include needs assessment and program evaluation, survey, statistical, secondary and qualitative data analysis applicable in local, national and international settings. The curriculum is designed to provide students with strong theoretical and methodological foundation with specialization in one of the two thematic concentrations: Sociology of Health and Medicine, or Community Development and Social Change. Courses focus on community development, health and illness, and the role of organizational structures and public policy in addressing contemporary social issues. Field work placements provide direct and practical experience with local public and private agencies addressing community health and social justice issues. The program also serves as an ideal foundation for further study for students wishing to pursue doctoral study in sociology or related disciplines.

The graduate coordinator serves as the general advisor for all entering graduate students. Upon admission, students will be assigned to a faculty mentor for advising and monitoring. Students can elect to keep this faculty member or, in consultation with the graduate coordinator, choose another faculty advisor. The faculty advisor is responsible for assisting students in writing a Plan of Study, which outlines how individual students will fulfill the requirements of the program. Faculty advisors will also assist the student in selecting her/his thesis committee (two additional faculty members).

Graduate thesis committees must be formed after completing a minimum of 12 units and before a maximum of 21 units.

Students are urged to become acquainted with the general requirements of the University and the specific requirements of the department listed in this Catalog. Important supplementary information about the steps leading to the master’s degree in sociology is contained in the Handbook for Graduate Students, which is available on the University website at http://www.csulb.edu/divisions/asa/projects/grad/handbook/

Admission Procedures
Consideration for admission requires submission of a program application and university application. Submit all program application materials to the Department of Sociology in one complete package.

Prerequisites
1. A Bachelor’s degree with a major in Sociology, or related degree, and have earned a 3.0 GPA in the last 60 units attempted.
2. Completion of a minimum of one upper-division sociological theory and research methods course equivalent to SOC 356, 357, 355.
3. Students whose undergraduate work is deficient in sociology will be required to complete appropriate prerequisite courses. Course deficiencies will be determined by the Department’s Graduate Committee after taking into account each student’s background and goals. Prerequisite courses will not count toward credit in the M.A.
4. Official scores from the Graduate Record Examination.
5. Official transcripts.
6. Three letters of recommendation, including at least two from individuals well acquainted with the applicant’s academic ability.
7. A 3-4 page personal statement describing the student’s qualifications and reasons for wanting to pursue an Applied Sociology M.A. at CSULB.
8. Experience in community organizations is helpful, but not required.

Program Requirements
All students must complete a minimum of thirty (30) units of upper division and graduate level courses, of which twenty-four (24) must be at the 500/600 graduate level. A student’s program is outlined in the Plan of Study that must be developed in consultation with a sociology faculty advisor within the first 12 units at CSULB.

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Course Requirements
1. Core Courses (3 courses, 9 units): SOC 696, 656 and 670
2. Concentration Area Courses (3 courses, 9 units) in one concentration area: Sociology of Health and Medicine; Community Development and Social Change. Applicable courses include SOC 540, 558, 562; HSC 528, 628; PPA 610, 660.
3. Applied Skill Cluster (2 courses, 8 units) Applicable courses include ANTH 560, HSC 500, HSC 503, PPA 670.
4. Internship (one course, 3 units): SOC 696.
5. Capstone Course (one course, 3 units): SOC 697 or 698.

Advance to Candidacy
1. Students must satisfy the general requirements of the University for advancement to candidacy.
2. In order to be recommended for advancement to candidacy, students must obtain the written approval of their major’s degree program course work by their committee chair and graduate advisor.
3. Students must file a written statement in the department-approved by the Faculty Advisor, indicating how the student plans to complete all remaining requirements for the degree. The statement will include the members of the thesis committee, and the date for completing the thesis or for taking the comprehensive examination.

Capstone Experience
All graduate students must complete one of the following options:
A. Comprehensive Examination in the areas of theory, applied research methods, and substantive issues in their concentration.
B. Thesis.
Students following the comprehensive examination option will earn 3 units of credit in SOC 697 and those writing a thesis will be granted 3 units of credit in SOC 698.

Courses (SOC)

LOWER DIVISION
100. Principles of Sociology (3)
Prerequisite: Completion of the G.E. Foundation, one Explorations course, and upper division standing.
This is an introductory course in social science with an emphasis on the sociological perspective as a tool for understanding social and cultural institutions, including the inter-personal, inter-group and global dimensions of social life.

142. Social Trends and Problems (3)
Prerequisite: Completion of the G.E. Foundation, one Explorations course, and upper division standing.
This is an introductory course in the study of social trends and problems in American institutions including social inequality, crime, health and illness, education, media, environment, and war and terrorism. Emphasis is on social problems as products of the socio-historical and global context.

UPPER DIVISION
3171. Problems in International Social Conflict (3)
Prerequisites: Completion of the G.E. Foundation, one Explorations course, and upper division standing.
This is an introductory course in social conflict and conflict resolution. This course is for students who are interested in the study of social conflict and resolution. The course is for students who are interested in the study of social conflict and resolution.

3181. Cases in International Social Conflict (3)
Prerequisite: Completion of the G.E. Foundation, one Explorations course, and upper division standing.
This is an introductory course in social conflict and resolution. This course is for students who are interested in the study of social conflict and resolution. The course is for students who are interested in the study of social conflict and resolution.

320. The Family (3)
Prerequisite: SOC 100 or consent of instructor.
Sociological study of the family in various cultures. Key theories and research methods used by sociologists to study family dynamics and change will be reviewed.

325. Sociology of Women (3)
A sociological analysis of the social, political, and economic status of women. Examines the history of women’s roles and status; gender conflicts and social movements; and societal attitudes towards women in society.

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335L. Social Psychology (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Examines the origins and development of the self through the socialization process. Emphasis is on the social influence of small groups (family, peers, reference groups and subcultures) and societal organization and institutions on identity, role behavior and attitudes.
Not available to students with credit in PSY 351.
340. The Latino Population in the United States (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of the comparative historical, transnational, cultural and socio-economic experiences (including class, gender, immigration and settlement patterns) of the various Latino subgroups in the United States.
Letter grade only (A-F). Same course as CHLS 350.
341. Central American and Caribbean Peoples in California (3)
Survey of the socio-economic conditions and cultural life of the Central American and Spanish-speaking Caribbean communities in California, such as Salvadorian, Guatemalan, Puerto Rican, and Cuban communities. Similarities and differences with the Mexican American community will be examined.
Same course as CHLS 352. Not open for credit to students with credit in CHLS 352.
342L. Criminology (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing.
Study of crime from a sociological perspective and the emerging interdisciplinary approaches to crime. Topics include definitions and measurement of crime, types of crimes and crime statistics, and social control issues involving the criminal justice system and crime prevention.
Not open for credit to students with credit in SOC 441L.
345. Juvenile Delinquency (3)
Study of juvenile delinquency from a sociological perspective. Topics include a historical examination of delinquency, major theories of delinquency, the social context of delinquency, the societal reaction, social policies involving the juvenile justice system and youth related social problems.
346. Race, Gender and Class (3)
Prerequisite: Completion of the G.L. Foundation.
Sociological examination of race/ethnicity, gender and class in the U.S. Examines the effect of ideology, social interactions and social institutions on the creation and maintenance of racial, gender and class inequality.
350. International Population Problems (3)
Prerequisite: Completion of GE Foundation requirements.
Overview of the basic demographic variables (fertility, mortality and migration) and methods (vital statistics and censuses) to the study of international population problems. Examines the historical and current trends and problems in world population composition, growth and movement.
354. Qualitative Methods of Social Research (4)
Prerequisites: SOC 100, 250, and one upper division course in sociology.
Review and critique of principles and essential features of classical and contemporary qualitative studies. Topics include research design, modes of participant observation, sampling and interview techniques, analysis and interpretation of data. Field assignments and individual research projects are required.
(Lecture 5 hours, laboratory 2 hours.)
355. Quantitative Methods of Social Research (4)
Prerequisites: SOC 100, 250, 260 and one upper division course in sociology.
Review of social research methods with emphasis on research design, including operationalization, measurement, scaling, reliability, validity and sampling. Techniques of data collection and analysis. Individual student research projects are required.
(Lecture 3 hours, laboratory 2 hours) Letter grade only (A-F).
356. Development of Sociological Theory (3)
Prerequisites: SOC 100.
Social thought and historical forces leading to the emergence of sociology and an exploration of classical theories into the 1950s including such thinkers as Marx, Durkheim, Weber, Mead and Merton.
357. Modern Sociological Theory (3)
Prerequisites: SOC 100, 356 and one other upper division course in sociology. Recommended: courses in the philosophy of science and research methods.
Critical review of sociological thought from the 1930's to the present. Major schools such as functionalism, interactionism, conflict, exchange, and systems theory will be covered in depth and considered in relation to the nature of theory construction.
Not open for credit to students with credit in SOC 456. Letter grade only (A-F).
358L. The Sociology of Migration and Immigration (3)
Prerequisites: Completion of GE Foundation requirements and upper-division standing.
Focuses on historical and contemporary immigration to the United States. Examines causes and consequences of immigration; forces and events that propel migrants to move; patterns of economic adaptation and political incorporation; role of social institutions in immigrant adaptation, and the process by which immigrants become ethnics.
Letter grade only (A-F).
410L. Environmental Sociology (3)
Prerequisites: Completion of GE Foundation requirements, one or more Exploration courses, and upper-division standing.
Studies society's relationships with nature, including both cultural and structural dimensions. Integrates anthropological studies of pre-modern societies, together with cultural geography's emphasis on the meanings of place and environmental studies' contributions.
Letter grade only (A-F).
426. Social Stratification (3)
Prerequisite: SOC 100.
Examines the sociological approaches and theories of stratification and inequality. Emphasis is on how social class affects opportunity structures, income, social mobility and life chances. Analyzes the causes and consequences of economic, political and social inequality.
423. Child Abuse and Prevention (3)
Examines child abuse as a social problem: its history and causal factors, including social processes and changing family patterns. Emphasis is on social interventions and policy implications, including the role of concerned citizens and child advocates.
Not open for credit to students with credit in SW 423. (Discussion/ Seminar).
426. Sociology Sex Behavior (3)
Analyzes the social context of human sexuality, including the effects of socialization, social class, race/ethnicity, as well as occupation and religion on sexual attitudes and behavior.
427. Social Order and Social Change (3)
Prerequisite: SOC 100 and upper division status.
Sociological analysis of social order and change from a historical and contemporary perspective. Emphasizes is on the interactions between social movements, politics, economics and culture in explaining the differential patterns of change.

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430. Sociology of Globalization (3)
Prerequisites: SOC 100 and upper division standing.
Sociological examination of globalization. Themes include emergence of the global order, ideology and power, democracy, capital and labor mobility, technology, environment, inequality, culture, and the reactions to globalization.
Course may include a service learning component. Letter grade only (A-F).

440. Sociology of Deviance (3)
Prerequisite: SOC 100.
Study of deviance from a sociological perspective. Focuses on the role of social institutions that define, shape and maintain definitions and perceptions of deviance. Topics include theories of deviance, including micro-level processes that shape behaviors and attitudes.
(Lecture 3 hours.)

445. Impersonality, Violence and Survival: An Analysis Through Film (3)
Exploration through films of the societal conditions that facilitate impersonality, alienation and ultimately violence in modern society. Examines the struggle of the individual to survive, physically and psychologically in modern society and individual attempts to transcend social barriers.
Not open for credit to students with credit in this subject under SOC 490. (Discussion)

449. Political Sociology (3)
Prerequisite: Completion of GE Foundation requirements.
Contributions of sociology to the study of political institutions and political relations, including analysis of political aspects of social systems, social context of action, social bases of power, citizenship rights, and the effects of globalization on political processes.
Letter grade only (A-F).

462. Medical Sociology (3)
Prerequisite: Completion of the GE Foundation.
Epidemiological and sociological approaches to health and illness; patterns of physical and mental disease; patient and physician perspectives; causes of stress and coping; health care delivery and utilization; interactions of physician, nurse, therapist, health administrator, social worker, patient, and family.

463. Mental Illness and Society (3)
Prerequisite: SOC 100.
Epidemiological and sociological approaches to mental health and illness; prevalence and incidence of mental disorder; effects of family history, work experience and life change events; social and legal status of the mental patient; governmental and organizational role in mental illness.

464. Aging and Society (3)
Prerequisites: SOC 100 or 142.
Examines the impact of the aging population upon society and the effects of the social defined experience of aging upon the individual. Analysis of the relationship between age and such variables as gender, race/ethnicity, class, marital and health status.

468. AIDS and Society (3)
Prerequisites: Completion of GE Foundation requirements. Recommended: BIOL 100 or 200 or MIRC 101 or MIRC 300.
Examines behavioral aspects and societal impact of the AIDS epidemic. Covers structural barriers such as poverty, sexism, and racism in HIV/AIDS prevention and treatment. Examines sexual identities, gender, race, culture and class. Emphasizes gender roles and gender power relations.
Letter grade only (A-F).

470. Science and Religion In Biography (3)
Prerequisites: ENGL 100 and consent of instructor.
Comparison of theories, doctrines and methodologies of religions and quasi-religions in contrast to the natural, social and behavioral sciences. Sources of bias in different methods of inquiry (scientific, humanistic and religious) will be examined through classical and contemporary case material.
Letter grade only (A-F).

487H. Honors Special Topics Seminar (3)
Prerequisite: SOC 356 and admission to Sociology Honors Program or consent of the instructor.
Contemporary sociological topic, chosen by instructor. Course covers topic's emergence, growth, relevant studies, debates, conclusions and remaining questions. Students will investigate one idea using recognized sociological research methods, and present their research projects to each other for feedback and critique.
Letter grade only (A-F). May be repeated to a maximum of 12 units, with different topics in different semesters.

488H. Honors Research Seminar (3)
Prerequisites: SOC 333 and admission to the Sociology Honors Program or consent of instructor.
Foundational research processes for the Honors Thesis. Includes literature review, hypothesis formulation and/or guiding ideas, and data collection. Group discussion of readings in social science research strategies, writing techniques, ethics, publication and related issues.
Letter grade only (A-F).

489H. Honors Thesis (3)
Prerequisites: SOC 356, 488H and admission to the Sociology Honors Program or consent of instructor.
Continuation of independent student research project begun in SOC 488H, Honors Research. Students meet periodically with their thesis advisor and with other honors students to discuss their work and will present their completed research in a public forum.
Letter grade only (A-F).

490. Special Topics in Sociology (1-3)
Topics of special interest in sociology selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

492. Special Topics in Interaction and Group Relations (3)
Topics of special interest in Interaction and Group Relations selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. (Discussion) Letter grade only (A-F).

493. Special Topics in Medical Sociology (3)
Topics of special interest in Medical Sociology selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. (Discussion) Letter grade only (A-F).

494. Special Topics in Social Change and Global Issues (3)
Topics of special interest in Social Change and Global Issues selected for intensive study. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics. (Discussion) Letter grade only (A-F).
495. Internship (1-4)
Prerequisites: SOC 100, 142, 335, junior or senior standing, consent of instructor.
Supervised field experience in public and private agencies allowing students to utilize sociological principles to community situations. Designed to provide career-related work experience in both research and applied fields. 1-4 units depending on field assignment and time required. May be repeated to a maximum of 6 units. (6-10 hours per week field experience.)

496. Field Practicum (1-3)
Prerequisites: SOC 495.
Continuation of SOC 495. Permits students who continue working at a community agency to conduct special projects for that agency. Includes class meetings to discuss student projects, papers, and evaluation activities for the agency. 1-3 units depending on field assignment.
May be repeated to a maximum of 4 units.

497. Peer Facilitation in Sociology (3)
Prerequisites: A grade of at least a "B" earned in at least one upper division course related to the peer facilitation activity and consent of instructor.
Conducting optional discussion sessions, assisting an instructor in class exercises, projects or small group discussions, or tutoring individual students. Peer facilitation activities will be guided by meetings with the supervising faculty member and supplemented by readings and writing assignments.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

499/J999. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study of special topics under the supervision of a faculty member.
May be repeated to a maximum of 4 units. In exceptional cases, may be repeated to a maximum of 6 units with consent of department.

GRADUATE LEVEL

540. Urban Sociology (3)
Prerequisites: SOC 350, 557 or consent of instructor.
The course examines the processes involved in shaping urban policies in large metropolitan areas. It does this by identifying the key urban problems of our day, the dominant political alliances that run most cities, and the means by which residents, community-based organizations, and unions can influence the policy making process.
Letter grade only (A-F).

599/J499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 4 units. In exceptional cases, to a maximum of 6 units with department consent. Undergraduates completing over 3 units of SOC 499 may not earn Letter grade only (A-F).

656. Seminar in Sociological Theory (3)
Prerequisites: SOC 356, 357 or equivalent or consent of instructor.
Seminar focuses on major issues, problems, positions and theorists defining and organizing sociological theory historically and today. Course designed to encourage theoretical application, emphasizing current and relevance and applicability of sociological theory.
Letter grade only (A-F).
Introduction

A major in Spanish is a treasured possession. A second major or a minor in Spanish opens many doors, but no matter what field a student plans to enter, be it health services, business, teaching, government, law, medicine, transportation, translation, engineering, or entertainment, a familiarity with Spanish will be invaluable. Bilingualism is almost an imperative in Southern California as well as in many other parts of our country.

In addition, the program provides preparation for those who plan to pursue doctoral work at other institutions. It also provides a liberal education for those who wish to expand their knowledge of the communication process and of Hispanic literature and cultures. The Spanish Program offers courses in language, linguistics, literature, culture and translation leading to the following degrees and certifications: Bachelor of Arts and Master of Arts degrees in Spanish, Single Subject Teaching Credential in Spanish, Concentration in Spanish for the Bachelor of Arts in Liberal Studies, minor in Spanish, Bilingual Concentration for B.A. in Liberal Studies, B.A. in Special Major and the M.A. in Interdisciplinary Studies.

Undergraduate Programs

Bachelor of Arts in Spanish

The BA in Spanish consists of a basic core (21 upper-division units) and one of two options (18 upper-division units) for a total of 39 upper-division units. Please note that all options will satisfy the single-subject credential requirements. However, the general option is strongly recommended for students interested in the Single Subject Credential Program. Both options require two years of a second foreign language at the college level.

N.B.: No course used to satisfy any requirement for the B.A. in Spanish may be taken on a Credit/No Credit basis.

Prerequisites

One year of intermediate Spanish at the university level, or equivalent. Students who have completed sufficient high school Spanish or equivalent may take upper-division courses as soon as proficiency requirements have been met. Heritage speakers of Spanish who have never formally studied the language are urged to take SPAN 250 (6-unit GE course).

Core

21 units: SPAN 300, 310, 330, 341, 423, and other 430 or 445.

Bachelor of Arts in Spanish (general) (code RGR_BA03) (120 units)

Requirements

1. Core courses.
3. Two years of a second foreign language at the college level.

Option in Translation (code RGR_BA06) (120 units)

Requirements

1. Core courses.
2. 18 upper-division units selected from the following: SPAN 461, 462, 463, 464, 465, 466, 467, RGR 346, 450, 424, 425, 470.
3. Two years of a second foreign language at the college level.
Minor in Spanish (code RGR_UM05)

Requirements

A minimum of 18 units in Spanish, at least 15 of which must be upper division and must include SPAN 300, and demonstration of oral fluency or SPAN 314. Students must file a Declaration of Minor and receive counseling from the undergraduate advisors. The minor in Spanish is available to any non-Spanish major.

N.B.: No course used to satisfy any requirement for the Minor in Spanish may be taken on a Credit/No Credit basis.

Single Subject Teaching Credential, Spanish (code 158)

Completion of the Spanish major meets the subject matter competence requirement for the Single Subject Preliminary Credential in Spanish (code 158). Prospective students should consult the undergraduate Spanish Advisor and the Languages Other Than English (LOTE) Program Advisor early to plan their program.

In addition to meeting the subject matter competence requirement for the Preliminary Credential, prospective teachers of Spanish are also required to complete 44 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as post-baccalaureate student. Refer to the Single Subject Teacher Education section of this Catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

Requirements

The same as for B.A. in Spanish.

Graduate Programs

Master of Arts in Spanish

(code RGR_MA03)

Prerequisites

1. A Bachelor of Arts degree in Spanish with minimum "B" (3.0) GPA overall; or
2. A Bachelor's degree with a minimum of 18 upper division units in Spanish equivalent to the Basic Core of the B.A. in Spanish at this University. Minimum "B" (3.0) GPA overall. Deficiencies will be determined by the Master's Degree Committee after consultation with the student and study of transcript records.

Advancement to Candidacy

1. Approval of a graduate program by the Graduate Advisor, the Department Chair, and the College Associate Dean of Graduate Studies.
2. Requirements: All deficiencies have been removed; the student has fulfilled the Graduation Writing Assessment Requirement (GWAR); the student has maintained at least a "B" (3.0) GPA in all work in Spanish.

3. The candidate may file for advancement to Candidacy after filing an individualized Course Planner, completing prerequisites, and completing at least 6 units (preferably no more than nine units) on the M.A. program. The candidate must file no later than one semester or summer session prior to completion of course requirements.

Requirements

1. Completion of a minimum of 30 units in Spanish in the 500 and 600 series distributed as follows:
   SPAN 500 (required) + 2 courses in Linguistics + 2 courses in Latin American Literature/Culture + 2 courses in Peninsular Literature/Culture + 3 electives.
2. Two years of one of the following languages: Italian, Portuguese, French, or German, or pass an examination at intermediate level in one of those languages. Major or minor in a second foreign language may be used to fulfill this requirement, upon approval by the Graduate Advisor.
3. Maintain a GPA of at least "B" (3.0) in Spanish exclusive of courses taken in other programs.
4. Pass comprehensive examinations based on Graduate Reading List after course work completed.
5. Maximum of six units of transfer graduate credit are allowed, subject to approval by the Graduate Advisor.

Courses (SPAN)

LOWER DIVISION

101B. Fundamentals of Spanish (4)

Prerequisite or Corequisite: Any Foundation course.

Concentration on oral comprehension and speaking. For those who are beginning the study of Spanish or who have had two years of high school Spanish or equivalent.

For non-native speakers only. Not open to heritage speakers or native speakers of Spanish. Check for the code 158 (for non-native speakers) and 159 (for heritage speakers) in the Schedule of Classes.

201A. Intermediate Spanish (4)

Prerequisites: SPAN 101B and completion of GE Foundation requirements (or entering competency equivalent to SPAN 101B and completion of or concurrent enrollment in at least one Foundation course).

Continued development of audio-lingual skills, reading and writing.

For non-native speakers only. Not open to heritage speakers or native speakers of Spanish. (4 hours activity)

201B. Intermediate Spanish (4)

Prerequisites: SPAN 201A and completion of GE Foundation requirements (or entering competency equivalent to SPAN 201A and completion of or concurrent enrollment in at least one Foundation course).

Continued development of oral skills, reading and writing.

For non-native speakers only. Not open to heritage speakers or native speakers of Spanish. (4 hours activity)

201C. Intermediate Spanish III (4)

Prerequisite: Any Foundation course. SPAN 201B or a minimum of four (4) college-level courses in Spanish or AP Exam (Pass at level 4 or 5).

Advanced Intermediate skills of speaking, comprehension, reading, and writing.

For non-native speakers only.

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250. Spanish for Bilinguals (6)
Prerequisite: Near native speaker oral skills and completion of GE Foundation requirements (or concurrent enrollment in at least one Foundation course).
Addressed particular needs of bilingual student population. Emphasis on acquisition of solid grammatical base with development of writing and reading skills.
Letter grade only (A-F).

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

300. Advanced Grammar and Composition (6)
Prerequisites: AP exam with a score of 4 or 5 or SPAN 201B or 201C or equivalent for non-native speakers. SPAN 250 or equivalent for heritage speakers.
Review of grammatical principles, general consolidation of the four language skills (reading, speaking, comprehension and writing) with oral and written projects and acquisition of cultural knowledge of the Hispanic world.
Check for the code 131 for non-native speakers and 138 for heritage speakers in the Schedule of Classes. (6 hours of activity)

310. Introduction to Literary Analysis (3)
Prerequisite: One 300-level course in Spanish or consent of instructor.
Discovery of literature as a work of art. Different levels of interpretation: complexity of structure related to content; literary appreciation.
Letter grade only (A-F).

314. Oral Communication (3)
Prerequisite: Upper division standing in Spanish, consent of instructor.
Emphasis will be placed on small-group discussion to improve communication skills in Spanish. Intended for non-native speakers.

322. Bilingual Teacher (3)
Prerequisites: SPAN 300 or consent of instructor.
Development and application of vocabulary for teaching elementary/secondary school subject matter in Spanish; application in actual teaching situations.

330. Literary Masterpieces: Spain (3)
Prerequisites: SPAN 310 or consent of Spanish Program Director; completion of GE Foundation requirements.
Critical analysis of masterworks of Spanish literature. (Lecture 3 hours)

335A. Business Spanish (3)
Prerequisites: SPAN 300 (5 units) or consent of instructor.
Study of terminology and practices from the world of business, with a focus on business relating to the Spanish speaking world, including the Hispanic market in the United States. It focuses on commerce, management, banking, real estate, and labor relations.
Letter grade only (A-F).

335B. Business Spanish (3)
Prerequisites: SPAN 300 or consent of instructor.
Study of terminology and practices from the world of business, with a focus on business relating to the Spanish speaking world, including the Hispanic market in the United States. It focuses on marketing, finance, import, and export.
Letter grade only (A-F).

341. Literary Masterpieces: Spanish America (3)
Prerequisites: SPAN 310 or consent of Spanish Program Director.
Critical analysis of masterworks of Spanish American literature. (Lecture 3 hours)

350. Hispanic Short Narrative (3)
Prerequisites: SPAN 310
An overview of representative short narrative from the Spanish-speaking world encompassing corresponding historical periods or thematic similarities.
Letter grade only (A-F).

351. Survey of Hispanic Theater (3)
Prerequisites: SPAN 310 and upper division standing
This course explores the development of the genre of theater in the Hispanic World in its social, cultural, historical, and political context either across time periods (medieval to 20th century) or within a certain literary movement (Romanticism, Neocolonialism, etc.).
Letter grade only (A-F)

400/500. Don Quijote and the Critics (3)
Prerequisite: SPAN 310
Directed to guide students through a close reading of Cervantes's Don Quijote, with special emphasis on various theoretical approaches to text. Provides basic introduction to literary criticism.

420/520. History of Spanish Language (3)
Prerequisite: One course in Spanish linguistics or consent of instructor.
Analysis of written and spoken Spanish from its inception through its current use in the Hispanic world.

423/523. Introduction to Spanish Linguistics (3)
Prerequisite: SPAN 300 or consent of instructor.
Overview of Spanish Linguistics. Areas of study: history of Spanish language, grammatical systems (Phonology, Morphology, Syntax), sociolinguistic status of Spanish in the U.S. and the teaching of Spanish as a second language.

426/526. Spanish Morphology and Syntax (3)
Prerequisite: Consent of instructor.
Morphemic and syntactic analysis of Spanish. Introduction to transformational grammar.
(Lecture 3 hours)

427/527. Contrastive Analysis of Spanish and English (3)
Prerequisite: Consent of instructor.
Study of the known points of similarity and differences between the two languages.

428. Spanish Cinema (3)
Prerequisites: Upper division standing.
Focus on socio-political and aesthetic aspects of Spanish Cinema, concentrating on the following periods: Early Francismo, Neo-Realismo, The Barcelona School, the Transition Period, post Franco Years, and new trends in Spanish Cinema.
Taught in English. Letter grade only (A-F). Same course as FEA 362E. Not open for credit to students with credit in FEA 362E.

429/529. Studies in 19th and 20th Century Spanish Poetry (3)
Prerequisite: SPAN 330.
Examinines salient poets from last two centuries, including Rosalía de Castro, Gustavo Adolfo Bécquer, Antonio Machado, Juan Ramón Jiménez, Vicente Aleixandre, Federico García Lorca, Gloria Fuertes, Jaime Gil de Biedma, and other more contemporary figures.
Undergraduates register in SPAN 429; graduates register in SPAN 529. Letter grade only (A-F). (Seminar 3 hours)
430. Spanish Civilization (3)
Prerequisites: Upper division standing in Spanish or consent of instructor.
Characteristics of Spanish culture with special attention to the various institutions: economic, social, and cultural configurations, and the ways of thinking.

438/538. Studies in Golden Age Literature (3)
Survey of Spanish Golden Age literature. Readings will focus on the literary masterpieces of the Renaissance and Baroque periods by Góngora, Quevedo, Cervantes, San Juan de la Cruz, Garcilaso de la Vega, and Calderón de la Barca.

439/539. Modern Spanish Narrative (3)
Prerequisites: SPAN 330 or consent of instructor.
Representative 19th and 20th century novelists. Undergraduates register in SPAN 439, graduates register in SPAN 539. (Seminar)

441/541. Studies in Nineteenth and Twentieth Century Spanish American Narrative (3)
Prerequisites: SPAN 341 or consent of instructor.
Critical analysis of 19th and 20th century Spanish American prose fiction.
Undergraduates register in SPAN 441, graduates register in SPAN 541. (Seminar 3 hours)

442/542. Nation Building and Women’s Writing in Nineteenth-Century Spanish America (3)
Prerequisites: SPAN 310 and 341 or consent of instructor.
Explores field of Spanish American women writers during nineteenth century and concept of nation building. Several genres are studied: epistolary, narrative, short-story, travel narrative, essay, autobiography, and the novel.

443/543. Studies in Nineteenth and Twentieth Century Spanish American Poetry (3)
Prerequisites: SPAN 341 or consent of instructor.
Study of representative 19th and 20th century Spanish American poets.
Lottor grade only (A-F). Undergraduates register in SPAN 443, graduates register in SPAN 543. (Seminar)

444/544. Nineteenth-Century Spanish America and The National Family Romance (3)
Prerequisites: SPAN 310 and 341 or Instructor’s permission.
Advanced course studies Spanish American canonical writers during the nineteenth century in relation to the concept of “Family Romance.” These fictions constitute the foundational master narratives that were the guiding fictions for the new independent nations.

445. Latin American Civilization (3)
Prerequisites: Upper division standing in Spanish or consent of instructor.
Analysis of main currents in Latin American civilization.

446/546. Studies in Spanish Culture (3)
Prerequisite: SPAN 330.
Deals with some aspect of Spanish culture in an interdisciplinary fashion during a given period. Topics could include social, political, theoretical, and/or historical perspectives on the arts.
Undergraduates register in SPAN 446; graduates register in SPAN 546. Lottor grade only (A-F). May be repeated to a maximum of 6 units. (Seminar 3 hours)

447/547. The Invention of Spain: Visions in Conflict (3)
Prerequisites: SPAN 300, 310, 330.
A social, historical, and literary study of Spain from 1808 through the beginning of the Spanish Civil War in 1936. Many groups struggle to impose their vision of Spain as it emerges from the War of Independence in 1808, transitioning from the Antiguo Régimen to modernity.

448. Romanticism and Realism (3)
Prerequisites: SPAN 300, 310 and 330.
A systematic tracing of the development of Spanish Romanticism in narrative forms, in its European and Latin American trajectories and its transformation into realism toward mid-nineteenth century.

449/549. Dictatorship to Democracy: Film and Literature in Spain (1930-today) (3)
Prerequisites: SPAN 310 and SPAN 330 or Instructor’s permission.
Advanced course explores Spanish culture through film and literature of the pre-Civil War period, the Franco period, and the transition to democracy, the advanced democracy of Spain today.

450/550. Studies in Colonial Spanish American Literatures (3)
Prerequisites: SPAN 310 and 341.
Focuses on canonical works from Spanish-American Colonial period (1500-1800). Covers large selection of literary texts of colonial period, including chronicles, relaciones, letters, diaries, poetry, autobiography, and travel literature.

455. Hispanic Cinema of the Americas (3)
Letter grade only (A-F).

460/560. Studies Spanish American Culture (3)
Prerequisite: SPAN 341.
In-depth study of some essays which have dealt with problem of what Spanish American nations are, and what they should be during the republican era. Includes authors from both nineteenth and twentieth centuries.
May be repeated to a maximum of 6 units with different topics in different semesters.

461. Introduction to Translation and Interpretation (3)
Prerequisites: SPAN 300 with a “B” or better or Spanish Program Director’s consent.
Designed to introduce student to basic techniques essential to terminology acquisition, concentration, written and sight translation and consecutive and simultaneous interpretation.

462. Written and Sight Translation I: English/Spanish (3)
Designed to train students in written and oral translation. Designed to train students in the basic techniques that are essential to terminology acquisition. (English into Spanish).
Letter grade only (A-F).

463. Written and Sight Translation II: Spanish/English (3)
Prerequisites: SPAN 461 or consent of Spanish Program Director.
Designed to train students in written and oral translation. Designed to train students in the basic techniques that are essential to terminology acquisition. (Spanish into English).
Letter grade only (A-F).

464. Consecutive Interpretation I (3)
Prerequisites: SPAN 461 or consent of Spanish Program Director.
Designed to train students in consecutive interpretation.
Letter grade only (A-F).

465. Consecutive Interpretation II (3)
Prerequisites: SPAN 461 or consent of Spanish Program Director.
Designed to train students in consecutive interpretation.
Letter grade only (A-F).
466. Simultaneous Interpretation English/Spanish (3)
Prerequisites: SPAN 461 or consent of Spanish Program Director.
Designed to introduce the student to the techniques that are essential to the five simultaneous operations that form an integral part of simultaneous interpretation (English into Spanish).
Letter grade only (A-F).

467. Simultaneous Interpretation Spanish/English (3)
Prerequisites: SPAN 461 or consent of Spanish Program Director.
Designed to introduce the student to the techniques that are essential to the five simultaneous operations that form an integral part of simultaneous interpretation. Spanish into English.
Letter grade only (A-F).

490. Special Topics (3)
Study of a particular aspect of Spanish literature, language, or culture.
Letter grade only (A-F). Topics will be announced in Schedule of Classes. May be repeated to a maximum of 9 units with different topics.

491/591. Nobel Poets and Others (3)
Prerequisites: SPAN 330, 341, or consent of instructor.
Critical analysis of representative works of Nobel Poets (Aleixandre, Jiménez, Mestral, Neruda and Paz) and other significant poets (Albertik, Bécquer, Darío, García Lorca, García de la Corza, González, Lamas, Velásquez, etc.)
Undergraduates register in SPAN 491; graduates register in SPAN 591. (Seminar 3 hours).

492/592. Studies in Hispanic Theater (3)
Prerequisites: SPAN 330 or 341, or consent of instructor.
Representative Spanish and Spanish American plays.
Undergraduates register in SPAN 492; graduates register in SPAN 592.

493/593. Special Topics (3)
Study of a particular aspect of Spanish literature, language, or culture.
Undergraduates register in 493; graduates register for 593. Letter grade only (A-F). Topics will be announced in Schedule of Classes. May be repeated to a maximum of 9 units with different topics. (Lecture)
A. Women and War: Voices of Resistance

494. Internship in Spanish (1-3)
Prerequisites: Consent of instructor and department chair.
Field work in Spanish, supplemented by readings and tutorials under the direction of a faculty member. Internships, small group discussion/teaching, and other assignments directed by a supervising faculty member.
May be repeated to a maximum of 6 units. No more than 3 units may be applied to the major in Spanish.

499. Independent Study (1-3)
Prerequisites: Consent of instructor and department chair.
Individual projects or directed readings with a professor of the student’s choice.
May be repeated to a maximum of 6 units. (Requires tutorial meetings and demonstrations of progress as defined in a written proposal.)

GRADUATE LEVEL

500/600. Don Quijote and the Critics (3)
Prerequisite: SPAN 310.
Designed to guide students through a close reading of Cervantes’s Don Quijote, with a special emphasis on various theoretical approaches to the text. The class will provide a basic introduction to literary criticism.

520/620. History of Spanish Language (3)
Prerequisite: One course in Spanish linguistics or consent of instructor.
Analysis of written and spoken Spanish from its inception through its current use in the Hispanic world.

523/623. Introduction to Spanish Linguistics (3)
Prerequisites: SPAN 300 or consent of instructor.
Overview of Spanish Linguistics. Areas of study: history of Spanish language, grammatical systems (Phonology, Morphology, Syntax), sociolinguistics status of Spanish in the U.S. and the teaching of Spanish as a second language.

526/626. Spanish Morphology and Syntax (3)
Prerequisite: Consent of instructor.
Morphemic and syntactic analysis of Spanish; introduction to transformational grammar.
Letter grade only (A-F). (Lecture 3 hours)

527/627. Contrastive Analysis of Spanish and English (3)
Prerequisite: Consent of instructor.
Study of known points of similarity and differences between the two languages.
Letter grade only (A-F).

529/629. Studies in 19th and 20th Century Spanish Poetry (3)
Prerequisite: SPAN 330.
Examinines salient poets from last two centuries, including Rosalía de Castro, Gustavo Adolfo Becquer, Antonio Machado, Juan Ramón Jiménez, Vicente Aleixandre, Federico García Lorca, Olave Fuentes, Jaime Gil de Biedma, and other more contemporary figures.
Undergraduates register in SPAN 429; graduates register in SPAN 529. Letter grade only (A-F). (Seminar 3 hours.)

538/638. Studies in Golden Age Literature (3)
Survey of Spanish Golden Age literature. Readings will focus on the literary masterpieces of the Renaissance and Baroque periods by Gongora, Quevedo, Cervantes, San Juan de la Cruz, Garciíza de la Vega, and Calderon de la Barca.

539/639. Modern Spanish Narrative (3)
Prerequisite: SPAN 330 or consent of instructor.
Representative 19th and 20th century novelists.
Letter grade only (A-F). Undergraduates register in SPAN 439, graduates register in SPAN 539. (Seminar)

541/641. Studies in Nineteenth and Twentieth Century Spanish American Narrative (3)
Prerequisite: SPAN 341 or consent of instructor.
Critical analysis of 19th and 20th century Spanish American prose fiction.
Undergraduates register in SPAN 441, graduates register in SPAN 541. Letter grade only (A-F). (Seminar 3 hours)

542/642. Nation Building and Women’s Writing in Nineteenth-Century Spanish America (3)
Prerequisites: SPAN 310 and 341 or instructor’s consent.
Explores field of Spanish American women writers during nineteenth century and concept of nation building. Several genres are studied: epistolary narrative, short story, travel narratives, essay, autobiography, and the novel.

543/643. Studies in Nineteenth and Twentieth Century Spanish American Poetry (3)
Prerequisite: SPAN 341 or consent of instructor.
Study of representative 19th and 20th century Spanish American poets.
Undergraduates register in SPAN 443, graduates register in SPAN 543. Letter grade only (A-F). (Seminar)
544. Nineteenth-Century Spanish America and The National Family Romance (3)
Prerequisites: SPAN 310 and 341 or instructor’s permission.
Advanced course studies Spanish American canonical writers during the nineteenth century in relation to the concept of “family romance.” These fictions constitute the foundational master narratives that were the guiding fictions for the new independent nations.

546. Studies in Spanish Culture (3)
Prerequisite: SPAN 330.
Deals with some aspect of Spanish culture in an interdisciplinary fashion during a given period. Topics could include social, political, theoretical, and/or historical perspectives on the arts.
Undergraduates register in SPAN 446; graduates register in SPAN 546. Letter grade only (A-F). May be repeated to a maximum of 6 units. (3 sem/hrs)

547. The Invention of Spain: Visions in Conflict (3)
Prerequisites: SPAN 310, 310, 330.
Social, historical and literary study of Spain from 1898 through the beginning of the Spanish Civil War in 1936. Many groups struggled to impose their vision of Spain as it emerged from the War of Independence in 1810, transitioning from the Antiguo Régimen to modernity.

548. Romanticism and Realism (3)
Prerequisites: SPAN 300, 310 and 330.
A systematic tracing of the derivation of Spanish Romanticism in narrative form, in its European and Peninsular trajectories and its transformation into realism toward mid-twentieth century.

549. Dictatorship to Democracy: Film and Literature in Spain (1939-Today) (3)
Prerequisites: SPAN 310 and 330 or instructor’s permission.
Advanced course explores Spanish culture through film and literature of the pre-Civil War period, the Franco period, the transition to democracy, and the advanced democracy of Spain today.
Letter grade only (A-F).

550. Studies in Colonial Spanish American Literature (3)
Prerequisite: SPAN 310 and 341.
Focuses on canonical works from Spanish-American Colonial period (1500-1800). Covers a large selection of literary texts of colonial period, including chronicles, relations, letters, diaries, poetry, autobiography, and travel literature.

560. Studies in Spanish American Culture (3)
Prerequisite: SPAN 341.
In-depth study of some of the essays which have dealt with the problem of what the Spanish American nations are, and what they should be during the republican era. Includes authors from both nineteenth and twentieth centuries.

590. Special Topics (3)
Study of a particular aspect of Spanish literature, language or culture.
Letter grade only (A-F). Topics will be announced in Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

591. Nobel Poets and Others (3)
Prerequisite: SPAN 330, 341, or consent of instructor.
Critical analysis of representative works of Nobel Poets (Alejandrino, Jiménez, Mertil, Neruda and Placa) and other significant poets (Albertik, Bilbao, Dario, Garcia Lorca, Gabo, García, Góngora, Guillain, Vallejo, etc.).
Undergraduates register in SPAN 491, graduate register in SPAN 501. (Seminar 3 hrs.)

592. Studies in Hispanic Theater (3)
Prerequisite: SPAN 330 or 341, or consent of instructor.
Representative Spanish and Spanish American plays.
Letter grade only (A-F). Undergraduates register in SPAN 492; graduates register in SPAN 592.

593. Special Topics (3)
Study of a particular aspect of Spanish literature, language or culture.
Topics will be announced in Schedule of Classes. Undergraduates register in 493; graduate register in 593. Letter grade only (A-F). May be repeated to a maximum of 8 units with different topics. (Seminar)

599. Directed Studies (1-3)
Prerequisites: Graduate standing, advanced to candidacy, consent of the instructor and Chair or Graduate Advisor.
Selected topics on Hispanic Studies to be pursued in-depth.
Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics with consent of Graduate Advisor and Department Chair.

640. Seminar in Spanish American Literature (3)
Prerequisite: SPAN 341 or consent of instructor.
Study of particular period, genre or author.
Topics will be announced in Schedule of Classes. Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics in different semesters. (Seminar 3 hrs.)

650. Research Methods and Critical Theory. (3)
Prerequisite: SPAN 310.
An introduction to the Master's level research methods, including information technology, library literacy, research paper preparation, conference presentations, and professionalization issues related to M.A. level work. The idiom of critical theory will be introduced in an application-based setting.
Letter grade only (A-F). (Seminar 3 hrs.)

691. Seminar in Spanish Literature-The Spanish Civil War and its Artistic Repercussions (3)
Prerequisite: SPAN 330, 341 or consent of instructor.
Examines fiction dealing with war themes written during and after the Spanish Civil War (1936-39). It includes authors such as Antonio Barcia, Constancia de la Mora, César Valdés, Pablo Neruda, Delores Eibar, Emil de Heningway, Juan Goytisolo, George Orwell, and Ana María Matute.
Letter grade only (A-F). May be repeated to a maximum of 6 units. (Seminar 3 hrs.)

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STUDENT RECREATION AND LEADERSHIP
College of Health and Human Services
Department of Kinesiology

Director: Rita Hayes
Office: PE 1, Rm 15
Telephone: 562.985.7351
Website: www.csulb.edu/recsports
Fax: 562.985.7331

Rita Hayes, Director, Club Sports and Recreation
J. Michael Hostetler, Associate Vice President, Student Services/Dean of Students
Ken Kelly, Director, Student Transition and Retention Services
Jeffrey Klaus, Director, Student Life and Development
Glenn McDonald, Director of Intramural Sports
Jeanie Riehlke Caverness, Assistant Dean of Students

Introduction
The Kinesiology Department and the Division of Student Services oversee a broad range of educational and student support services programs to assist students in achieving their academic goals and to enhance their personal, intellectual and social development. The division provides oversight and direction for more than 35 university programs and services areas that support students outside the classroom.

Through cooperation between the Associated Students, Inc. and the Student Services Division, a comprehensive program of intramural competition, club sports, and Sports, Recreation and Leadership courses are offered.

Intramural programs afford students the opportunity to play in 25 different activities. To receive credit for this program, students may enroll in SRL 200. To receive credits for this course, students must play one league activity and assist in supervising a league.

Intramural team activities are scheduled at varied times. League competition is available in 16 of the activities for men, women and co-educational participation. Students enrolled in class must contact the Intramural Office to sign up for their activities. Upon completion of each activity, the student must notify the Intramural and Recreational Sports Office (PE 1, Rm 20A) for their participation. Students may participate in any of the club sports activities which are partially funded by the Associated Students, Inc., and administered through the Club Sports Recreation Office. Sports are: Aikido, alpine ski-snowboard, archery, bowling, crew, ice hockey, rugby, sailing, Shorukan Karate, soccer, surfing, triathlon, volleyball, ultimate Frisbee and water ski/wakeboard, jiu jitsu, Kung Fu, roller hockey, running, capoeira, breakdancing, waterpolo, belly dancing, cricket, lacrosse, paintball, racquetball, saucie, tennis. Students registering for SRL 210 must attend regular practices and competitions, assist the club with fundraisers, attend one workshop sponsored by the Leadership Resource Center and adhere to club rules and regulations.

For information on practice times and meeting locations, contact the individual club coach or president. Visit the Club Sports and Recreation website (www.csulb.edu/recsports) or visit the Intramural and Recreational Sports Office (PE 1, Rm 20A). In addition to participation in club sport activities, students may receive credit for leadership training and service performed with some university-sponsored programs by registering in SRL 210L.

Students may apply no more than four (4) semester units of lower-division SRL courses toward the baccalaureate degree within the 20-unit maximum on activity units.

The California State University is committed to providing equal opportunities to men and women CSU students in all campus programs, including intercollegiate athletics. For a listing of Intercollegiate Athletic teams, visit longbeachstate.com.

Courses (SRL)

200. Intramural Activities (1)
Repeatable credits include previous credits from SAR 200.

210 A-W. Sport Clubs/Leadership (1)
Prerequisite: Participation/competition in sport clubs/leadership. Enrollment subject to consent of instructor or Director of Club Sports and Recreation.

Athletes enrolled who fail to qualify for squad must withdraw from course. It is the student's responsibility to contact teams regarding practice times and eligibility requirements.

May be repeated to a maximum of 4 units, including previously earned credits from SAR 210. Credit/No Credit grading only.

A. Archery
B. Crew
D. Ice Hockey
E. Martial Arts
F. Rugby
G. Sailing
H. Ski and Snowboard
I. Soccer
J. Water Ski
K. Surfing
L. Leadership
M. Triathlon
N. Lacrosse
O. Wakeboard and Water ski
P. Paintball
Q. Racquetball
R. Roller Hockey
S. Cultural Dances
T. Ultimate Frisbee
U. Volleyball
V. Running
W. Bowling

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TEACHER EDUCATION
College of Education

Department Chair: Vacant
Department Office: Carole Hernandez, Office Manager
Education Building (ED) 1, Room 13, (362) 985-4506

Teacher Preparation Advising Center
Vacant, Co-Director
Jan Condra, Associate Director
Education Building (ED) 1, Room 67, (362) 985-9259


Multiple Subject Credential Program Advisors
Vacant, MSCP Program and MSCP Intern Program
Olga Rubio, MSCP Spanish BCLAD Emphasis
Fay Shin, MSCP Asian BCLAD Emphasis

View the Department of Teacher Education website at www.csulb.edu/teacher-ed
View the Teacher Preparation Advising Center website at www.csulb.edu/tpac
View the Multiple Subject Credential Program website at www.csulb.edu/mscp

Introduction
The Department of Teacher Education offers coursework in credential, certificate, and Master's degree programs that include preliminary and advanced professional preparation. The department houses the Multiple Subject Credential Program, a Reading Certificate program, a Reading and Language Arts Specialist credential program, and Master's degree programs in Early Childhood Education, Reading, Dual Language Development, and Curriculum and Instruction. Courses are offered at a variety of times, with most courses offered in the late afternoon and evening to accommodate working schedules.

Multiple Subject Credential Program (code 200)
A teacher with a Multiple Subject Credential is authorized to teach grades pre-K through 12 in self-contained classrooms. The Multiple Subject Credential Program (MSCP) prepares students to be credentialed in the State of California for elementary and middle school instruction. The program allows for daytime field experiences in elementary classrooms and includes methodology courses and student teaching. The program can be completed in one summer and two semesters or three semesters, depending upon when prerequisites and corequisites are taken, when the student begins the program, and whether a part-time or full-time schedule is followed. Program requirements must be met within five years of the date of admission to the program.

The department has four Preliminary Multiple Subject Credential Program (MSCP) tracks:

• Multiple Subject Credential Program
• Bilingual Cross-Cultural Language and Academic Development (BCLAD) Emphasis (Spanish, Cambodian [Khmer], Chinese [Mandarin and Cantonese], Korean, Vietnamese)
• Multiple Subject Internship Program
• Integrated Teacher Education Program (ITEP)

For program information and advisement, contact the Teacher Preparation Advising Center (ED1-67; 362) 985-9259; or visit the department website.

Preliminary Credential
Successful completion of the Multiple Subject Credential Program leads to the Preliminary Credential, which is valid for five years. Requirements for the Preliminary Credential are:
1. Hold a bachelor's degree from an accredited institution.
2. Satisfy the U.S. Constitution requirement (POSC 100 or 301 or exam or equivalent course from another institution).
3. Pass California Basic Educational Skills Test (a test of basic reading, writing and math) or CTC approved alternative exam.
5. Demonstrate Level 1 computer technology competence (embedded in program course work).
6. Demonstrate subject matter competence by passing the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects).
7. Complete professional preparation courses (in the MSCP) with a grade point average of 3.0 in all subject specific pedagogy (methods) courses with no grade lower than "C."
8. Successfully complete student teaching.
9. Pass the Reading Instruction Competence Assessment (RICA) exam.
10. For Bilingual Cross-Cultural Language and Academic Development (BCLAD) candidates only: Demonstrate competence in BCLAD Domains 4 (specialized pedagogy), 5 (target culture knowledge) and 6 (proficiency in the target language). Requirements may be met through course work or state-approved exams.

Clear Credential
The Preliminary Credential is valid for five years from the date of issuance and is not renewable. During the first five years of teaching, teachers earn the clear credential through their District-Sponsored Induction Program.

Admission to the University and Multiple Subject Credential Program (MSCP)
Admission to the university and the MSCP are two separate processes. Applications to the university are available in Enrollment Services or on-line through CSU Mentor (www.csumentor.edu). Applications to the

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program are distributed at regularly scheduled program information meetings. Meeting dates, times and locations are available on the MSCP website. Matriculated students may be admitted to the program based on their current undergraduate or graduate status. Graduating seniors, transfer students, and returning students should apply for post-baccalaureate admission to the university with the objective of entering the credential program (identify your program objective as Multiple Subject Credential). Admission to the university does not constitute admission to the program.

Multiple Subject Credential Program Structure

The MSCP is a 40 unit program separated into three successive phases. Students must complete each phase before advancing to the next one.

- Phase One - Students complete program prerequisites (and may take any or all corequisites) and submit applications. Subject matter competence must be demonstrated at the time of application to the program by submission of a passing score on all three sections of the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects).
- Phase Two - Students complete corequisite courses and five subject specific pedagogy courses.
- Phase Three - Students complete student teaching.

Program Admission

All candidates are required to comply with all program policies and procedures detailed in the MSCP Handbook, which is available for purchase at the Campus Copy Center located in the bookstore. Pre-program advisement and brochure materials are available in the Teacher Preparation Advising Center (ED1-67). Prospective candidates should obtain a program application by attending one of the regularly scheduled group advisement meetings. See schedule at www.cod.csulb.edu/mscp

Program Admission Requirements

1. Complete all prerequisite courses in one of the four MSCP tracks, with a minimum grade of "B" in EDEL 360, and no grade lower than a "C" in any other prerequisite or corequisite course.
2. Achieve a grade point average of at least 2.67 in all baccalaureate and post baccalaureate course work or a grade point average of at least 2.76 in the last 60 semester or 90 quarter units attempted.
3. Complete and pass an interview with a department faculty advisor.
4. Submit three letters of recommendation.
5. Submit a typed personal statement describing why you have chosen teaching as a career, what you hope to accomplish as a teacher, and how you view the role of the teacher.
6. Submit a negative tuberculosis skin test or chest X-ray taken within the last three years. Tuberculosis clearance must be valid through student teaching.
7. Submit one photocopy of all university and/or college transcripts.
8. Submit proof of having taken the California Basic Educational Skills Test (CBEST). Note: You must take all three parts of the test. (Passage of the exam is required to advance to student teaching.) For alternatives to CBEST contact the Teacher Preparation Advising Center.
9. Submit proof of having demonstrated subject matter competence by passing all three sections of the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects).
10. Demonstrate proficiency in reading and writing English by (1) attaining the minimum passing score of 37 on the reading portion of the CBEST and by (2) attaining the minimum passing score of 37 on the writing portion of the CBEST exam. (Passage of CBEST is required to advance to student teaching.)
11. Attach a copy of a Certificate of Clearance, or a photocopy of a California emergency/short-term teaching permit.
12. Demonstrate ability to communicate orally in English at the level required of public school teachers by demonstration of English production skills in the course EDEL 380 (EDEL 200 for ITEP candidates) and through an oral interview with department faculty. In the case of candidates for a Bilingual Emphasis Multiple Subject Credential, there is a bilingual interview requirement in English and the target language.
13. Demonstrate character and personality traits that satisfy the standards of the teaching profession and suitable aptitude for teaching in public schools through the application documentation, the personal interview, and performance in the course EDEL 380. Candidates must continue to demonstrate appropriate character and personality traits through completion of the program.
14. Submit the application packet, including documentation, by March 1 to begin pedagogy courses in summer or fall terms, and October 1 to begin pedagogy courses in winter or spring terms. THESE DEADLINES ARE STRICTLY ENFORCED.

Student Teaching

The final phase of the MSCP is student teaching. Student Teaching is a full-time five days per week experience for the length of the university semester. All student teachers have one placement in a K-2 classroom where they gain experience with early literacy instruction utilizing a balanced and comprehensive approach to reading. The other placement is in an intermediate classroom (grades 3-5) or in a middle school classroom (grades 6-8). One student teaching placement must be in a public school. There are several ways to complete student teaching: one regular semester, two semesters, two consecutive summers, one entire summer, or one summer and part of one regular semester. Students should be aware that there is extremely limited availability in the summer and all applicants will not necessarily be accommodated. A separate application is required to advance to student teaching. Applications for student teaching must be submitted in person to the Multiple Subject Student Teaching Office one semester prior to the first assignment. Application packets are distributed at the Student Teaching Application meetings. Dates, times and locations are announced in methods courses. The packets are posted.
throughout the ED-1 and ED-2 buildings, and appear on the website at www.ced.csulb.edu/elpo well in advance of the actual meeting dates. Deadlines for submitting applications to student teaching are:

March 1 — for Summer/Fall Student Teaching
October 1 — for Spring Student Teaching

Students should note that these deadlines are firm. Late applications are not accepted.

**Advancement to Student Teaching Requirements**

Students must meet the following requirements to advance to student teaching:

1. Completion of all program prerequisites, corerequisites and subject specific pedagogy requirements in Phases 1 and 2 of one of the MSCP tracks. Students must complete all five subject specific pedagogy (methods) courses with a 3.0 grade point average and no grade lower than “C.” A grade of “D” or “F” in a program course will result in being dropped from the program. In addition, EDEL 413 and 431 must be completed with no grade lower than “C.” The overall grade point average must continue to meet the program admission standard.

2. Passage of the California Basic Educational Skills Test (CBEST).

3. A negative tuberculosis skin test or chest x-ray valid through completion of student teaching.


5. BCLAD Emphasis students must meet all additional BCLAD program requirements.

6. For students who wish to student teach at the kindergarten level: completion of EDEL 420 with a minimum grade of “C.”

7. Submission of a student teaching application by the appropriate deadline.

**Track One – Preliminary Multiple Subject Credential Program**

The Preliminary credential is the basic Multiple Subject Credential. This track is comprised of foundational and subject specific pedagogy course work followed by the student teaching semester.

**Prerequisites**

- EDEL 380 (3 units), EDSP 303 (1 unit) - must be taken concurrently.

**Corequisites**

- EDEL 413 (2 units), EDEU/EDP/LING 431 (3 units) - may be taken prior to or after admission to the MSCP but must be completed prior to student teaching

**Subject Specific Pedagogy (teaching methods)**

Students must be officially admitted to the MSCP to take these courses. One course must be taken off-campus at an elementary school site during daytime school hours, and at least one must be taken on-campus: EDEL 442, 452, 462, 472, EDEL/SCED 475.

**Student Teaching**

All requirements for advancement to student teaching must be met: EDEL 452 (16 units).

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**Track Two – Bilingual Cross-Cultural Language and Academic Development (BCLAD) Emphasis in Spanish and Asian Languages**

The Bilingual Cross-Cultural Language and Academic Development (BCLAD) Emphasis credential authorizes teachers to work in dual language classrooms or where a language other than English is required for instruction, support, and communication with parents and other professional communication. With appropriate substitutions and/or additional course work, the BCLAD Emphasis may be added to the Preliminary credential. All BCLAD Emphasis candidates must demonstrate knowledge of the target culture, specific pedagogical skills, and fluency in speaking, listening, reading and writing in the target language. A BCLAD Certificate can be added to an existing credential by passing the appropriate CLAD and/or BCLAD exams.

The BCLAD Spanish Emphasis is offered on campus or through the BCLAD in Mexico program. The BCLAD in Mexico program leads to a Multiple Subject Preliminary Credential with Spanish BCLAD Emphasis during a year of study in Querétaro, México. CSULB and nine other CSU campuses statewide offer this credential in conjunction with the Office of International Programs. Applications are accepted between January 2 and March 1 only.

To add the international BCLAD Spanish certificate to the Preliminary credential the following courses are required: EDCI 541; SPAN 322, 445. (Note: EDCI 541 and SPAN 322 must be taken in Mexico).

The BCLAD Asian Emphasis is part of a six campus CSU consortium offering BCLAD preparation and certification in Korean, Chinese (Mandarin or Cantonese), and Vietnamese. Asian BCLAD courses are taken at CSULB and other area CSU participating campuses.

**Spanish/English BCLAD Emphasis**

The BCLAD Emphasis in Spanish prepares students for teaching in dual language and English Language Development settings where Spanish is required for instruction, support, and communication with parents and other professional communication. In addition to the Preliminary credential requirements, BCLAD Emphasis in Spanish requires include teaching pedagogy and practicum in a second language, culture of emphasis (by coursework or examination) and fluency in Spanish (by examination). The program requires 43 units of course work plus culture and language of emphasis proficiency through additional course work and/or examination. See the Spanish BCLAD advisor for program information.

**Prerequisites**

Same (4 units) as for Track One in the Preliminary credential.

**Corequisites**

Same (5 units) as for Track One in the Preliminary credential program plus EDP/LING 485 or EDPEDEL 439 (3 units).
Subject Specific Pedagogy
Same (15 units) as for Track One in the Preliminary credential program, with the following differences:
EDEL 442 (Footnote # 53 section recommended) Substitute EDEL 452B for EDEL 452.
Note 1: 150 documented hours as a teacher, assistant or volunteer in a multilingual setting is required in lieu of an off-campus daytime pedagogy course.
Note 2: It is recommended that EDEL 442 and 452B be taken concurrently.

Additional Spanish BCLAD Requirements
Those requirements (0-15 units) may be taken at any time, but must be completed before student teaching:
Culture of Emphasis: For undergraduates, the culture component for the Spanish BCLAD is fulfilled in the Liberal Studies Bilingual concentration. Students completing a non-Liberal Studies bachelor’s degree can meet this requirement by taking CHLS 340 or CHLS 350 or the appropriate CSET LOTE exam.
Language of Emphasis: All Spanish BCLAD candidates must pass the appropriate CSET LOTE exam (speaking, listening, reading and writing) prior to completion of the program. SPAN 300, 312, 313, and 322 are also recommended (12 units). In addition, LING 329 or EDSP 454 are strongly advised for language acquisition background.

Student Teaching
All requirements for advancement to student teaching must be met. EDEL 482B or 482C (16 units)

Asian Languages/English BCLAD Emphasis
The BCLAD Emphasis in Asian Languages prepares students for teaching in dual language and English Language Development settings where Chinese (Mandarin, Cantonese), Khmer, Korean or Vietnamese is required for instruction, support, and communication with parents and other professional communication. In addition to the Preliminary credential requirements, BCLAD Emphasis in Asian Languages requirements include teaching pedagogy and practice in a second language, culture of emphasis (by coursework or examination) and fluency in the target language (by examination). The program requires 46 units of coursework plus culture and proficiency in the target language (appropriate CSET - LOTE exam). See the Asian Languages BCLAD advisor for program information.

Prerequisites
Same (4 units) as for Track One in the Preliminary credential program.

Corequisites
Same (6 units) as for Track One in the Preliminary credential program.

Subject Specific Pedagogy
Same (15 units) as for Track One in the Preliminary credential program.

Additional Asian BCLAD Requirements (0-6 units)
Culture of Emphasis (one for each language program) (3 units):

Chinese (Cantonese & Mandarin) - EWS 301, Cal Poly Pomona
Cambodian - ASAM 334, CSU Long Beach
Korean – AAS 495KA , CSU Northridge or TED 495, CSU Dominguez Hills
Vietnamese - ASAM 333, CSU Long Beach
Bilingual Pedagogy (one for each language program) (3 units):
Chinese (Cantonese/Mandarin) - EDEL 400 (Cantonese/ Mandarin), CSU Los Angeles or EDEL 452C (Cantonese/ Mandarin), CSU Long Beach
Cambodian (Khmer) - EDEL 490 (Cambodian), CSU Long Beach
Korean - EED 520K (Korean), CSU Northridge or TED 515A (Korean), Cal Poly Pomona or TED 490 (Korean) CSU Dominguez Hills
Vietnamese - EDEL 448 (Vietnamese), CSU Fullerton
Note: Bilingual pedagogy and culture of emphasis courses may be taken before admission to the MSCP Program.

Language of Emphasis
May be passed by appropriate CSET LOTE Exam. See program advisor for recommended courses as preparation for the exam.

Student Teaching
All requirements for advancement to student teaching must be met. EDEL 482B or 482C (16 units).

Track Three – Multiple Subject Internship
The intern program is for full-time teachers in districts with which CSULB has a contractual internship. All students in this program must be employed by the district as the full-time teacher of record in a multiple subject classroom and have met all program and internship admission requirements. The program requires 24 units of foundational and subject specific course work followed by 16 units of intern student teaching.

Application Requirements
• Hold a Bachelor’s degree from an accredited institution.
• Demonstrate subject matter competence by passing the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects).
• Meet the U.S. Constitution requirement (by course work or exam).
• Pass the CBEST (or CTC approved alternative exam).
• Be assigned full-time to a self-contained K-8 multiple subject classroom in a partner school district.
• Meet the program grade point average requirement of 2.67 overall or 2.75 in the last 60 semester or 90 quarter units.
• Complete MSCP prerequisite and corequisite courses.
• Have submitted an application to the MSCP program.
• Become officially admitted to the Multiple Subject Credential Program.
• Complete an interview with the Intern Program Director.

Prerequisites
Same (4 units) as for Track One in the Preliminary credential program.

Corequisites (5 units)
Same (5 units) as for Track One in the Preliminary credential program.
Subject Specific Pedagogy

Same (15 units) as for Track One in the Preliminary credential program.

Student Teaching

All requirements for advancement to student teaching must be met. EDEL 572A and 572B (8 units each).

Note: Interns must attend a Student Teaching Application Meeting and apply to student teach by the October 1 deadline for spring, and March 1 deadline for summer and fall.

Additional Requirements for BCLAD Interns

BCLAD Interns should refer to Track Two, above, for additional BCLAD Emphasis requirements.

Early Completion Intern Option

The Early Completion Intern Option allows qualified candidates to challenge the course work portion of the internship program and demonstrate their pedagogical skills by passage of the California Teaching Performance Assessment while serving as an intern. See an advisor in the Teacher Preparation Advising Center for details.

Track Four – Integrated Teacher Education Program

For the Integrated Teacher Education Program (ITEP) requirements, please refer to the Liberal Studies section of this catalog.

Petition Process

Appeals to program decisions or requests for policy waivers are made by filing a written appeal to the Department of Teacher Education Admissions and Standards Committee.

The committee reviews the written petition and supporting documentation and renders a decision. Examples of petitions typically reviewed are: waive a deadline for submission of a test score, waive an application deadline, and readmission to student teaching. Decisions of the committee are final. Students follow university policy to appeal a course final grade.

Reading Certificate (code 415)

This certificate is granted by the California Commission on Teacher Credentialing (CTC).

The Reading Certificate provides classroom teachers with advanced preparation in reading/language arts assessment and instruction, as well as theory and research in teaching reading, grades K-12. Some candidates may wish to complete the 12 unit Reading Certificate program as a terminal objective, while others may wish to complete it as a prerequisite to the Reading/Language Arts Specialist Credential Program.

Before completion of requirements for the Reading Certificate, the candidate must provide verification of three years of 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.

Admission Requirements

1. Bachelor’s degree and Multiple Subject or Single Subject Credential or equivalent; CLAD certification strongly recommended.
2. ENGL 481 or ENGL 482 or EDRG 520, or current equivalent course in children’s or adolescent literature.
3. A minimum grade point average of 3.0 in the last 60 semester units or 90 quarter units of university course work.
4. Two (2) letters of recommendation on letterhead stationary from educators, one of which is from a supervisor.
5. A personal teaching autobiography including what reading means to you, what you have learned about children and reading, and why you wish to enter the graduate reading program (3 pages maximum).
6. Interview with program faculty.
7. For secondary teachers, EDEL 452 or equivalent is strongly recommended.
8. Program application.

Requirements

EDRG 540, 551, 558, 559

Reading and Language Arts Specialist Credential (code 410)

The Reading/Language Arts Specialist Credential prepares teachers to become school and district literacy leaders and supervisors. The reading/language specialist’s role is multifaceted, including diagnostician, teacher of intervention for children or youth with delayed literacy development, collaborator with other school and district specialists, provider of professional development for classroom teachers, and reading program coordinator or facilitator.

Admission Requirements

Successful completion of the Reading Certificate program, or a valid Reading Certificate, or equivalent.

Requirements

EDRG 543, 544, 554, 556, 651

Note: All courses required for the Reading/Language Arts Specialist Credential can be applied to the MA in Elementary or Secondary Education: Specialization in Reading. See Catalog program description and the faculty advisor in the Department of Teacher Education for more information.

Master of Arts in Education

Option in Curriculum and Instruction, Elementary Education (code EDELMA02)

(30-33 units)

The Master of Arts in Education, Option in Curriculum and Instruction, Elementary Education is designed to foster the development of educators who are caring, effective, reflective, and committed to improving their schools. Coursework prepares teachers to apply theoretical insights and research findings to the practical problems they encounter in their work in curriculum and instruction.

Prerequisites

A valid elementary teaching credential or by permission of program coordinator.
Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://www.ced.csulb.edu/teacher-ed/resources/documents/masters.cfm.

Requirements
1. Methods of social science inquiry (6 units): EDP 400 and one of the following: EDP 520 or EDGC 533 for Comprehensive Examination track; EDP 595 or EDP 696 for Thesis track.
2. Core (15 units): EDGI 500, 505, 530, 625, 695 (to be taken in final semester).
3. Concentration (9 units): Candidates select an area of concentration, in consultation with the program advisor, tailored to their professional goals. Candidates are responsible for taking prerequisite courses if required. The concentration may be in one of the following patterns:
   A. Advanced methods (3 units): EDGR 540, EDGI 560, EDGI 570;
   B. Advanced coursework in Educational Technology: 9 units selected from the following: EDSP 542, ETEC 523, 525, 530, 551, 553;
   C. 9 units of advanced coursework in a self-selected concentration chosen in consultation with the program advisor (e.g., Social and Multicultural Foundations).
4. Capstone Experience
   Candidates select one of the following capstone experiences in consultation with the program advisor:
   A. Comprehensive Examination and EDGI 695 (3 units).
   B. Thesis and EDGI 696 (6 units).

Option in Curriculum and Instruction, Secondary Education (code EDELMA03)
(30-33 units)
The Master of Arts in Education, Option in Curriculum and Instruction, Secondary Education is designed to foster the development of educators who are caring, effective, reflective, and committed to improving their schools. Coursework prepares teachers to apply theoretical insights and research findings to the practical problems they encounter in their work in curriculum and instruction.

Prerequisite
A valid secondary teaching credential or by permission of program coordinator.

Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://www.ced.csulb.edu/teacher-ed/resources/documents/masters.cfm.

Requirements
1. Methods of social science inquiry (6 units): EDP 400, EDP 520.
2. Core (15 units): EDGI 500, 505, 530, 625, 695 (to be taken in final semester).
3. Concentration (9 units): Candidates select an area of concentration, in consultation with the program advisor, tailored to their professional goals. A concentration must follow a pattern or theme; a disparate set of unrelated courses is not a concentration. Thesis candidates should shape their concentration around research methodology and content related to their thesis topic. Candidates must submit a written statement containing a coherent rationale for and description of the concentration sequence at the time of advancement to candidacy. Concentrations may follow one of the patterns listed below or may be uniquely devised by the candidate. A concentration must have the approval of the program advisor. Candidates are responsible for taking prerequisite courses if required.
   A. Educational Technology (e.g., ETEC 523, 551, 553, 623);
   B. Educational Foundations (e.g., EDP 573, 574, 575, 576);
   C. Advanced coursework in the candidate's teaching discipline;
   D. Advanced coursework toward a Supplementary Authorization;
   E. Advanced coursework toward the Clear Credential;
   F. Advanced coursework toward GTED certification;
   G. Research methods courses in preparation for the thesis (e.g., EDP 595, 596, 696, EDGI 553).

4. Capstone Experience
   Candidates select one of the following capstone experiences in consultation with the program advisor.
   A. Comprehensive Examination and EDGI 695 (3 units).
   B. Thesis and EDGI 696 (6 units).

Option in Dual Language Development (code EDELMA04)
(30-33 units)
The Master of Arts in Education, Option in Dual Language Development focuses on bilingualism in school and societal contexts. The program, through its action research approach, seeks to develop a cadre of teacher-leaders who systematically and purposefully examine and refine their own pedagogy with respect to the instruction of language minority students.

Prerequisite
A valid teaching credential with BCLAD/CLAD emphasis or certification, or by permission of program coordinator. Demonstration of bilingual proficiency, or six (6) college semester units of a language other than English, or verified equivalent.

Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://www.ced.csulb.edu/teacher-ed/resources/documents/masters.cfm.

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Requirements
1. Methods of Social Science Inquiry Requirements (6 units): EDP 400 & EDCI 533.
2. Core (15 units): EDCI 541, EDRG 551B, EDCI 532, LING 550, and EDCI 530 or EDP 574 or EDP 672.
3. Concentration (6 units): 6 units of advisor-approved electives.
4. Capstone Requirement (3-6 units): One of the following chosen in consultation with an advisor: EDCI 695 (3 units) and Comprehensive Examination; EDCI 698 (6 units) and Thesis.

Option in Early Childhood Education (code EDELMA05)
(30-33 units)
The Master of Arts in Education, Option in Early Childhood Education is designed to foster the development of educators who are able to apply research-based knowledge in designing developmentally and culturally appropriate curriculum and assessment strategies for children ages birth through 8. Candidates develop parent involvement strategies, reflect on issues facing the field, evaluate the quality of early childhood programs in their local communities, critically evaluate policies that impact young children and their families around the world, and utilize technology to enhance communication and learning.

Prerequisites
1. EDP 501 or HDEV 3071 or PSY 361.
2. EDEL 420
3. EDEL 432 or one year of documented and approved teaching experience.

Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://cgl.csulb.edu/teacher-ed/resources/documents/masters.cfm.

Requirements
1. Research methods (6 units): EDP 400 and one of the following: EDP 520 (for Comprehensive Examination track), or EDP 565 or EDP 696 (for Thesis track).
2. Core courses (21 units): EDEC 520, 521, 522, 523, 526, 621, 622.
3. One of the following chosen in consultation with the program advisor: EDEC 695 (3 units) and Comprehensive Examination; EDEC 698 (6 units) and Thesis.

Option in Reading/Language Arts (code EDELMA06)
(33-36 units)
The Master of Arts in Education, Option in Reading/Language Arts is designed for experienced classroom teachers who want to pursue in-depth study of issues related to reading and language arts education. The program provides educators with the theoretical and professional knowledge necessary to develop innovative, research-based reading and language arts curricula and to install the leadership skills necessary for successful reading program implementation for all students, including English language learners.

Prerequisites
A valid elementary or secondary teaching credential; ENGL 481 or ENGL 482 or EDC 520 or approved equivalent (can be taken concurrently with program requirements). CLAD certification is strongly recommended.

Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://www.ced.csulb.edu/teacher-ed/resources/documents/masters.cfm.

Requirements
1. All of the following (30 units): EDRG 540, 543, 544, 551, 554, 566, 586, 651, and EDP 595/LING 595. (Please contact the program advisor prior to beginning coursework.)
2. One of the following chosen in consultation with the program advisor (3-6 units): EDRG 695 (3 units) and Comprehensive Examination; EDRG 698 (6 units) and Thesis.

Option in Mathematics Education (code EDELMA07)
The Master of Arts in Education, Option in Mathematics Education is designed for teachers seeking to enhance their knowledge and skills in mathematics content and pedagogy. Candidates investigate research-based mathematics teaching and learning with a focus on developing their ability to assess the learning needs of diverse students, support students in achieving mathematics proficiency, integrate technology in mathematics instruction, and develop a balanced mathematics instructional program that focuses on conceptual understanding, procedural fluency, and problem solving.

Prerequisites
A valid teaching credential and six units in teaching mathematics (either or both may be waived by permission of the Program Coordinator).

Admission
In addition to applying to the university for graduate standing, candidates must submit a program-specific application. Program applications are available in the College Graduate Studies Office (ED1-7) and online at http://www.ced.csulb.edu/teacher-ed/resources/documents/masters.cfm.

Requirements (30 – 33 units)
2. Core (9 units): EDM 500 or MTED 511, EDM 505, EDM 555.
3. Concentration (12 units): MTED 500, EDM 503, EDM 504, EDM 520.
4. Capstone Requirement (3-6 units): One of the following chosen in consultation with an advisor: EDM 695 (3 units) and Comprehensive Examination; EDM 698 (6 units) and Thesis.
Clear Conditional Admission: 
All Master's Programs
1. Completion of program prerequisites.
2. A GPA of 2.85 or higher in the last 60 semester units of coursework taken. Lower division and/or extension courses taken after obtaining the bachelor's degree are excluded from this calculation.
3. University master's degree policy requires students to attempt to fulfill the Graduation Writing Assessment Requirement (GWAR) during the first semester of residence. Students who have met this requirement during the baccalaureate degree program at CSULB or at another CSU campus are exempt.
4. To qualify for University admission in conditionally classified or classified graduate standing, a student must be accepted into a graduate degree program on a conditional basis or as clear conditional status.
Please Note: Prior to admission to the master's program, students may take up to, but no more than, 9 units of coursework which may apply to the master's program. There is no minimum number of units required for admission to the program.
In accordance with University policy of "Graduate Transfer Units by Extension", up to 6 units of approved extension/continuing education or transfer credit may be used on a graduate student's program. At the option of the college/school or department offering a graduate degree requiring a total of 30 units, this limit may be raised to 9 units of extension/continuing education credit if taken at CSULB or at another CSU campus.
Students must contact the advisor of Curriculum and Instruction Specialization no later than completing 6 units to plan an official program.
Students interested in the Specialization in Reading Language Arts must contact the advisor of Graduate Reading in the Department of Teacher Education prior to enrolling in any classes.
Advancement to Candidacy Requirements: All Master's Programs
1. All University requirements must be met;
2. Transcripts showing passed degree and the last 60 semester units or 90 quarter units;
3. Completion of all admission requirements for the Secondary Master’s Program Option;
4. A minimum 3.0 overall grade point average and a 3.0 grade point average in all units undertaken for the program (at least 6 units) with no incomplete grades;
5. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
6. Personal-Professional Attributes: Applicants are required to submit a typed essay of not less that three pages, double spaced. The essay shall address the following: how the program will help them make a contribution to the profession; experience in the profession; and any other information relevant to their personal/professional plans. In addition, students will complete a structured interview with the designated program faculty advisor;
7. An approved plan of study completed with the Curriculum and Instruction or Reading and Language Arts graduate advisor must be on file in the Graduate Office;
8. A student must be enrolled in regular session or the in summer session in which advancement to candidacy takes place. Please refer to the "Graduate Degrees and Other Post Baccalaureate Studies" section of the catalog for University advancement-to-candidacy requirements.

Elementary Education Courses (EDEL)

LOWER DIVISION
100. Introduction to Teaching and Learning in Diverse Contemporary Classrooms (1)
Prerequisite: Acceptance in the Integrated Teacher Education Program.
Addresses the qualities of an effective teacher, components and purposes of an effective professional portfolio, and critical issues in diverse contemporary classrooms.
Ten hours of field experience. Letter grade only (A-F).

200. Introduction to the Teaching Profession (3)
Introduction to the concepts and issues related to K-8 education in a democratic society.
Minimum 45 hours structured fieldwork in approved elementary, self-contained classroom required. A grade of "D" or better required for admission to the Multiple Subject Credential Program. Letter grade only (A-F).

UPPER DIVISION
300. Equity and Justice in Diverse Schools (3)
Prerequisites: EDEL 100 and 200, or approved articulated course from non-ITEP credentialing pathways, admission to Multiple Subject Credential Program.
Intended for ITPE students only. Addresses equity, social justice, cultural, and religious diversity. Models of English Language Development, including bilingual education, are introduced.
Letter grade only (A-F).

380. Teaching and Learning in a Democratic Society (3)
Corequisite: EDDP 303.
Professional, historical, social, philosophical, legal, and political concepts and issues related to K-8 education in contemporary society. 45 hours structured fieldwork in approved elementary, self-contained classroom required.
Required prerequisite for admission to the Multiple Subject Credential Program. Letter grade only (A-F).

413. Developmentally Appropriate Teaching Practices (2)
Research based theories and principles of development, learning, and motivation; developmentally appropriate teaching practices; subject specific pedagogy in health and physical education.
A minimum of 10 hours fieldwork in K-8 classrooms with a minimum 25% English Learners required. Letter grade only (A-F).

420. Teaching and Learning in the Kindergarten and Primary Grades (3)
Theories, research, policies, and current trends in teaching and learning in the kindergarten and primary grades. Integrates curriculum, pedagogy, and assessment with a special focus on diverse learners in the kindergarten and primary grades.
Ten hours of field work required.

430. Social and Cultural Diversity in US Schools (3)
Examination of personal attitudes towards social groups and diversity issues. Study of historical and structural factors that either empower or oppress people based on language, class, race, ethnicity, gender, sexual orientation, ability, or religion. Study of educational responses to diversity.
Letter grade only (A-F).

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431. Cultural and Linguistic Diversity in Schools (3)
Multicultural education, including concepts of culture, educational equity, social justice, multiple forms of diversity, and anti-bias/anti-racist curriculum. Understanding the role of language development theory, and instructional accommodations for diverse students.
Ten hours fieldwork required. Letter grade only (A-F). Same course as EDP 431 and LING 431. Not open for credit to students with credit in EDP 431.

439. SDAIE: Specially Designed Academic Instruction in English (3)
Theories of second language acquisition and practical applications, including methods of teaching content to English language learners; oral, reading and writing strategies; and curriculum development with application to K-12 teaching.
Letter grade only (A-F).

442. Teaching and Learning Language Arts, K-8 (RICA) (3)
Prerequisite: Admission to the Multiple Subject Credential Program.
Language arts and visual/performance arts curriculum; developmentally appropriate practice, assessment, and research-based instruction in culturally/historically diverse classrooms; English Language Development; SDAIE; relationships among oral language, writing, spelling, reading, literacy, and technology.
Ten hours fieldwork in K-8 classroom with a minimum 25% English Learners required. Letter grade only (A-F).

452. Teaching and Learning Reading, K-8 (RICA) (3)
Prerequisite: Admission to the Multiple Subject Credential Program or Education Specialist Credential Program.
Content, methods, and assessment for teaching reading to all students in culturally diverse, literacy-based classrooms, including phonemic awareness, phonics, vocabulary development, comprehension, diagnosis, and the use of technology.
Ten hours fieldwork in K-8 classroom with a minimum 25% English learners required. Letter grade only (A-F).

452B. Teaching Reading in Spanish and English, K-8 (BCLAD) (1-3)
Prerequisite: Admission to the Multiple Subject Credential BCLAD (bilingual) Program.
Theory, research, and practice of teaching reading in two languages, including transfer of literacy skills from L1 to L2. Examines teacher beliefs and assumptions about literacy development among language minority students.
Letter grade only (A-F).

452C. Biliteracy: Teaching English and Chinese K-8 (3)
Prerequisite: Admission to the Multiple Subject Credential Program or consent of instructor.
Content, methods, and assessment for teaching literacy in K-8 English and Chinese bilingual settings. Course lecture, activities, and assignments in English and Chinese. Ten hours fieldwork in elementary bilingual and sheltered English/Chinese classrooms required.
Letter grade only (A-F).

458. Newspaper in Education (1-3)
Use of the daily newspaper as an instructional tool in the classroom. Newspaper articles, features and editorials as a means of providing current content and bases for improvement of reading skills, interests, critical thinking and problem solving. Understanding mass media.
Same course as EDSE 458. Not open for credit to students with credit in EDSE 458.

462. Teaching and Learning Mathematics, K-8 (3)
Prerequisites: Admission to the Multiple Subject Credential Program.
Learning theories, research, and instructional practices for teaching mathematics to all students in culturally and linguistically diverse classrooms.
Ten hours fieldwork in K-8 classroom with minimum 25% English learners required. Letter grade only (A-F).

472. Teaching and Learning History-Social Science, K-8 (3)
Prerequisites: Admission to the Multiple Subjects Credential Program. Theory, research, and content for standards-based history-social science teaching in diverse classrooms.
Ten hours fieldwork in K-8 classroom with a minimum 25% English learners required. Letter grade only (A-F).

475. Teaching and Learning Science, K-8 (3)
Prerequisite: Admission to the Multiple Subject Credential Program.
Methods for teaching elementary school science. Development of sequenced, integrated, inquiry based science lessons addressing the needs of all learners.
Sixty contact hours, however face-to-face contact is less due to an on line distance component (see Schedule of Classes footnote).
Ten hours fieldwork in K-8 classroom with a minimum 25% English learners. Completion of TPA Task 3 is partial fulfillment of this course. Letter grade only (A-F). Course fee may be required. Same course as SCED 475. Not open for credit to students with credit in SCED 475.

482. Student Teaching in Diverse Classrooms (6)
Prerequisites: Admission to 2042 Multiple Subject Credential Student Teaching including successful completion of Teacher Performance Assessment (TPA) Tasks 1 and 2.
Integrated student teaching in K-8 public schools with separate eight week assignments at two of the following levels: K-2, 3-5, or 6-8. Emphasis on teaching in diverse, mainstreamed classrooms. Weekly seminar.
Credit/No Credit grading only with an equivalent grade of "A" or "B" and satisfactory completion of TPA Task 4 required for credit. May be repeated to a maximum of 16 units.

482B. Student Teaching in Bilingual Classrooms (6)
Prerequisite: Admission to Multiple Subject Credential BCLAD Student Teaching.
Teaching assignment for one semester in a public school in grades K-8 with assignments at primary and intermediate levels, or one semester in a designated bilingual classroom. Emphasis on teaching experiences with children of limited English proficiency and on primary language instruction. Weekly seminar.
Credit/No Credit grading only, with an equivalent grade of "A" or "B" required for credit. May be repeated to a maximum of 16 units in the same semester.

482C. Student Teaching in Bilingual Classrooms (8)
Prerequisite: Admission to Multiple Subject Credential BCLAD Student Teaching.
Teaching assignment for one semester in a public school in grades K-8 in a designated bilingual classroom under an emergency credential, with assignments at the primary and intermediate levels. Emphasis on teaching experiences with limited English proficient speakers and primary language instruction. Weekly seminar. Credit/No Credit grading only, with an equivalent grade of "C" or "D" required for credit. May be repeated to a maximum of 16 units in the same semester.

482D. Student Teaching in Diverse Classrooms (8)
Prerequisite: Admission to 2042 Multiple Subject Credential Student Teaching including successful completion of Teacher Performance Assessment Tasks 1 and 2.
One semester integrated student teaching assignment in a K-8 public school with assignments at two of the following levels: K-2, 3-5, or 6-8. Emphasis on experiences in diverse, mainstreamed classrooms with English Learners. One assignment includes gifted students, students with disabilities, or EL students.
Weekly seminar included. Credit/No Credit grading only with an equivalent grade of "A" or "B" required for credit including passage of TPA Task 4. May be repeated to a maximum of 16 units in different semesters.

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Elementary Education Courses (EDEL)

482E. Student Teaching in Bilingual Classrooms-Asian Languages (6)
Prerequisite: Admission to Multiple Subject Asian BCLAD Credential Program Student Teaching.
Integrated student teaching assignment in a K-6 public school at two of the following: K-2, 3-5, or 6-8 (one must be in an Asian Language/English bilingual setting). Emphasizes experiences in diverse, mainstream classrooms with Spanish bilinguals whose native language is one of the following: Cantonese, Khmer, Korean, Mandarin, or Vietnamese.
Seminar included. Credit/No Credit grading only with an equivalent grade of "B" or better required for credit including passage of TPA Task 4. May be repeated to a maximum of 15 units in the same semester.

482F. Student Teaching in Spanish Dual Language Development Classrooms (6)
Prerequisite: Admission to Multiple Subject Credential Student Teaching.
One semester integrated student teaching in a K-6 public school with assignments at two of the following: K-2, 3-5, or 6-8. Emphasizes experiences in diverse classrooms with English Learners. Practicum in using English for instruction. Spanish primary language management for explanation, clarification, and review.
Seminar included. Credit/No Credit grading only with an equivalent grade of "B" or better required for credit including passage of TPA Task 4. May be repeated to a maximum of 15 units in the same semester.

490. Special Topics in Elementary Education (1-3)
Topics of current interest in elementary education selected for intensive study.
May be repeated to a maximum of 6 units with different topics. Topics will be announced in the Schedule of Classes.

497. Independent Study (1-3)
Prerequisites: Consent of instructor and department chair.
Independent study undertaken under the supervision of a faculty member.
May be repeated to a maximum of 6 units but no more than 3 units applicable to credential or major requirement.

GRADUATE LEVEL

572A. Multiple Subject Internship (8)
Prerequisites: Admission to 2042 Multiple Subject Internship and advancement to Intern Student Teaching.
The Intern is a full-time teacher in a public school district with which CSULB has an intern agreement. Intern Student Teaching is a two-semester or one-semester culminating fieldwork experience. Weekly seminar, Credit/No Credit grading only with an equivalent grade of "A" or "B" required for credit including passage of TPA Task 4. May be repeated to a maximum of 16 units in different semesters.

572B. Multiple Subject Internship (8)
Prerequisites: Admission to 2042 Multiple Subject Internship and advancement to Intern Student Teaching.
The Intern is a full-time teacher in a public school district with which CSULB has an intern agreement. Intern Student Teaching is a two-semester or one-semester culminating fieldwork experience. Weekly seminar, Credit/No Credit grading only with an equivalent grade of "A" or "B" required for credit including passage of TPA Task 4. May be repeated to a maximum of 16 units in different semesters.

599. Special Topics in Teacher Education (1-3)
Study of special topic in teacher education. Students must be enrolled in a Masters or Advanced Credential or Specialist Program. Topics will be announced in the Schedule of Classes. Letter grade only. A-F. May be repeated to a maximum of 6 units with different topics.

Education Middle School Courses (EDMS)

GRADUATE LEVEL

692. Developing Teacher Leadership in Middle Level Education (3)
Prerequisite: Students must be enrolled in either a Teacher Education Masters Program, or the Tier II Professional Administrative Services Credential Program, or consent of instructor.
Involves administrators and teachers in developing middle level teacher leadership through the lens of teacher empowerment. Theory and practice of collaborative and action research models as tools for school improvement. Letter grade only (A-F). Same course as EDAD 653. Not open for credit to students with credit in EDAD 683 and EDEL 692.

Secondary Education Courses (EDSE)

UPPER DIVISION

445. United States Secondary Schools: Intercultural Education (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, M, N, P, or S); or admission in the Single Subject Credential Program; or permission of University Coordinator of the Single Subject Credential Program. Required course in the Single Subject Credential Program.
Critical reflection on multicultural education in a diverse society. Philosophy, history and sociology of education as fundamental to understanding contemporary secondary schools. Curriculum and student populations in the context of issues and controversies in education. Approved CLAD Certificate course (Domain 3). Fifteen hour fieldwork requirement. Letter grade only (A-F). May be repeated to a maximum of 6 units.

446. Curriculum, Instruction, Assessment and Classroom Management (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, M, N, P, or S); or admission in the Single Subject Credential Program; or permission of the University Coordinator of the Single Subject Credential Program. Required course in the Single Subject Credential Program. Explores systematic instruction, theories of learning, curriculum development, teaching strategies, assessment and evaluation of student progress, classroom management and discipline, and establishing successful learning environments for all students. Fifteen hour fieldwork requirement. Letter grade only (A-F). May be repeated to a maximum of 6 units.

459. SDAIE: Specially Designed Academic Instruction in English (3)
Thories of second language acquisition and practical applications, including methods of teaching content to English language learners, oral, reading and writing strategies, and curriculum development with application to K-12 teaching.
Letter grade only (A-F). Same course as EDEL 439 and EDP 439. Not open for credit to students with credit in EDEL 439 and EDP 439.

457. Reading and Writing in the Secondary School (3)
Prerequisite: EDSS 300 (A, C, D, F, G, H, M, N, P, or S); or admission in the Single Subject Credential Program; or permission
of the University Coordinator of the Single Subject Credential Program. Required course in the Single Subject Credential Program.
Emphasis on reading and writing assessment and instruction; textbook selection; vocabulary development; comprehension strategies; content area reading and study skills; writing instruction; English Language Development; the reading needs of less prepared, English language, and accelerated learners; and issues of diversity and equity.

Minimum fifteen hours of field work required. Letter grade only (A-F). May be repeated to a maximum of 6 units.

458. Newspaper in Education (1-3)
Use of the daily newspaper as an instructional tool in the classroom. Newspaper articles, features and editorials as a means of providing current content and bases for improvement of reading skills, interests, critical thinking and problem solving. Understanding mass media.
Some course as EDEL 458. Not open for credit to students with credit in EDEL 458.

490. Special Topics in Secondary Education (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in secondary education selected for intensive study. A student may enroll for a maximum of six units for certificate and degree purposes, subject to suitable change in course content. Topics will be announced in the Schedule of Classes. May be repeated to a maximum of 6 units with different topics.

497. Independent Study (1-3)
Prerequisite: Consent of instructor and department chair. Independent study undertaken under the supervision of a faculty member. May be repeated to a maximum of 6 units, but no more than 3 units applicable to credential or major requirement.

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Curriculum and Instruction Courses (EDCI)

GRADUATE LEVEL

500. Studies in Curriculum and Instruction (3)
Prerequisite: Admission to the Curriculum and Instruction Master’s Program or consent of instructor.
Introduction to graduate study. Overview of curriculum and instruction as a field of inquiry. Reading critically and conducting educational research. Using reflective strategies to analyze and improve professional practice. Letter grade only (A-F).

505. History of Education in the United States (3)
Prerequisite: Admission to an approved masters program or consent of the instructor. Must be taken during the first or second semester in the Master’s Program.
Advanced exploration of the major historical and philosophical paradigms of elementary and secondary education in the United States from which contemporary educational reform movements, curricula, and instructional practices have emerged. Letter grading only (A-F).

Prerequisite: Basic teaching credential or consent of instructor.
Advanced study in mathematics methods in K-5 settings by applying state and national mathematics standards and principles to research-based practices. Letter grade only (A-F).

530. Cross-cultural Education: US and Global Perspectives (3)
Prerequisite: Admission to an approved Master’s program or consent of the instructor.
Critical analysis of cultural diversity, educational equity, and global interdependence to enhance cross-cultural competence. Students will investigate research literature, apply research-based knowledge to their educational practice, and infuse cross-cultural concepts, skills, and attitudes into the K-12 curriculum. Letter grade only (A-F).

532. Socialization of Literacy in More Than One Language (3)
Prerequisites: Admission to the Masters of Education program, Option in Elementary Education, Dual Language Specialization, or consent of the instructor.
Examination of the social and cultural relationships between language and text from early utterances to adult literacy processes. Analyses of the contexts and conditions that influence literacy development for first and second language learners.
Ten hours fieldwork required. Letter grade only (A-F).

533. Action Research Methods: Teachers as Inquirers (3)
Prerequisite: Admission to the Curriculum and Instruction Master’s Program or consent of instructor.
Examination of goals and features of action research, with focus on developing skills in data collection and analysis in order to support sustained action research as a teacher/researcher in classroom settings.
Letter grade only (A-F).

540. Assessment in Teaching and Learning Mathematics (3)
Prerequisite: Basic teaching credential or consent of instructor.
Focuses on developing advanced competency in designing assessment methods aligned with the NCTM Assessment Standards and in interpreting and using assessment results for planning and teaching mathematics in linguistically and culturally diverse classrooms.
Letter grade only (A-F).

541. Designing Curriculum and Instruction in Primary and Second Language Settings (3)
Prerequisites: A valid California CLAD teaching credential or equivalent.
Principles of curriculum development, including primary, dual, and second language teaching and learning. Critical literacy: Includes research and program design internationally. (Offered in US or Mexico.)
Ten hours fieldwork required. Letter grade only (A-F).

550. Technology in Teaching and Learning Mathematics (3)
Prerequisite: Basic teaching credential or consent of instructor.
Advanced approaches to integrating contemporary technologies in mathematics planning, teaching, and assessment at the K-8 level. Focus on integrating technology to provide differentiated and individualized learning opportunities to meet the needs of linguistically and culturally diverse students.
Letter grade only (A-F).

560. Advanced Study in Mathematics Education (3)
Prerequisites: EDCI 500 and admission to an approved masters program or consent of the Instructor.
Advanced study and research in elementary school mathematics with an emphasis on content, method, and materials. Students participate in an investigation and appraisal of contemporary mathematical content, effective teaching methods, appropriate materials, assessment, and enrichment of the elementary mathematics program.
Letter grade only (A-F).
Curriculum and Instruction Courses (EDCI)

570. Advanced Studies in Teaching History-Social Science (3)
Prerequisites: EDEL 472; EDP 400; EDP 520 or 596, or equivalent.
Intensive study of selected topics related to teaching and learning
history-social science. Students engage in a systematic inquiry into
their own practice as they conduct a teacher action research project.
Letter grade only (A-F).

580. Algebra: Research-based Pedagogy for K-8 Teachers (3)
Prerequisite: Basic teaching credential or consent of instructor.
Integration of pre-algebra and algebra content and pedagogy in K-8
classrooms. Exploration of recent research trends, national policies,
and standards related to algebra curriculum and teaching.
Letter grade only (A-F).

615. Contemporary Issues in Elementary and Secondary
Education (3)
Prerequisites: EDCI 500 and admission to an approved masters
program or consent of the instructor.
Advanced analysis of current trends and issues in specific areas
of elementary and secondary education. In-depth exploration
of research perspectives and societal factors that influence
the direction of elementary and secondary education in America.
Letter grade only (A-F).

625. Analysis of Curriculum, Instruction, and
Assessment (3)
Prerequisites: EDCI 600, 605, EDP 400; and one of the following
EDP 520, 595, or 698 or EDCI 533; consent of the instructor.
Advanced study of curriculum design, instructional processes, and
student assessment through analysis of theory and research on
meeting and learning. California K-12 Content Standards and the
California Standards for the Teaching Profession are used to align
curriculum, instruction, and assessment.
Letter grade only (A-F).

695. Seminar in Curriculum and Instruction (1-3)
Prerequisites: EDCI 500, 600, 625 and advancement to candidacy,
or by permission of instructor.
Studies in curriculum and instruction. Course content will be
determined by the instructor offering each section.
Offered on an irregular basis; consult the Schedule of Classes.
Letter grade only (A-F).

697. Directed Research in Curriculum and Instruction
(1-3)
Prerequisites: Permission of instructor, department chair, and
associate dean.
Individual research or intensive study under the guidance of a
faculty member.
A student may enroll for one to three units to a maximum of six units
for certificate and degree purposes, subject to a suitable change in
course content. Application for enrollment must be made by October
1 for the spring semester or by March 1 for the fall semester or
summer session. May be repeated to a maximum of 6 units in
different semesters.

698. Thesis Study in Curriculum and Instruction (3)
Prerequisites: Advancement to candidacy; approval of thesis
director, department chair and associate dean.
Planning, preparation, and completion of thesis under supervision of
a thesis committee.
Application for enrollment must be made in the Graduate Studies
Office by October 1 for the spring semester or by March 1 for the fall
semester or summer session. Credit/no credit grading only. May be
taken for a maximum of 6 units in different semesters.

Early Childhood Education Courses (EDEC)

GRADUATE LEVEL

520. Early Childhood Curriculum and Assessment: Critical
Perspectives (3)
Examines the history of competing movements in American early
childhood curriculum thinking, program models, and current debates.
Develops curriculum and assessment measures that integrate anti-
bias, inclusive, and multicultural and global education into a unified
approach.
Ten hours of field work required. Letter grade only (A-F).

521. Historical and Contemporary Perspectives in Early
Childhood (3)
Historical and contemporary perspectives in early childhood education
and their impact on ECE programs, practices, and policies. Role
of national/global organizations in institutionalizing and promoting
various ECE perspectives and images of childhood. Debates over
perspectives.
Ten hours of field work required. Letter grade only (A-F).

522. Parent Education and Involvement in Educational
Environments (3)
Analysis of theories, research, issues, policies, programs, and
practices pertaining to parent involvement in diverse and inclusive
educational settings. Students design and implement home based and
schoolcenter based parent involvement activities.
Ten hours of field work required. Letter grade only (A-F).

523. Leadership, Advocacy and Supervision of Early
Childhood Programs (3)
Discussion of various types of ECE programs, program development
and implementation, different management approaches and leadership
tyles, and advocacy for young children and their families. Analysis of
position statements and state documents pertaining to ECE programs.
Ten hours of field work required. Letter grade only (A-F).

526. Advanced Study of Infant and Toddler Programs (3)
Prerequisites: EDP 301 or consent of instructor.
Analysis of theories, research, and policies on infant and toddler
care and education. Discussion of curriculum, environmental plan,
and assessment for infant and toddlers. Infant/toddler program
assessment.
Ten hours of field work required. Letter grade only (A-F).

621. Research Seminar in Early Childhood Education (3)
Prerequisites: EDP 400 and teaching experience.
Discussion and analysis of research including qualitative research
design and review of literature on topics pertaining to the field of Early
Childhood Education.
Ten hours of field work required. Letter grade only (A-F).

622. Seminar in Early Childhood Care and Education:
International Perspectives (3)
Discussion of ECE programs around the world. Analysis of social,
political, and economic influences on policies related to the care
and education of young children. Examines the role of Inter- national
and national agencies in protecting children's welfare and education.
Letter grade only (A-F).

695. Seminar in Early Childhood Education (3)
Prerequisites: Advancement to candidacy, approval of the Early
Childhood Education program advisor, and written application
submitted to the Graduate Studies Office by March 1 for the fall
semester or by October 1 for the spring semester.
For qualified candidates preparing to take the comprehensive
examination. Consideration of curriculum role of the school and
topics related to the effectiveness and excellence in early childhood
education.
Letter grade only (A-F).
697. Directed Research in Early Childhood Education (1-3)
Prerequisites: Permission of instructor, department chair, and associate dean.
Individual research or intensive study under the guidance of a faculty member.
Application for enrollment must be made by October 1 for the spring semester or by March 1 for the fall semester or summer session.
May be repeated to a maximum of 6 units in different semesters for certificate and degree purposes, subject to suitable change in course content.

698. Thesis Study in Early Childhood Education (3)
Prerequisites: Advancement to candidacy; approval of thesis advisor, department chair, and associate dean.
Planning, preparation, and completion of thesis under supervision of a thesis committee.
Application for enrollment must be made in the Graduate Studies Office by October 1 for the spring semester or by March 1 for the fall semester or summer session. Credits in credit only. May be repeated to a maximum of 6 units in different semesters.

Reading Education Courses (EDRG)

GRADUATE LEVEL

520. Resources for Reading Teachers (3)
Prerequisite: Admission to the Reading Certificate Program or consent of instructor.
Exploration of appropriate and theoretically grounded reading resources and strategies that can be used to help all children succeed in reading. Includes survey and analysis of age appropriate multimodal texts for children and adolescents.
Letter grade only (A-F).

540. Advanced Studies in Literacy (3)
Prerequisite: A valid teaching credential or admission to an approved masters, certificate, or advanced credential program, or consent of instructor.
Emphasizes advanced study of literacy research, theory, and practice. Survey of issues of first and second language acquisition/development, and curriculum trends in literacy.
Letter grade only (A-F).

543. Integration of Technology in Reading/Language Arts (3)
Prerequisites: EDP 443 or ETEC 444 or equivalent, or a course approved by CTC, or a course approved by CCCC to meet the Level I technology requirement or approval of the instructor.
Investigation and evaluation of software and media programs for reading/language arts. Current issues in technology, change strategies for staff development, integration of technology in the curriculum.
Letter grade only (A-F).

544. Foundations of Literacy Research (3)
Prerequisite: California Reading Certificate or consent of instructor.
Introduction to critical analysis of literacy research with emphasis on classic and contemporary studies.
Includes experimental designs, descriptive studies, case studies, correlational research, ethnographies, and the teacher as researcher.
Letter grade only (A-F).

551. Assessment and Instruction in Reading and Writing (3)
Prerequisites: Admission to Reading Certificate Program or consent of instructor.
Comprehensive study of literacy assessment and instruction including examination and evaluation of effective literacy procedures, strategies, and materials. Emphasis on detection and correction of reading difficulties.
Fieldwork required. Letter grade only (A-F).

551B. Assessment of Literacy with Bilingual Students (3)
Prerequisites: Speaking and reading competence in Spanish; consent of the instructor.
Evaluation of measures, strategies, and materials used to assess literacy in bilingual students. Special emphasis on issues regarding the interpretation of assessment data, program placement, and instruction of English learners.
Requires diagnostic assessment/intervention plan. Participation by speakers of languages other than Spanish is possible as literacy assessments in diverse languages become available. Letter grade only (A-F).

554. Reading/Language Arts Curriculum: Leadership and Supervision (3)
Prerequisite: California Reading Certificate or consent of instructor.
Examines varied roles and responsibilities of the Reading/Language Arts Specialist including supervision, curriculum development, evaluation, program development, and leadership.
Letter grade only (A-F).

556. Theoretical Models and Processes of Reading (3)
Prerequisite: California Reading Certificate or consent of instructor.
Exploration and analysis of current and historical theoretical models of the reading process. Examination of their influence on curriculum and instructional issues in literacy.
Letter grade only (A-F).

558. Language Study for Reading Teachers (3)
Prerequisites: EDRG 540 and admission to the Reading Certificate program or consent of instructor.
Relationships among phonology, morphology, semantics, syntax, pragmatics, and the teaching of reading. Focus on phonemic awareness, phonics, decoding strategies, vocabulary, spelling, grammar skills, and English language learners.
Letter grade only (A-F).

559. Practicum in Teaching Reading/Language Arts (3)
Prerequisites: EDRG 551 or equivalent, valid California Reading Certificate or consent of instructor.
Includes clinical practicum and seminar on diagnosis and providing appropriate intervention for children with delayed literacy development.
Letter grade only (A-F).

695. Seminar in Reading (3)
Prerequisites: Advancement to candidacy approval of Reading Program advisor, and written application submitted to the Graduate Studies Office by October 1 for the spring semester; successful completion of all required coursework for the Master of Arts in Education, Option in Elementary or Secondary Education, Specialization in Reading.
Letter grade only (A-F). May be repeated to a maximum of 6 units in different semesters.

697. Directed Research in Reading (1-3)
Prerequisites: Permission of instructor, department chair, and associate dean. Individual research or intensive study under the guidance of a faculty member.
Application for enrollment must be made by October 1 for the spring semester or by March 1 for the fall semester or summer session.
May be repeated to a maximum of 6 units in different semesters.

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505. Technology in Teaching and Learning Mathematics (3)  
Prerequisites: Basic teaching credential, EDME 501 and EDME 502 or equivalent, or consent of instructor. 
Advanced approaches to integrating contemporary technologies in teaching and learning mathematics. Focus on integrating technology to provide differentiated and individualized learning opportunities to meet the needs of linguistically and culturally diverse students. 
Letter grade only (A-F).

520. Algebra: Research-Based Pedagogy (3)  
Prerequisite: Basic teaching credential or consent of instructor.  
Integration of pre-algebra and algebra content and pedagogy in mathematics classrooms. Exploration of recent research trends, national policies, and standards related to algebra curriculum and teaching.  
Letter grade only (A-F).

550. Global Perspectives in Mathematics Teaching (3)  
Prerequisite: Basic teaching credential or consent of instructor.  
Developing global perspectives in mathematics teaching through case study and lesson analysis; exploring, analyzing, and applying multifaceted teaching approaches of different cultural and educational systems.  
Letter grade only (A-F).

695. Advanced Studies in Mathematics Education (3)  
Prerequisites: Advancement to candidacy in the Mathematics Education Program; approval of the Program Advisor; written application to take the comprehensive examination to the College of Education Graduate Office by March 1 for the fall semester or by October 1 for the spring semester.  
Studies of problems and issues in the teaching and learning of mathematics. Relating research to teaching practice. For qualified candidates preparing to write the comprehensive examination.  
Letter grade only (A-F).

696. Thesis Study in Mathematics Education (3)  
Prerequisites: Advancement to candidacy in the Mathematics Education Program; approval of thesis advisor, department chair, and associate dean.  
Planning, preparation, and completion of thesis under supervision of a thesis advisor. Application for enrollment must be made in the Graduate Studies Office by October 1 for the spring semester or by March 1 for the fall semester or summer session.  
Credit/No Credit grading only. May be repeated for a maximum of 6 units in different semesters.
Theatre Arts
College of the Arts

Department Chair: Joanne Gordon
Department Office: Theatre Arts (TA), Room 221
Telephone: (657) 951-7691
Faculty: Craig Fleming, Joanne Gordon, Holly Heubinger, W. Jeffrey Hickman, David Jacques, Danita Korogolsky, Barbara Matthews, Patrick McDonough, Kon Novos, Hugh O'Gorman, Orlando Poblo, Nancy Jo Smith, Morris Wara
Undergraduate/Graduate Advisor: Barbara Matthews
Administrative Coordinator: Micky Small

Career Possibilities
Actor • Director • Stage Manager • Lighting Designer • Costume Designer • Set Designer • Technical Director • Teacher • Theatre Administrator • Theatre Manager • Director of Development • Box Office Manager • Managing Director • Artistic Director • Marketing Director • Scenographer • Playwright • Writer (Some of these, and other careers, require additional education or experience. For more information, see www.careers.csulb.edu.)

Introduction
The Department of Theatre Arts offers the Bachelor of Arts degree with opportunities for options in Performance (acting) and Technical Theatre (scenery, lighting, costume). This flexibility of program has been organized to serve student needs in three principal areas: (1) Enrichment of the student's liberal arts background, (2) Development of interests and skills in the theory and practice of Theatre Arts, (3) Preparation for theatre professions in community theatre, professional theatre, educational theatre, and professional theatre. Courses offered cover the full range of world drama from both the viewpoint of theatre and dramatic literature.

The W. David Stevens Memorial Scholarship in acting, named for the first faculty member of the theatre program, is awarded annually to new students who exhibit potential in the field of performance. This award consists of a modest sum and is determined through competitive audition judged by faculty. In addition, the Fine Arts Affiliates of the University and the Dramatic Allied Arts Guild of Long Beach provide monetary awards to qualified students in all areas of theatre. For further information contact the Department of Theatre Arts.

The Department of Theatre Arts offers graduate study leading to the Master of Fine Arts degrees. The candidate is urged to observe the general requirements stated in this Catalog, as well as the specific departmental requirements stated herein and, more fully, in the Department Plan, available upon request from the department.

All majors are required to participate in the departmental production program. Furthermore, majors enrolled in any acting course are expected to audition and participate in departmental productions in that semester. The student is expected to accept any role in which he/she is cast. Majors are also expected to seek approval from their advisor before making any commitment to a theatre program which lies outside of the departmental academic program.

The Theatre Arts Department holds division II membership in the National Association of Schools of Theatre (National Association of Schools of Theatre, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700). The Bachelor of Arts and the Master of Fine Arts degrees are accredited by the association. The department is also a member in good standing with the Theatre Communications Group, the International Theatre Institute of the United States and the United States Institute of Theatre Technology.

Undergraduate Programs

Bachelor of Arts in Theatre Arts
(code THEABA01) (120 units)

The Bachelor of Arts in Theatre Arts provides the opportunity for the student to gain a broad exposure to the discipline. The curriculum requires study in Acting, Technical and Design Crafts, the History, Literature and Criticism of Theatre, and Directing. After completion of the lower division core students may choose to audition/interview for placement in the performance or design options.

Requirements
The Theatre Arts core is required for all majors regardless of option.

Lower Division Core: THEA 101, 111, 114A, 142, 146, 148, 201, 271.
Upper Division Core: THEA 321, 322, 324, 374, 426.

And three (3) units of production from the following: THEA 310A, 310B, 340A, 340B, 410A, 410B, 440A, 440B.

No more than eight units of Theatre Arts activity (cast and/or crew) will apply toward degree requirements.

Crow requirements for all majors: One major running crew assignment in residence for each of the areas of costume, stagecraft and lighting to be satisfactorily completed.

Students with transfer credit in those related courses must fulfill the same running crew requirements within the first three semesters of matriculation in the University.

At the beginning of the semester, all incoming students, including transfer students (including those who have been inactive for a year in our department), are required to audition or interview. Auditions and interviews are conducted by appropriate faculty/staff members. These auditions are required for admittance to certain upper division classes and are therefore used for appropriate placement of students at their level of competency as determined by the faculty.

Option in Performance: Acting
(code THEABA02) (120 units)

Lower Division Core: THEA 101, 111, 114A, 142, 146, 148, 201, 271.

Upper Division Core: THEA 321, 322, 324, 374, 426.

In addition to the core courses take all of the following: THEA 112, 114B, 214, 262. Select nine (9) units from the
following: THEA 144, 216, 290, 312, 316, 318, 375, 413, 414, 415, 462, 476, 490, 498.

All performance majors will also fulfill four performance requirements to graduate. This requirement is met through acting, understudying, directing or assistant directing for a Mainstage or Second Stage production; acting or directing for a Showcase production; or by a special assignment approved by the performance faculty.

**Option in Technical Theatre:**
Scenery/Costume/Lighting Design (code THEABA03) (120 units)

Lower Division Core: THEA 101, 111, 114A, 142, 146, 148, 201, 271.

Upper Division Core: THEA 321, 322, 324; 374, 426.

In addition to the core courses taken, all of the following: THEA 144, 341, 342, 441, 442, 444, 446, 447, 448, 449, 451, 470, 498.

All technical theatre majors will also fulfill four production requirements in order to graduate. This requirement is met through scenic, lighting, sound, costume, or makeup design or assistant design; technical direction or assistant; prop master; master painter; stage management or assistant; cutter or stitcher; or by special assignments as approved by the faculty in the appropriate area.

**Minor in Theatre Arts (code THEAM01)**

This minor may be combined with any major at CSULB except the BA in Theatre Arts. Students are admitted to the minor after having completed a minimum of 30 units of college level coursework including all 12 units of General Education Foundation courses with a cumulative GPA of 3.0 or higher.

**Requirements**
1. Complete 12 units: THEA 101, 111, 114A or 142.
2. Select 9 units from the following (at least 3 must be upper division): THEA 112, 114A, 114B, 142, 146, 148, 214, 262, 316, 374, 433, 426.
3. Recommended GE Capstone (Note: will not be counted as part of the minor): THEA 324.

**Graduate Programs**

**Master of Fine Arts in Theatre Arts**

The Master of Fine Arts Degree in Theatre Arts is the terminal degree offering the professional training deemed necessary by the major Theatre Arts Schools in the United States.

All students admitted to the MFA program are members of California Repertory Company and are subject to the operating procedures of the company. CalRep, the professional arm of the Theatre Arts Department, prepares and performs plays from the canon of international dramatic literature.

MFA Transfer and Residence Policy

Transfer credit allowable toward the MFA may not exceed 20 units. The Graduate Advisor must approve all transferred credit use in the MFA Program.

**Criteria for Admission to the Program**

1. Students applying for the MFA program must have completed a bachelor's or master's degree in Theatre Arts from an accredited institution with a 3.0 GPA in upper-division theatre courses, meet University admission requirements, and submit evidence of creative ability and professional intent in one of the following areas: Acting, Technical Theatre/Design, Theatre Management, Dramatic Writing.

2. When an undergraduate degree has been completed in a program having different requirements than those at CSULB or in some field other than Theatre Arts, additional preparation and time may be required before the student can be considered for classified status in the degree program.

3. Units of credit from coursework in a graduate program may be acceptable after review by the faculty evaluation committee, and approval by the Dean.

4. Admission to the program in Acting requires audition and interview. Admission to the program in Technical Theatre/Design requires interview and/or submission of original work such as manuscripts, designs, renderings, slides, digital images, models, and/or working drawings.

5. All students admitted into the MFA program will be admitted as conditionally classified. In order to obtain fully classified status, a committee from the Theatre Arts faculty must authorize continuation in the program after evaluating academic progress, individual skills development, and review of performance or portfolio at the end of the student's first full year of residence.

**Advancement to Candidacy**

1. Achieve fully classified status;
2. Remove all undergraduate deficiencies determined by the departmental evaluation and the Dean of the College;
3. Submit a program for approval by the department chair, the graduate advisor and the Dean of the College.

**Requirements**

The MFA degree is a 60-unit degree requiring full-time residency. Course requirements are arranged according to the following structure depending on the student's choice of option.

The options share a common core of courses, which offers study in aesthetics, conceptualization, history, theory, literature, and research. The remainder of the courses offers students the opportunity further to develop artistic skills in their particular area of option. The program culminates in a major creative project and written project report.

**Option in Acting (code THEAM01)**

The Acting option requires work in voice, movement, and process each semester. Process classes explore a wide range of acting styles. Ongoing performances in public presentations are required.

Option in Technical Theatre/Design (code THEAMF02)

The Technical Theatre/Design option requires work in a variety of skills development that emphasizes the technological as well as the artistic aspects of design and execution. Continuous advancing assignments in productions for public performances are required.

Requirements

Concentration core classes: THEA 517 (4 units), 518 (4 units), 519 (4 units), 523, 524, 541, 544, 550, 552, 584 (2 units) 696, 699 (2 units).

Costume Concentration: 60 units: THEA 548A/B, 556A/B, 656A/B, 540, 554, 583, and 5 units of electives.

Electives, with advisor's approval, can be taken from the University at large. Recommended electives include courses from Theatre Arts, Art, Art History, Music, and Design.


Electives, with advisor's approval, can be taken from the University at large. Recommended electives include courses from Theatre Arts, Art, Art History, Music, and Design.

Lighting Concentration: THEA 548A/B, 648A/B, 649A/B, 545, 555, and 7 units of electives.

Electives, with advisor's approval, can be taken from the University at large. Recommended electives include courses from Theatre Arts, Art, Art History, Music, and Design.

Option in Theatre Management (code THEAMF03)

The option in Theatre Management requires work in a number of different areas including front of house, box office management, press relations, outreach, development, contracts, and fundraising. Successful completion of different assignments in each area is necessary for advancement in the program.

60 units to include: THEA 502, 503, 504, 507, 517 (4 units), 518 (4 units), 519 (4 units), 523, 524, 550, 602 (6 units), 603, 636, 696 (3 units), MKTG 502, ACC 500, and 6 units of electives. Electives with advisor's approval may be taken from the University at large.

Option in Dramatic Writing (code THEAMF04)

The MFA in Theatre Arts, Option in Dramatic Writing is offered by the Department of Theatre Arts, with primary support from the Department of Film and Electronic Arts, and additional support from the Department of Communication Studies and the Department of Comparative World Literature and Classics. The MFA in Theatre Arts begins with a focus on the professional training so necessary by the major theatre arts schools in the United States. The MFA in Theatre Arts, Option in Dramatic Writing prepares students for university and college teaching and for positions in the entertainment, media, and publishing industries. "Dramatic Writing" is defined as creative (fiction and non-fiction) writing for all forms and genres of collaborative and performance media. The MFA in Theatre Arts, Option in Dramatic Writing culminates in a thesis writing project of publishable/producing quality.

Criteria for Admission to the Program

1. Students applying for admission to the MFA program should have completed a bachelor’s or master’s degree in Theatre Arts from an accredited institution with a minimum 3.0 GPA in upper division theatre courses, meet university admission requirements, and submit evidence of creative ability and professional intent in Dramatic Writing.

2. When an undergraduate degree has been completed in a field other than that named above, additional preparation may be required before the student can be considered for classified status in the degree program. (Although the Graduate Advisor will consider each student's academic background in determining what courses need to be taken, the following are generally required: THEA 321 and THEA 322 Theatre History, Theatre 324 Theatre Today, and THEA 426 Dramatic Theory and Criticism.) Transferable credit allowable toward the MFA may not exceed 20 units. The Graduate Advisor must approve all transferred credit use in the MFA Program.

3. Admission to the program in Dramatic Writing requires interview and submission of portfolio of creative writing.

4. All students admitted into the MFA program will be admitted as conditionally classified. In order to obtain fully classified status, a committee from the Theatre Arts faculty must authorize continuation in the program after evaluating academic progress, individual skills development, and review of portfolio at the end of the student's first full year of residence.

Advancement to Candidacy

1. Attain fully classified status;
2. Remove all undergraduate deficiencies as determined by the departmental evaluation and the Dean of the College;
3. In consultation with the Graduate Advisor, submit a program for approval to the department chair and the Dean of the College.

Requirements for Completion

The MFA in Theatre Arts, Option in Dramatic Writing degree program is 60 units, normally requiring full-time residency. The program culminates in a major thesis writing project of publishable/producing quality. Course requirements are arranged according to the following structure:

Core A - Dramatic Writing (12 units): Take the following:
FEA 604A, 604B, 604C, 604D

Core B - (9 units): History, Theory, Criticism, Production and Writing
Required courses: THEA 523, 524, 696
Core B 1 - (12 units) chosen from: THEA 374*, 375*, 380, 426*, 427*, 507, 550, 590, 604

Core C - Rhetorical Theory, Criticism, and Communication Studies (6 units): Take the following: COMM 633, 640

Core D - Comparative World Literature and Classics (6 units): Two courses chosen from: CWL 502, 503, 504, 537, 538, 540, 545, 549 (topic dependent per advisement), 552, 561

MFA Thesis (6 units): THEA 699
Effective Course (9 units): Effective Courses
Master of Business Administration /
Master of Fine Arts in Theatre Management (code THEAMZ01)

The MBA/MFA degree will prepare arts professionals in all areas of both arts administration and business for professional careers in arts management—in performing and exhibiting arts organizations, in arts service organizations, in government, funding agencies and arts councils. The program prepares students for high level administrative positions and provides the background essential for advancement in professional management careers.

Admission Criteria for MBA/MFA

Candidates for this program must hold the equivalent of an undergraduate degree from an accredited institution of higher learning with a minimum of 24 units of upper division work in Theatre Arts. They should have achieved an undergraduate grade point average (GPA) of at least 2.75 (B-) and 3.0 GPA in upper division theatre courses. All candidates for admission are required to complete the Graduate Management Admission Test (GMAT) and achieve a score of at least 475. The GMAT measures general verbal, mathematical, and analytical writing skills that are developed over a long period of time and are associated with success in the first year of study at graduate schools of management. For each applicant, there is a departmental evaluation, based upon diagnostic examination and an analysis of official undergraduate transcripts to determine deficiencies and all areas which must be strengthened by the graduate program.

Requirements

Business Core 1 (12 units)
ACCT 500, FIN 501, MGMT 500, MKTG 500

Business Core 2 (21 units)
ACCT 610, FIN 601, HRM 6201, IS 601, IS 602, MGMT 647, MKTG 661

Business Elective (3 units)

Theatre Core (9 units)
THEA 523, 524, 525

Theatre Management (24 units)
THEA 502, 503, 504, 507, 550, 602 (5 units), 603

Theatre Practicum (12 units)
THEA 517 (4 units), 518 (4 units), 519 (4 units)

Culminating Thesis/Project (3 units)
THEA 699

Theatre Electives (6 units)
Electives from the University at large through advisement

Courses (THEA)

LOWER DIVISION

101. Fundamentals of Script Analysis (3)
Basic approach to analysis of play script, intended to provide theatre practitioners and generalists with tools necessary to understand literary text of a play, and its application to work in performance, design and critical/historical studies.
Letter grade only (A-F).

110A.B. Theatre Arts Activity—Cast (1,1)
Participation in acting projects; open to students cast in University-sponsored productions.
Letter grade only (A-F). (60 hours minimum participation time or major crew assignment.)

111. Theatre Arts Showcase (1)
Participation in weekly projects dealing with all aspects of Theatre Arts.
Credit/No Credit grading only. May be repeated to maximum of 6 units.

112. Beginning Voice and Speech for the Actor (3)
Theory and practice in developing command of oral techniques for stage including breath support, resonance, free vocal release, and articulation.
Letter grade only (A-F). (2 hours lecture, 2 hours activity)

113. Introduction to Acting (3)
Prerequisite or Corequisite: A General Education Foundation course.
Review of actors and acting, past and present; their work as artists; basic exercises in voice, diction, movement, and personality projection. Open only to non-Theatre Arts majors. Attendance at University sponsored productions required.
Letter grade only (A-F).

114A. Fundamentals of Acting (3)
Development and preparation of the actor's instrument: voice, body, imagination. Exercises in relaxation, sensory work, motivations and relationships. Individual study of textual problems for actors.
Letter grade only (A-F). (2 hours lecture, 2 hours activity)

114B. Fundamentals of Acting (3)
Prerequisite: THEA 114A or equivalent.
Development and preparation of the actor's instrument: voice, body, imagination. Exercises in relaxation, sensory work, motivations and relationships. Individual study of textual problems for actors.
Letter grade only (A-F). (6 hours lab)

122. Theatre for the 21st Century (3)
Prerequisite/Corequisite: A General Education Foundation course.
Exploring live theatre in the context of emerging technologies.
Letter grade only (A-F). Not open for credit to students with credit in THEA 124.

140A.B. Theatre Arts Activity—Crew (1,1)
Participation in technical play production projects; specific assignment determined through consultation with faculty or staff supervisors of Scenery, Lighting, Costume, Makeup, Sound, Tech Production, or Management areas.
Letter grade only (A-F). (60 hours minimum participation time or major crew assignment)

142. Elementary Stagecraft (3)
Basic physical equipment of the theatre, elementary scenic design, construction, rigging, painting and drafting. Practical lab assignments dealing with preparation of scenery and props for University sponsored productions.
Letter grade only (A-F). (6 hours activity)

144. Stage Makeup (3)
May be taken concurrently with THEA 146.
Practical introduction to techniques of theatrical make-up. Students must be clean-shaven due to nature of course. Preparation of make-up material for University sponsored productions.
Letter grade only (A-F). (2 hours lecture, 2 hours lab)
146. Costume Crafts (3)
May be taken concurrently with THEA 144.
Techniques of costume and accessory construction for stage; use of fabrics, materials and equipment. Preparation of costumes and accessories for University sponsored productions.
Letter grade only (A-F). (2 hours lecture, 4 hours lab)

148. Stage Lighting (3)
Theory and practice of modern stage lighting; functions of light; design; layout; properties of various instruments; practical experience in hanging and focusing of equipment for University sponsored productions.
Letter grade only (A-F). (2 hours lecture, 4 hours lab)

201. Writing for the Theatre Arts (3)
Prerequisite: ENGL 100.
The study and application of rhetorical strategies of invention, arrangement, and style to writing expository, narrative, and argumentative prose with special emphasis on particular features of writing in the Theatre Arts.
Letter grade only (A-F). (2 hours lecture, 4 hours lab)

210A.B. Theatre Arts Activity — Cast (1,1)
Participation in acting projects; open to students cast in University sponsored productions.
Letter grade only (A-F). (50 hours minimum participation time or major crew assignment)

214. Intermediate Acting (3)
Prerequisites: THEA 112, 114A and B. Should be taken directly following THEA 114B.
Introduction to scene study. Application of techniques of body, voice and imagination to dramatic texts thereby stimulating an acting process for role development.
Letter grade only (A-F). (5 hours lab)

215. Introduction to Audition Techniques (3)
Prerequisite or Corequisite: THEA 114A.
Introduction to fundamentals of auditioning for theatrical productions. For beginning actors. Focus on preparing and coaching monologues, dramatic sides and callbacks.
Letter grade only (A-F). (6 hours lab)

240A.B. Theatre Arts Activity — Crew (1,1)
Participation in technical play production projects; specific assignment determined through consultation with faculty or staff supervisors of Scenery, Lighting, Costume, Makeup, Sound, Tech Production, or Management areas.
Letter grade only (A-F). (50 hours minimum participation time or major crew assignment)

262. Beginning Movement for the Actor (3)
Beginning movement training for the actor based on physical conditioning and non-verbal communication related to beginning acting process.
Letter grade only (A-F). (6 hours activity)

271. Stage Management (3)
Management skills required for the professional stage manager. Examines responsibilities, and function of stage manager in relation to director, designer, and performer.
Letter grade only (A-F). (2 hours lecture, 2 hours activity)

290. Special Topics in Theatre Arts (3)
Prerequisite: Consent of Instructor.
Topic of current interest in Theatre Arts selected for intensive study. Topics will be announced in Schedule of Classes.
Letter grade only (A-F). May be repeated to a maximum of 9 units with different topics in different semesters. (2 hours lecture, 2 hours activity)

UPPER DIVISION

310A.B. Theatre Arts Activity — Cast (1,1)
Participation in acting projects; open to students cast in University-sponsored productions.
Letter grade only (A-F). (60 hours minimum participation time or major crew assignment)

312. Applied Voice and Speech for the Actor (3)
Prerequisites: THEA 112 or equivalent.
Development of vocal techniques for theatre, including variety of quality, force, tempo and pitch, scansion, and imagery. Application of basics learned in 112 to more complicated dramatic texts.
Letter grade only (A-F). (2 hours lecture, 2 hours activity)

316. Rehearsal and Performance (3)
Prerequisites: THEA 114A and 114B.
Performance based class focusing on the interrelationship of actor and director. Working with director on creative processes, interpreting demands of director and combining these with actor's creative processes.
Letter grade only (A-F). (6 hours lab)

318. Advanced Scene Study (3)
Prerequisites: THEA 214, 316 and consent of instructor.
Intensive scene study in modern dramatic texts. Class is designed to continue and strengthen process of actor role development through scenic exercises.
Letter grade only (A-F). May be repeated to a maximum of 6 units. (6 hours lab)

321. History of Theatre and Drama to 1660 (3)
Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.
Development of Theatre Arts from primitive origins to the 17th Century.
Letter grade only (A-F).

322. History of Theatre and Drama Since 1660 (3)
Prerequisite: THEA 321 or consent of instructor.
Development of Theatre Arts from 17th Century to present.
Letter grade only (A-F)

324. Theatre Today (3)
Prerequisites: Completion of the G.E. Foundation, one or more Explorations courses, and upper-division standing.
Course examines current trends, achievements and problems in contemporary western theatre and dramatic literature. Particular attention will be paid to multicultural expression in the theatre.
Same course as CWL 324. Not open for credit to students with credit in CWL 324.

340A.B. Theatre Arts Activity — Crew (1,1)
Participation in technical play production projects; specific assignment determined through consultation with faculty or staff supervisors of Scenery, Lighting, Costume, Makeup, Sound, Tech Production, or Management areas.
Letter grade only (A-F). (60 hours minimum participation time or major crew assignment)

341. Presentation Techniques for Theatre (3)
Develop understanding of form, shape, line, and tone through exercises with various media. Explore approach to visualization and presentation techniques for theatre design.
Letter grade only (A-F). (2 hours lecture, 2 hours activity)

342. Advanced Technical Theatre (3)
Prerequisite: THEA 142 or consent of instructor.
Investigation of tools, materials, and procedures used in scenic construction and rigging. Supervised practical application of the techniques through scenic drafting and work on University sponsored productions.
(2 hours lecture, 2 hours activity)
352. Foundations of Visual Expression (3)
Introduction to basics of visual composition stressing a link to Theatre Design. Emphasizes development of visual discipline, creative skills and poetic and artistic nature of theatre design. Letter grade only (A-F) (2 hours lecture, 2 hours activity)

364. Stage Combat (3)
Prerequisite: THEA 202 or consent of instructor.
Practical study of unarmed combat for stage. Covers technique, safety, and application of combat skills for acting process. Letter grade only (A-F) (6 hours activity)

374. Fundamentals of Directing (3)
Prerequisite: THEA 101 and 111A or consent of instructor.
Introduction to script analysis, rehearsal techniques, director’s prompt book and organization of stage space and time. Using contemporary realistic plays to develop actor/director communication skills. Intensive scene work. Letter grade only (A-F) (6 hours lab)

375. Intermediate Directing (3)
Prerequisite: THEA 374 and consent of instructor.
Intensive work using nonrealistic plays to develop director’s concept, advanced script analysis and approach to challenges of style. Introduction to collaboration with set, lighting, costume, sound, and make up designers. Intensive scene work with student actors focusing on rehearsal techniques. Letter grade only (A-F) (6 hours lab)

380. Playwriting (3)
Creative writing for the stage. Study of character, concept, theme, dialogue and structure. Letter grade only (A-F)

410A/B. Theatre Arts Activity — Cast (1,1)
Participation in acting projects; open to students cast in University-sponsored productions. Letter grade only (A-F) (60 hours minimum participation time or major crew assignment)

413. Film/Video Acting (3)
Prerequisite: THEA 318 and consent of Instructor
Acting techniques required for stylistic range and variety of film and television scripts. Video recording and playback of scenes and film acting exercises to adjust acting skills to these media. Letter grade only (A-F) (6 hours activity)

414. Period Scene Study (3)
Prerequisite: THEA 318 and consent of instructor.
Scenes from period plays including Greek, Shakespeare, Comedy of Manners. Analysis of play’s structure in terms of language, background, human behavior. Letter grade only (A-F) (6 hours activity)

415. Preparing for the Profession (3)
Prerequisite: THEA 318 or consent of instructor.
Designed for actor with auditioning skills and practical business information necessary for acting professionally. Topics include: resume, biography, audition, agent, casting, director, unions, contracts, job market and career strategies. Letter grade only (A-F) (6 hours activity)

425L Theatre and Cinema (3)
Prerequisite: Completion of G.E. foundation, one or more Explorations courses, THEA 324L, and upper division standing. Examines relationships between theatre and cinema both historically and conceptual problems of realism, comedy and melodrama. Letter grade only (A-F).

426. Dramatic Theory and Criticism (3)
Prerequisite: THEA 101 or consent of instructor.
Study of the major theories of dramatic literature and performance. Analysis of dramatic works from the standpoint of genre, style and structure. Letter grade only (A-F).

427. Dramatic Construction (3)
Prerequisite: Completion of Foundation; at least one exploration course in Theatre Arts or in literature (an English literature course, a comparative world literature course, a foreign language literature course, or other literature course); and upper division standing.
Examination of dramatic and literary theories that focus on narrative construction as applied to drama, film, storytelling and screenplay. Letter grade only (A-F)

433. Design for Theatre (3)
Prerequisite: THEA 142, 145, 148 or consent of instructor.
Integration of styles and methods of theatre/visual, set, lighting, sound, and lighting design. Letter grade only (A-F)

440A/B. Theatre Arts Activity — Crew (1,1)
Participation in technical play production projects; specific assignment determined through consultation with faculty or staff supervisors of Scenery, Lighting, Costume, Makeup, Sound, Tech Production, or Management areas. Letter grade only (A-F) (60 hours minimum participation time or major crew assignment)

441. Scenographic Techniques (3)
Prerequisite: THEA 142 or consent of instructor.
Study of the techniques of designing, construction, and running of sets and scenery. Includes both traditional and computer aided design and drafting tools. Letter grade only (A-F) (2 hours lecture, 2 hours lab)

442. Scenic Technical Skills (3)
Prerequisite: THEA 142 or consent of instructor.
Use of materials and construction methods in stage properties, set dressing and furniture. Painting techniques for scenery and properties. Supervision in practical application of these materials in University-sponsored productions. Letter grade only (A-F) (2 hours lecture, 2 hours lab)

444. Scenic Design (3)
Prerequisite: THEA 101, 142, 433.
Comprehensive study in the techniques and art of scenic design. Course includes practical hands-on instruction in design conceptual development and two and three dimensional visual expressions of ideas. Letter grade only (A-F) (2 hours lecture, 2 hours lab)

446. Costume Design (3)
Prerequisite: THEA 101, 146 or consent of instructor.
Development of costume design through character and script analysis and understanding of line, space, color, and texture. Planning and presentation of costume rendering. May be repeated for a maximum of 6 units in different semesters. (2 hours lecture, 2 hours lab)

447/547. Costume Technical Skills (3)
Prerequisite: THEA 101, 146, or consent of instructor.
Analysis of structure of costumes and accessories. Advanced practical projects using materials, pattern making and construction methods in costume and accessories. Supervision in practical application of these elements in University-sponsored productions. Letter grade only (A-F). May be repeated for a maximum of 6 units in different semesters. (2 hours lecture, 2 hours lab)
448. Lighting Design (3)
Prerequisites: THEA 101, 148 or consent of instructor.
Techniques of designing lighting for various stage forms; creative planning and projection of designs for specific productions.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
(2 hours lecture, 2 hours lab)

449. Sound Design for the Theatre (3)
Introduction to scope, tools, materials and practices of sound in theatre today.
Letter grade only (A-F). (2 hours lecture, 2 hours lab)

451. Computer Applications for the Theatre (3)
Use of computer and general application software as used in theatrical design, management and technical production. Primary areas of focus include spreadsheets, database, presentation graphics and basic web page development.
Letter grade only (A-F).

456. Virtual and Automated Lighting Design (3)
Comprehensive study in techniques of virtual and automated lighting design. Course includes practical hands-on instruction in WYSIWYG virtual lighting software; Emphasis Control software and hardware; Var*Lite, Martin, and High End automated fixtures, and Catalyst Media Server.
Letter grade only (A-F). (2 hours lecture, 2 hours lab)

462. Advanced Movement for the Actor (3)
Prerequisites: THEA 202 or consent of instructor.
Kinesthetic approaches to theatrically utilizing heightened physical language to explore character, relationship and truth.
Letter grade only (A-F). (6 hours lab)

476. Theatre Management (3)
Examination of administration, management and promotion of a producing theatre organization. Practical application required in University-sponsored productions.
Letter grade only (A-F).

490. Special Topics in Theatre Arts (3)
Prerequisites: Consent of instructor.
Topics of current interest in Theatre Arts selected for intensive study.
Letter grade only (A-F). May be taken to a maximum of 9 units (Lecture 2 hours, activity 2 hours). Topics will be announced in the Schedule of Classes.

498. Special Studies in Theatre Arts (3)
Prerequisites: Consent of instructor.
Independent projects and research of advanced nature in areas of Theatre Arts under faculty supervision.
Letter grade only (A-F). Limited to 6 units in any one area. Topics will be announced in the Schedule of Classes.

A. Acting
B. Directing
C. Costume
D. Scenery
E. Properties
F. Playwriting
J. Theatre history
K. Theatre criticism
L. Movement
M. Makeup
N. Lighting
O. Voice
P. Stage management
Q. Theatre management
R. Dance
S. Technical direction.

GRADUATE LEVEL

502. Seminar in Theatre Management I (3)
Prerequisites: Acceptance into the MFA Program.
Study of contemporary principles of management processes specifically targeted to people pursuing professional Theatre Arts Management careers. Principles and practices of marketing, development, fund-raising, and publicity are analyzed and assessed through research and study.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
(2 hours lecture, 2 hours lab)

503. Leadership and the Arts (3)
Prerequisites: Acceptance into the MFA Program or senior status and completion of THEA 476 or consent of instructor.
Study of contemporary principles of leadership and leadership development processes with special concern for application to people working in the arts. Context for leadership in arts organization is assessed and matched against students' personal leadership styles.
Letter grade only (A-F). (2 hours lecture, 2 hours lab)

504. Managing the Not-For-Profit Arts Organization (3)
Prerequisites: Acceptance into the MFA Program or senior status and completion of THEA 476 or consent of instructor.
Study of principles of organizational management as applied to not-for-profit arts organizations. Issues include strategic planning and analysis, organizing, staffing, leading and controlling. Additionally studied are principles and practices of fund raising in not-for-profit environment.
Letter grade only (A-F).

507. Entertainment Law (3)
Prerequisite: Acceptance into the MFA Program.
Overview of legal aspects of entertainment business, especially in performing arts.
Letter grade only (A-F).

517. Repertory Theatre I (2)
Prerequisites: Acceptance into the MFA Program.
Design, preparation, rehearsals and performances of selected plays in California Repertory Company and University Players.
Letter grade only (A-F). May be repeated to a maximum of 4 units (6 hours lab)

518. Repertory Theatre II (2)
Prerequisites: Acceptance into the MFA Program.
Design, preparation, rehearsals and performances of selected plays in California Repertory Company and University Players.
Letter grade only (A-F). May be repeated to a maximum of 4 units (6 hours lab)

519. Repertory Theatre III (2)
Prerequisites: Acceptance into the MFA Program.
Design, preparation, rehearsals and performances of selected plays in California Repertory Company and University Players.
Letter grade only (A-F). May be repeated to a maximum of 4 units (6 hours lab)

520A. Voice I (2)
Prerequisite: Acceptance into the MFA Program.
Groundwork in Voice and Speech techniques for professional actors.
Letter grade only (A-F). (6 hours lab)

520B. Voice I (2)
Prerequisite: Acceptance into MFA Program.
Application of vocal technique to various styles of verse and prose for meaningful vocal expressiveness.
Letter grade only (A-F). (6 hours lab)

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521A. Voice II (2)
Prerequisites: Acceptance into MFA Program.
Exploration of extensive vocal variety and expressiveness, using four components of voice: quality, force, tempo, pitch. Expanding the boundaries.
Letter grade only (A-F). (6 hours lab)

521B. Voice II (2)
Prerequisites: Acceptance into MFA Program.
Analysis and development of dialects and accents for performance.
Letter grade only (A-F). (6 hours lab)

522A. Voice III (2)
Prerequisite: Acceptance into MFA Program.
Advanced study of dialects. Coursework covers research, analysis, and performance of selected dialects in context of a play.
Letter grade only (A-F). (6 hours lab)

522B. Voice III (2)
Prerequisite: Acceptance into MFA Program.
Exploration of microphone techniques. Coursework covers stand-up, radio drama, dubbing, animation, and practice in development of a demo tape for professional voice-over work.
Letter grade only (A-F). (6 hours lab)

523. Theory and Practice of Contemporary Theatre (3)
Critical exploration of major schools of thought between 1950-present including styles, genres and both national and international trends. Contributions of theatre practitioners and theorists and role of audience in this period.
Letter grade only (A-F).

524. Dramaturgy (3)
Prerequisite: Acceptance into MFA Program.
Dramaturgical approaches to theatrical analysis, dramatic structure and theatrical event.
Letter grade only (A-F).

530A. Acting in Repertory I (2)
Prerequisite: Acceptance into the MFA program.
Foundation and development of individual and ensemble acting techniques necessary for repertory actor and company. Applicable and related to performance schedule.
Letter grade only (A-F). (6 hours lab)

530B. Acting in Repertory I (2)
Prerequisite: Acceptance into the MFA program and THEA 530A.
Variable modules of technique training in ensemble and interaction skills for repertory actor. Dependent upon needs of individual actor, ensemble and/or performance schedule.
Letter grade only (A-F). (6 hours lab)

531A. Acting in Repertory II (2)
Prerequisite: Acceptance into the MFA program.
Development of a variety of acting techniques available to actor for playing situation, character, style and theatricality. Applicable and related to performance schedule.
Letter grade only (A-F). (6 hours lab)

531B. Acting in Repertory II (2)
Prerequisite: Acceptance into the MFA program and THEA 531A.
Variable technique modules in further development of repertory acting skills for playing situation, character, style and theatricality. Dependent upon needs of individual actor, ensemble and/or performance schedule.
Letter grade only (A-F). (6 hours lab)

532A. Acting in Repertory III (2)
Prerequisite: Acceptance into the MFA program.
Advanced and professional technique training of skill variety in the repertory actor. Applicable and related to performance schedule.
Letter grade only (A-F). (6 hours lab)

532B. Acting in Repertory III (2)
Prerequisite: Acceptance into the MFA program and THEA 532A.
Variable advanced technique modules for expansion and enrichment of professional acting skills for the individual and ensemble. Dependent upon needs of individual actor, ensemble and/or performance schedule.
Letter grade only (A-F). (6 hours lab)

540. Non-traditional Material Use in the Theatre (2)
Prerequisite: Consent of instructor.
Creative use of non-traditional materials in the design and fabrication of props, costumes and set dressing. Exploration into decorative techniques and processes in fabrication and finishing.
Letter grade only (A-F). (4 hours lab)

541. Portfolio Development (3)
Study of content and presentation forms of designer's portfolio, resume and cover letter. Acquaints the designer/technician with interview skills and practical business information.
Letter grade only (A-F). (4 hours lab)

543. Character Costume Rendering (2)
Exploration of professional skills necessary for Costume Designers visual communication of fully rendered costumed characters. Exploration includes communication of proportion, movement, personality, fabrication, accessories, details, and adaptation of style or period, as applied through different types of illustration media.
Letter grade only (A-F). (4 hours lab)

544. Visual Concepts in Theatre Design (3)
Foundations in visual conceptualization emphasizing development of visual discipline, creative skills and the poetic nature of theatre design.
Letter grade only (A-F). (4 hours lab)

545. Computer Aided Design for the Theatre (2)
Applications of two/three dimensional computer aided design/ drafting programs to problems in technical theatre and design. Course concentrates on application of 2D-CADD programs as common theatrical drafting problems. Course explores use of 3D-CADD programs as design tools in theatrical spaces.
Letter grade only (A-F). (4 hours lab)

546A. Advanced Costume Design I (2)
Development of costume design through character and script analysis, and understanding of line, space, color and texture.
Letter grade only (A-F). (4 hours lab)

546B. Advanced Costume Design I (2)
Prerequisite: THEA 546A or consent of instructor.
Exploration of elements of design as demanded by a variety of scripts and styles.
Letter grade only (A-F). (4 hours lab)

547. J447. Costume Technical Skills (3)
Prerequisite: THEA 101, 146, or consent of Instructor.
Analysis of structure of costumes and accessories. Advanced technical projects using materials, patterning and construction methods in costume and accessories. Supervision in practical application of these elements in University sponsored productions.
Letter grade only (A-F). May be repeated for a maximum of 8 units in different semesters. (2 hrs. lecture, 2 hrs. lab).

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545A. Advanced Lighting Design I (2)
Prerequisite: Consent of instructor.
Techniques of designing lighting for various stage forms.
Letter grade only (A-F). (4 hours lab)

545B. Advanced Lighting Design I (2)
Prerequisite: THEA 545A or consent of instructor.
Creative planning and development of lighting designs for specific productions.
Letter grade only (A-F). (4 hours lab)

550. Computer Graphics for Theatre (3)
Prerequisite: THEA 451 or equivalent.
Course is a comprehensive study of tools and techniques incorporated in Adobe Photoshop and their application to theatre. Techniques in scanning, digital image manipulation and exporting to hard and soft copy are covered.
Letter grade only (A-F). (1 hour lecture, 2 hours lab)

552. Collaborative Studies (3)
Explores aesthetic visions, directorial approaches, dramaturgical practices, and performance styles that characterize contour and magic of Theatre. Use of collaborative study and presentation affords a greater exposure of creativity with the integration of methodologies as seen in Professional arenas.
Letter grade only (A-F). (2 hours lecture, 4 hours lab)

554. Textile Applications in Theatre Design (2)
Exploration and creative application of techniques of manipulating, painting, and dying textiles for theatrical design.
Letter grade only (A-F). (4 hours lab)

555. Virtual and Automated Lighting Design (2)
Comprehensive study in techniques of virtual and automated lighting design. Course includes practical instruction in WYSIWYG virtual lighting software, MindStar software and hardware, VizLab, Martin, and High End automated fixtures, and the Catalyst Media Server.
Letter grade only (A-F). (Activity 4 hours)

555A. Advanced Costume Design II (2)
Development of skills in visual communication and style, including advanced rendering techniques and presentation.
Letter grade only (A-F). (4 hours lab)

555B. Advanced Costume Design II (2)
Prerequisite: THEA 555A or consent of instructor.
Development of skills in research, interpretation, conceptualization and integrating multiple sources in design.
Letter grade only (A-F). (4 hours lab)

564A. Movement I (2)
Prerequisite:Acceptance into the MFA Program.
Practical study in movement fundamentals, body mechanics, and non-verbal communication. Exploration of movement as actor’s tool to aid in acting process.
Letter grade only (A-F). (6 hours lab)

564B. Movement I (2)
Prerequisite:Acceptance into the MFA Program.
Analytical and practical exploration of movement principles of weight, space, time, and energy and their application to acting process.
Letter grade only (A-F). (6 hours lab)

565A. Movement II (2)
Prerequisite:Acceptance into the MFA Program.
Practical study of unlearned combat for stage. Coursework covers technique, safety, choreography, and application to acting process, including performance of scenes that include combat.
Letter grade only (A-F). (6 hours lab)

565B. Movement II (2)
Prerequisite:Acceptance into the MFA Program.
Practical study of armed combat for stage, including quarterstaffs, broadswords, sabres, rapiers and daggers.
Coursework covers technique, safety, choreography, and application to acting process.
Letter grade only (A-F). (6 hours lab)

566A. Movement III (2)
Prerequisite: Acceptance into the MFA Program.
Practical study of armed combat for stage, including quarterstaffs and broadswords.
Coursework covers technique, safety, choreography, and application to acting process.
Letter grade only (A-F). (6 hours lab)

566B. Movement III (2)
Prerequisite: Acceptance into the MFA Program.
Historical study of movement styles from selected theatre periods through eighteenth century. Coursework covers social dancing, movement, manners, and handling of period costumes, props, and accessories.
Letter grade only (A-F). (6 hours lab)

580A. Scene Design I (2)
Development of scene design through script analysis and understanding of space, form, line, color, texture and mood.
Planning and development of scenic rendering and model.
Letter grade only (A-F). (4 hours lab)

580B. Scene Design I (2)
Prerequisite: THEA 580A or consent of instructor.
Exploration of elements of scenic design as demanded by a variety of scripts and styles with specific challenges and complex production format.
Letter grade only (A-F). (4 hours lab)

581. Scenographic Techniques (2)
Study of drafting techniques used to translate designer’s vision to finished set on stage. Includes both traditional and computer aided design and drafting tools.
Letter grade only (A-F). (4 hours lab)

583. Theatrical Patternmaking Methods (2)
Exploration of fitting, advanced pattern making and construction techniques. Projects in fitting problems, flat pattern making, draping, understructures, and tailoring for theatre.
Letter grade only (A-F). (4 hours lab)

584. Rendering and Painting for Theatre (2)
Introduction to rendering basics and painting stresses working on set of theatre design. Developing ability to depict form and space. Emphasizes development of visual discipline, drawing and rendering techniques used in the visual presentation of stage design and scenic painting.
Letter grade only (A-F). (4 hours lab)

585A. Scene Design II (2)
Projects in scene design for the multi-set play. Consideration of stylistic unity, current trends and approaches as well as shifting problems. Development of advanced rendering techniques.
Letter grade only (A-F). (4 hours lab)

585B. Scene Design II (2)
Prerequisite: THEA 585A or consent of instructor.
Further development of skills in scene design for multi-set play. Development of advanced model making techniques.
Letter grade only (A-F). (4 hours lab)
590. Graduation Design (3)
Prerequisite: Consent of Instructor.
Advanced design projects and concepts with faculty supervision.
Topics to be listed in the Schedule of Classes. Letter grade only (A-F).
May be repeated for a maximum of 6 units in different semesters.
C. Costume
D. Scenery
M. Make-up
N. Lighting

602. Seminar in Theatre Management II (3)
Prerequisites: Acceptance into the MFA Program.
Study of application of contemporary principles of management processes specifically targeted to people pursuing professional Theatre Arts Management careers. Applications of principles and practices of marketing, development, fund-raising, and publicity are analyzed and assessed through research and study.
Letter grade only (A-F). May be repeated to a maximum of 9 units.

603. Producing Commercial Theatre (3)
Prerequisite: Acceptance into the MFA Program.
Examination of all facets of professional theatre production including off-Broadway, Broadway, regional and stock operations.
Letter grade only (A-F).

614. Advanced Period Scene Study (3)
Prerequisite: Acceptance by audition into MFA program.
Acting in Shakespeare and advanced scene study from selected theatrical periods and plays. Analysis and exercises include language, background, and human behavior.
Letter grade only (A-F).

548A. Advanced Lighting Design II (2)
Direct application of cueing and structuring of the total lighting design within the time constraints of rehearsal and production.
Letter grade only (A-F). (4 hours lab)

548B. Advanced Lighting Design II (2)
Prerequisites: THEA 648A or consent of instructor.
Development of skills in lighting design process for a variety of scripts and styles with specific challenges and complex production formats.
Letter grade only (A-F). (4 hours lab)

649A. Advanced Lighting Design III (2)
Development of skills in lighting for musical, opera, video, and dance.
Letter grade only (A-F). (4 hours lab)

649B. Advanced Lighting Design III (2)
Prerequisites: THEA 649A or consent of instructor.
Development of skills in lighting for other production venues.
Letter grade only (A-F). (4 hours lab)

656A. Advanced Costume Design III (2)
Development of skills in costume design for musical, opera, and dance.
Letter grade only (A-F). (4 hours lab)

656B. Advanced Costume Design III (2)
Prerequisites: THEA 656A or consent of instructor.
Development of skills in costume design for other production venues.
Letter grade only (A-F). (4 hours lab)

685A. Scene Design II (2)
Development of skills in scene design for musical, opera, and dance.
Letter grade only (A-F). (4 hours lab)

685B. Scene Design III (2)
Prerequisites: THEA 685A or consent of instructor.
Further development of skills in scene design for other production venues.
Letter grade only (A-F). (4 hours lab)

696. Theatrical Tailoring (2)
Investigation of tailored garments and understructures in selected historical periods. Projects in traditional and contemporary hand machine tailoring techniques, and in specialized construction for undergarments. Supervision in practical application of these elements in university sponsored productions.
Letter grade only (A-F). (4 hours lab)

690. Special Topics in Theatre Arts (1-3)
Prerequisite: Consent of instructor.
Topics of current interest in Theatre Arts selected for intensive study.
May be taken for a maximum of nine units. Topics will be announced in the Schedule of Classes.
Letter grade only (A-F). (3 hours lab per unit)

694. Advanced Studies in Theatre Arts (3)
Prerequisite: Consent of instructor.
Advanced individual projects with faculty supervision in an area of Theatre Arts specialization. Limited to three units in any one area per semester and no more than six units in one semester with a total of nine units in any one area. Areas will be designated by letter at time of registration.
Letter grade only (A-F). May be repeated to a maximum of 6 units.

A. Acting
B. Directing
C. Costumes
D. Scenery
E. Properties
F. Playwriting
J. Theatre History
K. Theatre Criticism
L. Movement
M. Makeup
N. Lighting
O. Voice
P. Stage Management
Q. Theatre Management
R. Technical Direction

696. Aesthetic Theory and Conceptualization (3)
Study of theoretical aesthetics as it applies to creative act. Practical application of research and variable aesthetic elements in production style and conceptualization.
Letter grade only (A-F).

699. MFA Thesis/Project (1-6)
Prerequisite: Advancement to candidacy and consent of department chair.
Planning, preparation and completion of thesis related to field of specialization.
Letter grade only (A-F). May be repeated to a maximum of 6 units.
Why UCES Is Different - Access and Opportunity

University College and Extension Services is different from CSULB’s other academic colleges because it is not focused on one specific subject area, such as arts or science. UCES provides a variety of ways to bring people to the university, and to bring the university and its programs to the people, through the innovative delivery of many different types of courses and programs across diverse subject areas.

UCES’ unique position as both an academic college and a community outreach entity means that partnerships and collaboration - with the university, businesses, organizations, and community leadership - are an integral part of its operation. Fostering collaborative academic initiatives, both credit and professional development (non-credit) has always been one of the highest priorities of the UCES administrative leadership.

UCES programs do not receive state funding and are supported entirely by student fees.

The UCES Mission Statement

University College and Extension Services (UCES) programs are major vehicles by which the university fulfills its responsibility to meet the lifelong personal and professional development learning needs of citizens, industries, and institutions within its service area and beyond. Through its certificate programs, credit and non-credit classes, seminars and special programs, distance delivered instruction, and customized on-site training, UCES brings the resources of CSULB to individuals and groups at times, locations, and in formats convenient to their diverse lifestyles.

In all of its programs, UCES strives for an image of being ‘The Best Choice and The Best Value’ - top quality instructors and content, innovative and thoughtfully designed formats, and careful attention to the needs of all participants from corporate executives and entry-level supervisors to aspiring artists, senior citizens, and all others who choose to enrich their lives through continuing education.

Through its work, UCES advances the mission of Extended Education in the CSU outlined by the Commission on the Extended University:

- Meeting California’s economic and workforce development needs
- Increasing access to educational opportunities by serving broader constituencies
- Developing alternative instructional delivery systems
- Creatively developing new programs
- Providing personal and lifelong learning opportunities
- Generating new resources for the CSU system
- Supporting international educational experiences
Programs
UCES maintains a customer-focused market-driven approach to developing and delivering programs. As a result, the programs may change often to adapt to the training and educational needs of the market. UCES offers both professional development (non-credit) and credit programs, in many different subject areas. Whether the program is credit-bearing or not for university credit, UCES strives to provide the following features in every course:
- Quality curriculum
- Innovative and thoughtfully designed formats
- Convenient days/times
- Affordable fees and payment plan options
- Fast, easy registration

In addition, UCES provides companies, organizations, and government agencies with customized professional development programs for employees at their work site or at CSULB.

For a free catalog of the latest comprehensive program listings and descriptions, call the UCES Customer Service Center 800/963-2250 or visit the website http://www.uces.csulb.edu.

Following is just a sampling of the many types of programs offered by UCES.

Professional Development Certificate Programs Offered
- Lean Management
- Human Resources Management
- Professional Meeting and Event Planning
- Basic Applied Forensic Science and Crime Analysis
- Engineering and Architectural AutoCAD
- Geographic Information Systems
- IT Project Management
- Oracle Internet Applications Developer Specialist

Professional Designation Programs and Industry-Specific Exam Prep Programs
- Global Logistics Specialist
- The SHRM Learning System (PHR/SPHR exam prep)

On-line Programs
- Accounting Fundamentals
- Finance
- Project Management Fundamentals
- Managing Technical Professionals
- Fundamentals of Supervision Management
- Business Administration
- Database Management
- Grant Writing and Non-Profit Management
- Career and Personal Enrichment
- Languages

Degrees Offered
Degree programs offered by UCES are in partnership with other CSULB colleges.
- Bachelor of Science in Business Administration, Option: International Business (Singapore)
- Bachelor of Arts in Communication Disorders
- Bachelor of Arts in Global Logistics
- Bachelor of Arts in Kinesiology, Option: Sport Management
- Master of Arts in Kinesiology, Option: Pedagogy
- Master of Business Administration (Fully Employed MBA for Working Adults)
- Master of Business Administration (Accelerated)
- Master of Public Administration
- Master of Science in Criminal Justice
- Master of Science in Health Care Administration (Accelerated)
- Master of Science in Mathematics: Option in Applied Statistics (Accelerated)
- Master of Social Work

Credit Certificates Offered
- Advanced Manufacturing Technology
- Applied Statistics

The American Language Institute
The American Language Institute provides English as a Second Language instruction to international students. ALI offerings include long-term and short-term programs, and credit and non-credit courses. Programs offered through the ALI include the Intensive English Program, a non-credit program offered year-round, 3 sessions per year, in which students are in class up to 25 hours per week.

Open University
Open University provides an opportunity for those people who are not currently admitted to and/or registered at CSULB to enroll in most courses offered by the university. Enrollment is on a space-available basis, and subject to approval of the instructor and department chair. Students receive Open University Special Sessions credit. For more information, call the UCES Customer Service Center at 800/963-2250.

Centers/Consortiums
Center for International Trade and Transportation (CITT)
Southern California Process Improvement Network (SPIN)

College Facilities
- Full service video and multimedia production facility located on campus, including a 2200 square-foot studio, featuring the latest computer animation software
- Computer labs both on and off campus
- Executive conference and training rooms

Continuing Education Units
Continuing Education Units (CEUs) are a permanent record of attendance in professional development (non-credit) programs. They are provided by The American Council on Education (ACE) and administered through UCES. CEUs can enhance one's resume and provide another opportunity to showcase a commitment to professional development. CEUs for specific professions are also available.
ED P 492. Internships in the Human Services (3)
Prerequisite: Consent of instructor.
Students are placed in agencies and organizations to engage in volunteer or paid work in human service/mentals health.
The required fifteen hour seminar will focus on personal values, interpersonal communications skills, critical thinking, and problem solving. Development of knowledge and skills transferable to future careers will be stressed.
A minimum of 120 hours field experience is required for the semester.

FEA 492. Internship (3)
Prerequisites: Senior standing in major or consent of instructor.
Students intern with cooperating media facilities.
Credit/No Credit grading only. May be repeated to a maximum of 6 units. (6 hours lab)

Supplemental Instruction (S/I)

60. Supplemental Instruction (1)
An adjunct support class tied to select general education courses. Students enroll in the target GE course and the S/I class together.

University (UNIV)

100. The University and Your Future (1)
All undergraduate students who enter this university with fewer than 56 transferable semester units shall complete a one-unit (15 hour) course which includes instruction in History and Mission of University.
Introduction to university traditions; current issues in higher education; academic freedom, tenure, and students’ rights and responsibilities; and services available at university throughout student’s academic career. Includes component on use of the University Library and campus information technologies.
Students who do not complete requirement within first two semesters of enrollment on campus may be disenrolled from the university before third regular semester.
Offered both in week before classes begin and during first week of classes. Consult Schedule of Classes for course offerings. Credit/No Credit grading only.

200. U.S. Military Basic Training (3)
Prerequisite: GE Foundation.
For active U.S. military service members and veterans only.
Credit is granted with verification of successful completion of Basic Training for U.S. Army, Navy, Air Force, Marines, or Coast Guard.

400. The University in Your Future Student Leadership (1)
Prerequisite: Selected by University 100 Director.
Students assist UNIV 100 faculty in presentation of course.
May be repeated to a maximum of 3 units. Credit/No Credit grading only.
Writing Proficiency

**WPE 10. Preparation for the WPE (1)**
Non-credit course designed to prepare students for the Writing Proficiency Examination (WPE) for which a passing score is 11. Recommended for students who have not yet attempted the WPE or who have previously failed the test with a score of 8 or below.
Credit/No Credit grading only. May be repeated until the WPE is successfully passed. (Activity)

**WPE 20. Preparation for the WPE (1)**
Non-credit course designed to prepare students for the Writing Proficiency Examination (WPE) for which a passing score is 11. Recommended for students who have previously failed the WPE with a score of 9 or 10.
Credit/No Credit grading only. May be repeated until the WPE is successfully passed. (Activity)

**ENGL 301A. English Proficiency (3)**
Prerequisites: ENGL 100 or equivalent.
Intermediate course in English usage with emphasis on building proficiency in oral and written language.
Enrollment limited to students needing language development beyond skills acquired in ENGL 100, as assessed by scores on the Writing Proficiency Exam. May be repeated to a maximum of 6 units. Not applicable to credit in any degree program of the Department of English. Letter grade only (A-F).

**ENGL 301B. English Proficiency (3)**
Prerequisites: ENGL 100 or equivalent.
Intermediate course in English usage with emphasis on building proficiency in oral and written language.
Enrollment limited to students needing language development beyond skills acquired in ENGL 100, as assessed by scores on the Writing Proficiency Exam. May be repeated to a maximum of 6 units. Not applicable to credit in any degree program of the Department of English.
Admission Requirements

There are three ways a student may enter the University Honors Program:

- Incoming students are invited to apply to General Honors on the basis of high school class standings, ACT composite score, and/or SAT scores. Normally, students should be in the upper ten percent of their high school classes, and have a composite ACT score of at least 24, and/or strong SAT scores, and a GPA of 3.5 or better. However, if not all of these criteria are met, a combination of them may be evaluated in addition to a letter of recommendation and a personal interview with the Honors Program Director.

- Any student who maintains a 3.5 or better overall GPA at California State University, Long Beach in 12 or more units of coursework is eligible to participate in General Honors with a letter of recommendation from an instructor and a personal interview with the Honors Program Director. Students with a GPA of 3.5 or above in 12 or more units at California State University, Long Beach normally will be granted automatic acceptance into the Program upon application.

- CSULB students not meeting the designated criteria may petition for admission to General Honors. Students are required to submit letters of recommendation from two instructors familiar with their work. These exceptional cases will be reviewed by the Director and the University Honors Program Advisory Board. Students are encouraged to petition if they have a good explanation for not meeting the basic requirements and/or a strong motivation to participate in the Program.

Transfer students may enter General Honors provided they have a minimum equivalent of a 3.5 average in all course work at the accredited institution from which they are transferring.

Qualified students may enter General Honors as late as the junior year. Where Honors transfer agreements have been negotiated with a community college (such as with Long Beach City College) up to 12 transfer units will be accepted as meeting the requirements of the CSULB University Honors Program. Otherwise, a waiver of some of the required Honors credits (not more than 6) may be granted by the Director and the University Honors Program Advisory Board.

Academic Requirements

General Honors students must complete all university-wide graduation requirements and the requirements for their major. General Honors is itself not a major. A student must maintain an overall GPA of 3.00 or better in Honors and in all University courses attempted.

General Honors Plan I (minimum of 24 units) is designed for entering freshmen and consists of a minimum of 18 units of lower- and upper-division General Education courses (which include UHP 100 and UHP 150) and a culminating 6-unit senior thesis/project in the student’s major (UHP 496, Research Participation, and UHP 498, Senior Thesis/Project).

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General Honors Plan II (minimum of 15 units) is primarily for upper-division transfers from community colleges and current CSULB students who have achieved a GPA of 3.5. It consists of nine units of upper-division General Education courses and a culminating 6-unit senior thesis/project in the student’s major (UHP 496, Research Participation, and UHP 498, Senior Thesis/Project).

Honors in the Major (available in select majors only)

Many CSULB majors provide students with an option to pursue Honors in the Major. Students in General Honors whose major department offers an Honors in the Major Program may apply to participate in both programs, in which case the General Honors thesis requirement would be satisfied through the Honors in the Major option. Honors in the Major (minimum of 9 units) consists of a minimum of one upper-division Honors-specific course in student’s major department and a culminating 6-unit senior thesis/project (courses in the major department equivalent to UHP 496 and UHP 498).

Although Honors in the Major requirements may vary among departments, usually they entail independent study, seminar courses, high levels of performance, and senior projects or those culminating in a broad knowledge of subject matter. Information concerning Honors in the Major is available in the University Honors Program Office and in participating departmental offices.

Admission Requirements

Please contact the department office or the University Honors Program Office for information regarding admission. Normally a student must be a declared major, usually with at least sophomore (30 units) standing.

Academic Requirements

1. Completion of the requirements for the major. (The approval of the department chair and the Departmental Faculty Honors Advisor must be obtained to change any of the general major requirements.)

2. Completion of a minimum of one upper-division Honors-specific course in the student’s major department and a culminating 6-unit senior thesis/project (courses in the major department equivalent to UHP 496 and UHP 498).

General Information

Students who have failed to enroll in courses for Honors credit for two consecutive semesters will normally be withdrawn from the program. Students must remain full-time or will be withdrawn from the program.

A University Honors student who withdraws from the University during any semester will also be withdrawn from the program. A student may apply for readmission at the beginning of any semester in which he/she plans to enroll in an honors class.

Courses (UHP)

Special honors sections of regular GE courses in various departments as listed under “University Honors Program” to be found in the current Schedule of Classes.

LOWER DIVISION

100. Angles of Vision — Honors (3)
Analytical and critical approaches leading to original and creative thinking. Development of seminar skills: preparation of analytical essays and oral presentations, examination of models and techniques of reasoning, conceptualization of research problems, writing documented paper.
Required of all UHP students. GE Category A.3.

150. Exploring a Text — Honors (3)
Prerequisites: ENGL 100.
Close reading of a work (or works) of literature — fiction or non-fiction — exploring issues of personal identity, moral choice, freedom and commitment.
May be repeated to a maximum of 6 units with different topics. GE Category E. Letter grade only (A-F).

UPPER DIVISION

300. Junior Colloquium — Honors (3)
Studies of selected interdisciplinary topics, problems or issues with a view toward integration of the areas of study involved in lower-division courses.
May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

490. Special Topics — Honors (3)
Identification and critical analyses of current problems in selected areas. Topics to be announced in the Schedule of Classes.
May be repeated to a maximum of 6 units with different topics. Letter grade only (A-F).

496. Research Participation — Honors (3)
Prerequisites: Consent of Program Director and supervising faculty member.
Letter grade only (A-F).

497. Directed Studies — Honors (1-3)
Prerequisites: Consent of Program Director and supervising faculty member.
Independent study under supervision of a faculty member.
May be repeated to a maximum of 6 units. Letter grade only (A-F).

498. Senior Thesis/Project — Honors (3)
Prerequisites: Consent of Program Director and supervising faculty member.
Final completion of a thesis, or a project; or an exhibit or a performance.
Letter grade only (A-F).
WOMEN'S, GENDER, AND SEXUALITY STUDIES
College of Liberal Arts

Department Chair: Wendy Griffin
Office: MHS-819
Telephone: (562) 985-4839
FAX: (562) 985-1968

Faculty: Elsie Blankley (Women's, Gender, and Sexuality Studies and English), Angela Bowen (Women's, Gender, and Sexuality Studies), Norma Chinchilla (Women's, Gender, and Sexuality Studies and Sociology), Wendy Gettin (Women's, Gender, and Sexuality Studies), Elizabeth Philippine (Women's, Gender, and Sexuality Studies), Jennifer Reed (Women's, Gender, and Sexuality Studies), Mayhree Rogers (Women's, Gender, and Sexuality Studies), Patricia Rozee (Psychology and Women's, Gender, and Sexuality Studies), Shira Tarrant (Women's, Gender, and Sexuality Studies)

Affiliated Faculty: Hamid Berdahian (History), Mary Coppi (Political Science), Patricia Cleary (History), Jane Dalit (History), Linda Espinza-Maram (Asian and Asian American Studies), Jayne Howell (Anthropology), Susan Lubovac (Library), Claire Martin (Romans), Karen, Karen (Linguistics), Rika Rice (Linguistics), Anne Sandolov (Chicano and Latino Studies), Kristine Zentgraf (Sociology)

Introduction
It is the goal of the Department of Women's, Gender, and Sexuality Studies to provide for students, the University, and the community an intellectual context from which it is possible to study the experience of women. By definition, this enterprise crosses disciplinary and cultural lines; it means that we are in the University not only to fill in gaps and to facilitate the development of coherent bodies of knowledge about women in established disciplines, but that we represent a core of emerging knowledge that has grown into a new discipline.

Women's, Gender, and Sexuality Studies seeks to equip students with the knowledge, skills, and perception necessary to their realization of the fullest range of options available to them as human beings. We want to provide and encourage contexts conducive to academic excellence and sensitive to academic freedom that will assist students in 1) the reexamining of traditional ideas about women and men in cultures characterized by patterns of sex-role stereotyping; 2) acquiring an understanding of the history and contributions of women of varying social, racial, and ethnic backgrounds; 3) developing the analytical tools required to understand and appreciate the implications of the last four decades of feminist theory and research; and 4) preparing for a variety of vocations which increasingly demand knowledge about women's experience.

Women's, Gender, and Sexuality Studies, in its own department and through courses in other departments and disciplines, offers the University the intellectual excitement inherent in the development of a new discipline, and a humanistic perspective from which to view the accumulated knowledge of other disciplines, particularly their assumptions about women, both as actors and subjects. Women's, Gender, and Sexuality Studies encourages the development of research and curriculum related to women in other disciplines and departments throughout the University. We also provide information and advising for students and other members of the University community on the subject of women and women's issues.

The Department of Women's, Gender, and Sexuality Studies offers a major and minor. Students may also graduate with a B.A. in Inter-disciplinary Studies that have Women's Studies as one of its disciplines. CSULB also offers a Special Major at the graduate level through which students may design a major combining Women's Studies with another discipline. Designated Women's, Gender, and Sexuality Studies courses may be used to fulfill the Social Science (Category II) and other General Education requirements, as well as I.C. and H.D. requirements. For additional information and advice relative to these programs, or ways in which to combine Women's Studies with another Major or Concentration, please consult the Department Office or the Undergraduate Advisor.

Bachelor of Arts in Women's Studies (code WSTBA81) (120 units)

Requirements
A total of 45 units will be required for the Women's Studies major. Courses cannot be counted for more than one category within the major. Requirements include 3 lower division units and 42 upper division units distributed among the following categories:

Core Requirements – 30 units
Introduction to Women's, Gender, and Sexuality Studies – total 3 units: WGSS 102
Theory and Methodology – total 15 units.
Nine units to include WGSS 300, 301, and 415;
One of the following for 3 units: WGSS 340 or 392;
One of the following for 3 units: WGSS 360 or 382;
U.S. and Global Ethnic/Gender Diversity – total 6 units: WGSS 311 and 401;
Women's History – total 3 units: WGSS 485A (HIST) or 485B (HIST);
Senior Capstone Seminar – total 3 units: WGSS 495

Electives – 15 units
To include 9 units from one of the following clusters and a total of 6 units from one or both of the other clusters.

Clusters

Feminist Aesthetics and Cultural Studies
This cluster focuses on the study of art and culture both as sites of women's theoretical and political work and as sources of the construction and representation of women's identities. The courses in this cluster examine forms of women's own self-expression (such as literature, philosophy, theory, and cinema) as well as women's place in

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culture (such as language, art, popular culture, religion, or urban space) through which societal ideas about women have historically been created and maintained.

WGSS 312 (HIST 319), 314, 316 (FEA 317), 320 (CHLS 415), 355, 381 (ASAM), 382 (ENGL), HIST 338, 402 (POSC 401), WGSS 406A (ASAM, HIST), WGSS 406B (ASAM, HIST), 410, 420, 425, 432, 441 (ENGL), 442 (ENGL), 447, 455 (PHIL), 475 (ANTH, LING 470), WGSS 490 (depending on topic and with prior approval of the Women's, Gender, and Sexuality Studies advisor).

Social Change and Social Policy
The courses in this cluster address the role of women within the legal, economic and political structures of our society. Whether they are social policy makers or the ones affected by the distribution of power, women have always played a central role in all of the institutions and practices that make up our society. This cluster examines women's historical and contemporary place within religion; law; science; labor; economics; environmentalism; health care; cities; families; structures of race, class, and sexuality; and political activism.

WGSS 301, 308, 309 (NURE), 314, 315, 316 (ASAM, AFRS, CHLS), 325 (SOC), 340, 350, 356, 381 (ASAM, HIST), HIST 338, 392, 402 (POSC 401), 406A (ASAM, HIST), 406B (ASAM, HIST), 410, 420, 424, 425, 430, 432, 440, 455A (HIST, 455B (HIST), WGSS 490 (depending on topic and with prior approval of the Women's, Gender, and Sexuality Studies advisor), SOC 346, PSY 354.

U.S. and Global Ethnic/Gender Diversity
This cluster focuses on the experiences of women internationally and among diverse communities and cultures in the United States. Recognizing that women's experiences are defined as much by their positioning within their respective cultures, and societal systems as by their individual racial, ethnic, religious, class, or sexual identity, this cluster offers a comparative look at both the individual and the global aspects of women's lives. The courses in this cluster study the diversity of histories, experiences, and cultures within the United States as well as their historical and political connections to women around the globe.

WGSS 301, 315, 320 (CHLS 415), 356, 381 (ASAM, HIST), HIST 338, 392, 402 (ASAM, HIST), 406A (ASAM, HIST), 406B (CHLS 450A), 447, 449, 490 (depending on topic and with prior approval of the Women's, Gender, and Sexuality Studies advisor), IST 451.

Note: Courses cross listed with any of the above courses are accepted as substitutes. Students must earn a grade of at least "C" in all upper division major courses.

Minor in Women's Studies (code W/STUM01)
Requirements
A minimum of 21 units are required for the Women's Studies minor, to be selected with approval of a Women's, Gender, and Sexuality Studies advisor. Courses cannot be counted for more than one category within the minor and must be selected from among the following categories:

Lower Division - 3 units: WGSS 101 or 102
Upper Division - 18 units:
Take each of the following for three units each: WGSS 300, 318, 401
Take one of the following for three units: WGSS 340 or 392
Take one of the following for three units: WGSS 485A or 485B
Take three additional units from any cluster.

Courses (WGSS)

LOWER DIVISION

101. Women and Their Bodies (3)
Prerequisite or Corequisite: One GE Foundation course.
Introduction to the rapidly expanding body of literature and ideas related to the biology and sexuality of women.
Not open for credit to students with credit in WIST 101.

102. Women in Contemporary Society (3)
Prerequisite or Corequisite: One GE Foundation course.
Introduction to some of the basic questions raised by the contemporary feminist movement relating to the social, political, and economic status of women.
Not open for credit to students with credit in WIST 102.

216. Hollywood and Beyond: Gender, Race, and Sex in the Movies (3)
Prerequisite: Foundation curriculum completed
Explores ideologies of gender, race, sexuality, and class in mainstream and independent films. Focus is on learning to critically evaluate representations of identity and their social and political significance, including hegemonic and alternative representations.
Not open for credit to students with credit in WIST 216.

UPPER DIVISION

General Education Category A must be completed prior to taking any upper division course except upper division language courses where students meet formal prerequisites and/or competency equivalent for advanced study.

300. Principles of Feminism (3)
Prerequisites: ENGL 100 and upper division status or consent of instructor.
Introduction to principles of feminist history, thought, theory, methodology, and current issues that emphasize but is not limited to the United States.
Letter grade only (A-F). Not open for credit to students with credit in WST 300.

301. Feminist Research Methods (3)
Prerequisite: Upper division status.
Examines how feminist scholars frame and conduct research. Students explore feminist adaptations and critiques of traditional academic disciplines and design and conduct a research project using a range of bibliographic and research tools.
Letter grade only (A-F). Not open for credit to students with credit in WST 301.

307. U.S. Women and the Economy: Money, Sex, and Power (3)
Prerequisites: Completion of GE Foundation requirements, one or more Explorations courses, and upper-division standing.
Interdisciplinary examination of the economic roles of women; analysis of the sexual division of labor and domestic work. Special
focus on the origin, migration, settlement, and economic patterns of and problems facing US women from major ethnic and racial
groups.
Not open for credit to students with credit in WIST 307.

308. Women and the Law (3)
History of women's experience under the law; constitutional law; 19th amendment and ERA; equal protection issues; discrimination in employment; marriage and family law.
Not open for credit to students with credit in WIST 308.

309L. Women in Science (3)
Prerequisites: Completion of the G.E. Foundation, upper division standing, six units of General Education science courses and consent of instructor.
Examines women and their roles in science in terms of their socio-historical context, their specific contributions, and the nature of the scientific problems they pursued, including methodology and outcomes. Explores the cultural and institutional obstacles to the success of women in science.
Letter grade only (A-F). Same course as NSCI 309L. Not open for credit to students with credit in NSCI 309L or WIST 309L. (Lec 3 hrs.)

312. Women in the Ancient and Medieval West (3)
Prerequisite: ENGL 100.
Examines roles and experiences of women in Western Europe from prehistory to sixteenth century. Themes may include: construction of gender roles, relation between symbols and reality, interaction of private/public life, access to power/opportunity, possibilities of a "women's culture."
Same course as HIST 319. Not open for credit to students with credit in HIST 319 or WIST 312.

314. Women Narrate Their Lives (3)
Study of lives of a cross-section of Women in U.S. from colonial era to present based on biographical and autobiographical sources.
Not open for credit to students with credit in WIST 314

315. Black Women in America (3)
Prerequisites: ENGL 100 and upper division status or consent of instructor.
Examination of American black women from eighteenth century to present. Taught from interdisciplinary perspective and presented in their own voices.
Letter grade only (A-F). Not open for credit to students with credit in WIST 315

316. Women in the History of U.S. Film (3)
History of women as they are represented, presented as images, or constructed in the development of U.S. film. Theory and analysis of film from a feminist perspective.
Same course as FCA 317. Not open for credit to students with credit in FCA 317 or WIST 316.

318L. U.S. Women of Color (3)
Prerequisites: ENGL 100 and upper division standing or consent of instructor.
Examines condition, position, experiences and accomplishments of U.S. women of color. Covers historical and contemporary issues using theoretical essays, personal narratives, historical documents, literature, and media images.
Not open for credit to students with credit in WIST 318L.

319. The Ethnic Experience in the U.S. (3)
Examination of dynamics of development of our multicultural society, emphasizing study of four distinct ethnic strands of American society (Asian American, Black American, Mexican American, and American Indian) and their role in maintenance of cultural diversity in United States.
Same course as AIS 319, ASAM 319, AFRS 319, CHLS 319. Not open for credit to students with credit in AFRS 319, AIS 319, ASAM 319, BIST 319, CHLS 319 or WIST 319.

320. Latina Women in the United States (3)
Prerequisite: Junior standing or consent of instructor.
Examines cultural, political, economic, and sexual forces that mold Latina women. Focus on cultural stereotypes, class, gender identity, sexuality, and politics of race.
Same course as CHLS 415. Not open for credit to students with credit in CHLS 415 or WIST 320.

325. Sociology of Women (3)
A sociological analysis of social, political, and economic status of women. Examines history of women's roles and status; gender conflicts and social movements; and societal attitudes toward women in society.
Same course as SOC 325. Not open for credit to students with credit in SOC 325 or WIST 320.

340. Community Service Learning in Women's Issues (3)
Prerequisites: Upper division standing and two prior women's studies courses, or consent of instructor.
Allows students opportunity to practice theories and knowledge gained as a result of studying women's issues. Students will work in community with agencies addressing women's issues.
Not open for credit to students with credit in WIST 340.

350. Feminist Issues in Mental Health (3)
Introduces issues related to the mental health of women, from historical, anthropological, sociological and psychological perspectives. Emphasis is on the relationship of power, sexism, sex role socialization and gender stereotypes to mental health.
Not open for credit to students with credit in WIST 350.

356. Lesbian Histories and Culture (3)
Examination of lesbianism from psychological and historical perspectives; includes discussions of lesbianism in literature, representations of lesbianism in various media; the place of lesbianism in the politics of the women's movement and in gay liberation; and the development of "queer theory."
Not open for credit to students with credit in WIST 356.

365L. Images of Women in Popular Culture (3)
Prerequisites: Completion of GE foundation requirements, one or more Explorations courses, and upper division standing.
Analyzes the construction of images of women in popular culture. Discussion of theories of culture, gender and ideology. Analysis of film, advertising, magazines and popular fiction.
Not open for credit to students with credit in WIST 465L.

381. Asian American Women (3)
Reconstructs and examines Asian American women's history and contemporary experiences. Assesses complexities of intersecting social categories of oppression and Asian American women's active pursuit of equality and dignity.
Same course as ASAM 381. Not open for credit to students with credit in ASAM 381, HIST 381, or WIST 381.

382. Women and Literature (3)
Prerequisites: Completion of Foundation requirements.
Survey of literature by women authors writing in English, across a range of historical periods; examination of works in various genres that present complexity of women's lives and challenges of female authority; exploration of feminist critical approaches.
Same course as ENGL 382. Not open for credit to students with credit in ENGL 382 or WIST 382.

392. Feminist Pedagogy; Peer Facilitation (3)
Prerequisite: Previous or concurrent WGS 407 class and consent of instructor.
Peer facilitation of small group discussion, teaching assistance and other assignments directed by a supervising faculty member, supplemented by seminar, reading and journal writing.
May be repeated to a maximum of 6 units. Letter grade only (A-F). Not open for credit to students with credit in WIST 392.
401. Bodies and Borders: Feminism and Globalization (3)
Prerequisites: completion of Foundation courses, one or more Explorations course, and upper division standing.
Courses feminist perspectives on contemporary globalization. Examines how we might imagine a more equitable world and why feminism should be concerned with global perspectives. Topics include colonialism, terrorism, food production, women’s labor, migration, militarism, and social movements.
Not open for credit to students with credit in W/ST 411.

402. Women in Political Theory (3)
Prerequisite: Students must have completed one course in either political science or women’s studies.
Differential treatment of women and men in Western political theories, including femininity, power, rationality and the role of women in family. Classic and contemporary texts.
Same course as POSC 401. Not open for credit to students with credit in POSC 401 or W/ST 402.

406A. Asian Women: East and Northeast Asia (3)
Prerequisite: Upper division status.
Exploration of the histories of women in China, Japan, and Korea from prehistory to the present. Major themes include women’s contributions to social, cultural and political change and the complex relationship between feminism and nationalism in the modern period.
Same courses as AS/ST 406A and HIST 406A. Not open for credit to students with credit in AS/ST 406A and HIST 406A.

406B. Asian Women: South and Southeast Asia (3)
Emphasis on modern period; exploration of complexities of women’s roles in multicultural, multilingual societies in South and Southeast Asia, including gender as a continuing site of contention in nationalistic discourse.
Letter grade only (A-F). Same course as AS/ST 406B and HIST 406B. Not open for credit to students with credit in AS/ST 406B or HIST 406B.

410. Women, Religion, and Spirituality (3)
Prerequisites: ENGL 100 and upper division status, or consent of instructor.
Study of women as spiritual and religious beings responding to and coping with largely patriarchal religious doctrine. Examines socio-religious construction of women and women’s religious experience from prehistory to present day. Focus on feminist transformations of religious traditions.
Not open for credit to students with credit in W/ST 410.

413. Feminist Theory (3)
Prerequisites: WGGSS 300 or consent of instructor.
Examines contemporary feminist theoretical perspectives. Discussion of primary sources from a number of positions, including liberal, socialist, poststructural, “third world”, postmodernist and postcolonial feminists. Issues include gender and sexuality, race, ethnicity, class and nationality. Focus on discussion of current debates which cross disciplinary boundaries. Active student participation required.
Letter grade only (A-F). Not open for credit to students with credit in W/ST 413.

416. Queering Gender (3)
Prerequisite: Upper division status.
This course explores the intellectual debates in the emerging field of queer theory, particularly as it connects to women’s experiences and the politics of gender. It will focus on the intervention of queer theory seeks to make into heteronormative culture on all levels of social life.
Not open for credit to students with credit in W/ST 416.

420. Mothers and Daughters (3)
Prerequisites: completion of Foundation courses, one or more Explorations course, and upper division standing.
Examines how mothering is “reproduced” in daughters, and why/how patriarchal culture regulates the mother/daughter bond. Course materials include novels, film, and interdisciplinary theoretical works. Special emphasis on the mother/daughter relationship in a range of historical, racial, class and sexual contexts.
Not open for credit to students with credit in W/ST 420.

424. Women and Environmental Justice (3)
Prerequisites: Completion of Foundation curriculum and upper division status.
Examines complex relationship between women and nature and their treatment through 1) socio-religious ideologies, 2) international development, 3) environmental pollution, and 4) patterns of consumption and waste in industrialized nations. Third World feminists’ insights largely frame the debate.
Not open for credit to students with credit in W/ST 424.

425. Women and Power (3)
Prerequisites: A previous W/ST class (101, 102, or 300) and upper division status or consent of instructor.
Examination of ways power has been defined, obtained, shaped and maintained, and effect this has historically had on women. Applies theory to contemporary issues affecting women and explores strategies for empowerment.
Not open for credit to students with credit in W/ST 425.

430. Women and Violence (3)
Women as victims and survivors of physical, psychological, and philosophical violence. Problems of rape, woman battering, incest, pornography and sexual harassment, examination of legal, religious and philosophical issues and alternatives for change.
Not open for credit to students with credit in W/ST 430.

432. Women in the City (3)
Examines the way women respond to urban environment, both literally and imaginatively. Special attention paid to sexual division of space, particular needs of immigrant and third world women, and urban cities of sisterhood. Readings feature literary texts, augmented by an interdisciplinary range of theoretical and empirical studies of cities.
Not open for credit to students with credit in W/ST 432.

440. Issues in Women’s Health (3)
Prerequisites: Upper division status: ENGL 100, and WGGSS 101, BRIOL 205, BRIOL 207.
Fundamentals of anatomy and physiology relevant to the cause, prevention, and treatment of various health issues, including reproductive organ dysfunction, sexually transmitted disease, infertility, contraception, pregnancy, osteoporosis, cancer, and cardiovascular disease. Emphasizes lifestyle habits such as diet, exercise, and stress.
Not open for credit to students with credit in W/ST 440.

441. Women Writers of the Harlem Renaissance (3)
Prerequisites: ENGL 100 and upper division status or consent of instructor.
Explores literature and lives of women authors of American Harlem Renaissance Period of 1920s. Examines critical reception, relative obscurity, and current re-discovery of these women. Utilizes theoretical essays, biographical narratives, historical documents, and media images.
Same course as ENGL 441. Not open for credit to students with credit in ENGL 441 or W/ST 441.

442. Sexing Chicana Literature (3)
Prerequisites: ENGL 100 and upper division status or consent of instructor.
Examines how Chicana authors explore race, class, and gender. Focused on use of sexuality, particularly with respect to cultural and
literary stereotypes vs. experience and aesthetic practice. Themes will include desire, identity, empowerment through "traditional" roles, and violence and the body.

445A. Latinas and Revolution: Central America and Late 20th Century Mexico (3)
Prerequisite/Corequisite: ENGL 100 and upper division status or consent of instructor.
Examines war and struggles for democracy, shape the social consciousness and political activism of Latinas. Uses literature, film, history, and political theory to examine the role of violence in women's lives, community organizing, and the conceptualization of pan-Latino feminist movement.
Letter grade only (A-F). Same course as CHLS 450A. Not open for credit to students with credit in CHLS 450A or WIST 445A.

445B. Latinas and Revolution: Caribbean, U.S. and Early 20th Century Mexico (3)
Prerequisite/Corequisite: ENGL 100 and upper division status or consent of instructor.
Examines war and struggles for democracy shape the social consciousness and political activism of Latinas. Uses literature, film, history, and political theory to identify differences in contexts of community struggle and points of intersection within Latina activism.
Letter grade only (A-F). Same course as CHLS 450B. Not open for credit to students with credit in CHLS 450B or WIST 445B.

447. Women, Feminism, and Christian Theology (3)
Prerequisite: Completion of GE Foundation.
Letter grade only (A-F). Not open for credit to students with credit in WIST 447.

449. Feminism and International Human Rights (3)
Prerequisite: Upper division status or consent of instructor.
Reviews feminist debates on racism, colonialism, and international human rights. Will consider current international women's rights issues and critiques of western feminist perspectives on veiling, genital surgeries, gender-based persecution, violence against women in war, child, dowry murders, migration and trafficking.
Not open for credit to students with credit in WIST 449.

455. Philosophical Perspectives on Sex and Love (3)
Prerequisite: 6 units of philosophy or consent of instructor.
Philosophical perspectives on sex and love explore philosophical issues concerning sex, gender, and love through readings and discussion of classical and contemporary philosophical sources. Topics such as sexual perversion, romantic love and gender discrimination are examined.
Same course as PHIL 455. Not open for credit to students with credit in PHIL 455 or WIST 455.

475. Language and Gender in Cross-Cultural Perspective (3)
Analysis of men’s and women's communication in its social and cultural context: role of gender in interpreting conversational interactions in the U.S. and elsewhere; acquisition of gender differences, cultural dimensions of perceptions and stereotypes and their effect on communication.
Same course as ANTH 475, LING 470. Not open for credit to students with credit in WIST 475.

485A. History of Women in the U.S. Early Period (3)
Prerequisite: Completion of GE Foundation requirements.
Survey of roles and activities of American women from colonial period to 1850, with focus on slavery, immigration, family, economy, law, and politics.
Same course as HIST 485A. Not open for credit to students with credit in HIST 485A or 485A.

485B. History of Women in the U.S. Since 1850 (3)
Prerequisite: Completion of GE Foundation requirements.
Challenges and status of women in economic and social change; suffrage movement, women in union movement and WW II; the decade of the sixties and the "second wave" of feminism.
Same course as HIST 485B. Not open for credit to students with credit in HIST 485B or WIST 485B.

490. Special Topics (1-3)
Topics of current interest in women's studies, selected for intensive study.
May be repeated to a maximum of 6 units with different topics. Not open for credit to students with credit in WIST 490.

492. Special Topics (1-3)
Topics of current interest in women's studies, selected for intensive study.
May be repeated to a maximum of 6 units with different topics. Not open for credit to students with credit in WIST 492.

495. Senior Capstone Seminar (3)
Prerequisites: Open to WGS 450, minors, or consent of instructor.
Capstone course intended to integrate the multidisciplinary body of knowledge accumulated in the major or minor.
Not open for credit to students with credit in WIST 495.

498. Field Work (1-3)
Prerequisite: Consent of instructor.
Practical experience in campus or community organizations concerned with women's issues.
May be repeated to a maximum of 6 units. Not open for credit to students with credit in WIST 498.

499/599. Directed Studies (1-3)
Prerequisite: Consent of Instructor.
Independent work in areas of special interest to student and instructor.
May be repeated to a maximum of 6 units. Not open for credit to students with credit in WIST 499.

GRADUATE LEVEL

599/499. Directed Studies (1-3)
Prerequisite: Consent of instructor.
Independent work in areas of special interest to student and instructor.
May be repeated to a maximum of 6 units. Not open for credit to students with credit in WIST 599.
GENERAL POLICIES AND REGULATIONS

Election of Regulations for Degree Requirements (Catalog Rights)

Undergraduate students acquire "catalog rights" with respect to the requirements for a degree program by maintaining "attendance" continuously. This means that, if continuous attendance is maintained and the degree objective is not changed, students may choose to graduate under the requirements for the degree in effect (1) at the time they began the study in a California community college or another campus of The California State University, (2) at the time they entered CSULB, or (3) at the time of graduation from CSULB. Substitutions for discontinued courses may be authorized or required by the Dean of the cognizant College. Students who change their major, including changing from "undecided" status to a defined degree objective or from one option to another option under the same degree, are governed by the degree major requirements in effect at the time of the change or declaration of major. Students who change majors are advised that some courses counted for General Education or double counted for General Education and a major may become unacceptable for General Education in connection with a new major. These students should check with the Academic Advising Center.

The term "attendance" means, literally, attendance in a course for at least one semester (or quarter) unit credit in at least one semester (or two quarters) in a calendar year, culminating in a record of enrollment on the student's official transcript. For the purpose of establishing catalog rights, the course must be at the baccalaureate or graduate level in a California community college, a California State University, or a University of California campus. Enrollment resulting in a withdraw (the grading symbols W or WU) does not count as attendance in a course, and so does not preserve "catalog rights."

Once "catalog rights" are established, absence related to an approved medical, military or academic leave or for attendance at another accredited institution of higher education will not be considered an interruption of attendance, provided that the absence does not exceed two years. Please see Educational Leave later in this section.

For all students, disqualification or a failure to remain in continuous attendance will mean that the student must meet the regulations current at the time of resuming the degree program or those applicable at the time of graduation. In addition, for graduate students, a failure to maintain continuous attendance means the automatic revocation of "candidacy" for the degree (advancement to candidacy) and of "catalog rights."

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 CSULB designee. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain 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 will be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies which apply to students. This Catalog does not constitute a contract or the terms and conditions of a contract between the student and CSULB 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. Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices, and procedures, or its faculty and staff, may be found in the Student Grievance Procedure policy later in this section.

The Federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to enroll them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at http://www.sss.gov.

Information concerning the academic programs of CSULB may be obtained from the Academic Vice President, BH 303, at (562) 985-4128 and may include:
1. The current degree programs and other educational and training programs;
2. The instructional, laboratory, and other physical plant facilities which relate to the academic program;
3. The faculty and other instructional personnel;
4. Data regarding student retention at CSULB and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest; and

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Almost 77% of CSULB transfer students eventually earn baccalaureate degrees and over two-thirds do so within four years of transferring. Those rates have been increasing and students are graduating more quickly than in past years. Students who began as junior transfers graduated in an average of 3.00 years (for the cohort whose degrees were awarded in the college year 2007-2008). Community college students intending to transfer would be well-served to seek early advising. Many arrive at CSULB having taken more units than the transfer minimum and with courses that cannot credit toward degrees, delaying graduation and adding costs.

Completing the degree in a reasonable period of time is an important goal for students and parents. The number of units that must be completed to earn a degree, 120-140 units is typically equivalent to about 40-47 three-unit courses (although courses can equate to one to four or more units). At CSULB, degrees in engineering, sciences and the arts generally require the largest number of courses and units. Earning a 120-unit degree within four years requires full time attendance (15 units per semester). Full time attendance is a "full-time job" and requires about 45 hours per week attending class and studying. Completing a degree with a higher unit requirement in a reasonable time requires attending winter session, summer session and/or attending longer than four years.

More detailed data can be found at the CSULB Institutional Research website.

1. Estimated eventual graduation rates are based on a methodology developed by the California State University system that takes into consideration the number of students still enrolled in good academic standing at the six-year point in time.

Accreditation

The University is accredited by the Western Association of Schools and Colleges (985 Atlantic Avenue, Suite 100, Alameda, CA 94501, 510-748-9001), the agency responsible for granting regional accreditation to colleges and universities in California, Hawaii, and Guam. It is accredited by the California State Board of Education and is on the list of approved institutions of the American Association of University Women. Additional information concerning University accreditation may be obtained from the Office of the Provost. Additional information concerning departmental accreditation may be obtained from the department concerned or the Office of the Provost.

- American Language Institute, UCES – Commission on English Language Program Accreditation, 1725 Duke Street, Suite 600, Alexandria, VA 22314-3437, phone: 703-519-2070
- Art – National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700
- Business Administration – Association to Advance Collegiate Schools of Business – International, 601 Emerson Road, Suite 300, St. Louis, MO 63141-6762, phone: 314-872-8481
- Chemistry (undergraduate) – American Chemical Society, Committee of Professional Training, 1156 Sixteenth St., NW, Washington, DC 20036, phone: 202-872-4389
• Communicative Disorders (graduate) – American Speech-Language-Hearing Association, Council on Academic Accreditation, 10801 Rockville Pike, Rockville, MD 20852, phone: 301-970-5700
• Computer Science (undergraduate) – Computer Science Accreditation Commission (CSAC) of the Computer Science Accreditation Board (CSAB), 111 Market Place, Suite #1050, Baltimore, MD 21202, phone: 410-347-7700
• Dance – National Association of Schools of Dance, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700
• Design – National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700
• Dietetics (didactic program) – Commission on Accreditation for Dietetics Education, American Dietetic Association, 216 West Jackson Boulevard, Chicago, IL 60606-6595, phone: 312-899-0040, ext. 5400
• Education – National Council for Accreditation of Teacher Education, 1900 Massachusetts Avenue, NW, Suite 500, Washington, DC 20036-1023, phone: 202-466-7496
• Engineering (undergraduate) – Aerospace, Chemical, Civil, Computer, Electrical, Engineering Technology, Mechanical – Accreditation Board for Engineering and Technology, Inc., 111 Market Place, Suite #1050, Baltimore, MD 21202, phone: 410-347-7700
• Family and Consumer Sciences – American Association of Family and Consumer Sciences, Council for Accreditation, 1555 King Street, Alexandria, VA 22314, phone: 703-784-4600; and Commission on Accreditation/Approval for Dietetics Education, American Dietetic Association, 216 West Jackson Boulevard, Suite 800, Chicago, IL 60606-6595, phone: 312-899-6872
• Health Science (graduate) – Council on Education for Public Health, 1015 Fifteenth Street, NW, Washington, DC 20005, phone: 202-789-1050
• Kinesiotherapy – Commission on Accreditation on Allied Health Education Programs, 36 East Wacker Drive, Suite 1970, Chicago, IL 60601-2208, phone: 312-653-9356
• Music – National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700
• Nursing – Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036-1120, phone: 202-887-6791
• Public Policy and Administration – National Association of Schools of Public Affairs and Administration, Commission on Peer Review and Accreditation, 1120 G Street, NW, Suite 730, Washington, DC 20005, phone: 202-226-9905
• Radiation Therapy – Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 900, Chicago, IL 60606-2901, phone: 312-794-5300
• Recreation and Leisure Studies – National Recreation and Park Association, Council on Accreditation, 22377 Belmont Ridge Road, Ashburn, VA 20148, phone: 703-858-0764
• Theatre Arts – National Association of Schools of Theatre, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, phone: 703-437-0700
• University Art Museum – American Association of Museums, Suite 200, 1225 Eys St., NW, Washington, DC 20005, phone: 202-289-1818

CSULB Principles of Shared Community

CSULB affirms the importance of democratic and transparent decision-making processes as a shared community. The University believes that all members of the University community have not only a right, but also a responsibility, to participate in the governance of this community. Therefore, the University is committed to providing an opportunity for all its members – faculty, students, staff, and administrators – to join in the decision-making process either through direct participation or representative governance.

CSULB is committed to creating a community in which a diverse population of students and employees can learn and work while they share in creating an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual. (Policy 07-09)

CSULB Statement on Civility and Acts of Violence

California State University, Long Beach, takes pride in its tradition of maintaining a civil and non-violent learning, working, and social environment. Civility and mutual respect toward all members of the University community are intrinsic to the establishment of excellence in teaching and learning. They also contribute to the maintenance of a safe and productive workplace and overall healthy campus climate.

The University espouses and practices zero tolerance for violence against any member of the University community (i.e., students, faculty, staff, administrators, and visitors).

Violence and threats of violence not only disrupt the campus environment, they also negatively impact the University’s ability to foster open dialogue and a free exchange of ideas among all campus constituents.

To fulfill this policy, the University strives: 1) to prevent violence from occurring; and 2) to enforce local, state, and federal laws, as well as University regulations, regarding such conduct. The University also has established procedures for resolving and/or adjudicating circumstances involving violence, as well as threats of violence. A threat of violence is an expression of intention that implies impending physical injury, abuse, or damage to an individual or his/her belongings. All allegations of such incidents (i.e., acts and threats) will be aggressively investigated. Allegations that are sustained may result in disciplinary action up to and including dismissal from employment, expulsion from the University, and/or civil and criminal prosecution.

Members of the campus community are encouraged to promptly report any acts of violence, threats of violence, or other behavior which by intent, act, or outcome harm themselves or others. (Approved October 1997)
The Principles:
Equal Access and Opportunity, Non-discrimination/Non-harassment

California State University, Long Beach is a comprehensive, urban university. The University has a professional, cultural and ethical commitment to provide a climate that enables each individual to realize his/her potential for excellence and that nurtures academic growth and professional development.

Diversity is both an ideal and an imperative. California State University, Long Beach takes pride in its student body and employees, and affirms that this diversity enriches the work and learning environment of the campus. For this reason, the recognition of diversity in our University community extends beyond the limits established by federal or state laws or regulations.

In addition to fully meeting its obligations of nondiscrimination under federal and state law, CSULB is committed to creating a community in which a diverse population can learn, live, and work in an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual, without regard to professional rank, employment status, economic status, ethnic background, political views, or other personal characteristics or beliefs.

CSULB takes seriously its tradition of maintaining civility and mutual respect toward all members of the University community. These qualities are intrinsic to the establishment of excellence in teaching and learning. They also contribute to the maintenance of a productive workplace and an overall positive campus climate. Civility and mutual respect thrive only when equal opportunity and access exist, and when all individuals exercise the rights, privileges and obligations as they choose. (Policy 03-09)

Perrin Reid, Director of Equity and Diversity, is the designated campus coordinator for equal employment opportunity, affirmative action, and civil rights.

Policy Prohibiting Discrimination and Harassment

California State University, Long Beach affirms that students, employees, volunteers, members of the public, and recipients of services, and/or benefits provided by CSULB have the right to a University free from discrimination and harassment, including hostile environment, on the basis of race, color, ancestry, national origin, ethnicity, gender, gender identity, religion, sexual orientation, marital status, disability, age, pregnancy, veteran status (Vietnam-Era, special disability and other protected—http://www.opm.gov/veterans/html/vsguideh.htm). These protected categories are identified in the state statute, the Fair Employment and Housing Act, and, to a large extent, in a number of federal statutes.

Retaliation for exercising one’s right to protection from discrimination and/or harassment or for participating in the investigation of a complaint is prohibited by law, and will not be tolerated.

The policy applies to all CSULB programs and activities, including, but not limited to, educational, cultural, recreational, and social and/or athletics programs and activities provided, sponsored, administered, or assisted by CSULB; CSULB academic programs and/or activities; CSULB-sponsored off-campus programs; housing supplied or regulated by CSULB; the administration of educational policies, admission policies, and employment policies and actions, including but limited to, recruitment, hiring, education, upgrading, promotion, transfer, demotion, layoff, recall, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeships; choice of contractors and suppliers of goods and services; provision of services and benefits to CSULB students, employment, volunteers, or the public; receipt of CSULB services and benefits provided by CSULB contractors or vendors.

Federally-required affirmative action plans are available for inspection in the University Library, Reserve Book Room during normal business hours.

Confidentiality

The University is committed to maintaining a safe environment in which individuals can be unafraid to discuss concerns. Any member of the University community may seek general information and guidance about discrimination, harassment, and retaliation issues in confidence and anonymously.

However, the University’s obligation is to take appropriate action to stop prohibited behavior and to prevent retaliation. This may preempt any request for confidentiality.

Complaint Resolution Procedures

Resolution of discrimination, harassment and retaliation complaints is available to all members of the University community. The procedures vary, but are all intended to resolve complaints in a timely and responsive manner at the earliest possible stage.

For employees represented by a collective bargaining agreement, the collective bargaining agreement outlines procedures, process and timelines. Information is available...
from your campus union representative, or online at
http://www.calstate.edu/labor/rof/Contracts.HTML/
contracts.shtml
For employees not eligible to file a complaint or
grievance under any collective bargaining agreement or
whose collective bargaining agreement incorporates CSU
system-wide complaint procedure, the complaint procedure
is outlined in CSU Executive Order 921. It is available
online at: http://www.calstate.edu/labor/rof/Contracts_ 
HTML/Contracts.shtml
For students or other members of the campus
community, guests, visitors, affiliates and associates, the
Campus Complaint Resolution Procedure will apply. Forms
are available in the Office of Equity & Diversity, USU 301.
Please note: for students, these complaint procedures are
applicable if the alleged offender is an employee, vendor,
contractor, or visitor. Alternatively, if the alleged offender
is a student, complaints should be filed in the Office of Judicial
Affairs.
Campus Complaint Procedure – Informal
This procedure is initiated by speaking with one of the
following persons of your choice: Immediate supervisor,
program/office director, department chairperson/director,
dean/associate dean, designated resource person (list
available from the Office of Equity & Diversity or online at
http://www.csulb.edu/depts/ced/resources/res-3-2.htm),
Director of Equity & Diversity.

The individual(s) alleged to have violated University policy
is expected to: provide information about University policy and procedures, ensure
the safety and security of the complainant in the immediate
environment, ensure the due process of the individual(s)
charged, ensure confidentiality to the extent possible by end
with all parties, report the complaint to the Director of Equity & Diversity
within five (5) working days from receipt of the
complaint, consult with the Director of Equity & Diversity at least once per week until the complaint is resolved, an
outcome is reached, or the complaint is referred to the
Director of Equity & Diversity for review and disposition, maintain
records of the complaint and log of all contacts
made, report monthly to the Director of Equity & Diversity
of the number, nature, and outcome of the complaints.
The outcome of all informal complaints must be reported to the
Director of Equity & Diversity. If the proposed remedy is
unsatisfactory to the complainant, or if the complaint is not
resolved in the informal process, the complaint may proceed
to the formal level.
Campus Complaint Procedure – Formal
An allegation becomes a formal complaint only when it
is filed in writing on an official University discrimination
complaint resolution form and is signed, or when the
Director of Equity & Diversity files the complaint. The form
is available from the Office of Equity & Diversity.

The alleged offender will be notified of the complaint by
the Director of Equity & Diversity. The alleged offender is
required to respond in writing.

If agreement is reached, the Director of Equity & Diversity
shall provide all concerned parties with a written
statement of the resolution.

If agreement is not reached, the Director of Equity & Diversity will proceed to evaluate the applicability of
University policy prohibiting discrimination, harassment, and
retaliation to the alleged behavior.

The Director of Equity & Diversity is authorized to
to interview anyone deemed necessary to the investigation.
The investigation will normally be completed within thirty
(30) working days.

Time limits may be extended or waived by the President
or upon request of the Director of Equity & Diversity.

At the conclusion of the investigation, the Director of
Equity & Diversity will submit a report of the complaint,
investigation and findings and recommendations to all
concerned parties, and the appropriate division executive.
The division executive will notify the Director of Equity &
Diversity of resulting action.

Campus Standards of Conduct
Both productivity at work and the learning process are
significantly impaired by alcohol abuse and the use of illicit
drugs. Substance abuse among college students inhibits
their educational development and is an serious nationwide
concern.

California State University. Long Beach is dedicated to
the elimination of the use of illicit drugs and alcohol
abuse. The University is making every effort to create an
environment that promotes and reinforces good health. This
includes responsible living, respect for community and
campus standards and regulations, individual responsibility
within the community, and the intellectual, social, emotional,
ethical, and physical well-being of all members of the
campus community.

On campus property, the solicitation, sale, use or
knowing possession of dangerous drugs, restricted
dangerous drugs, or narcotics, as those terms are used in
California statutes, are prohibited.

Consumption of alcohol is prohibited in individual offices,
classrooms, laboratories, or generally accessible public or
open areas, such as the quad and athletic fields.

Information regarding campus policies on the
consumption of alcohol may be obtained by calling the
Office of Student Life and Development at 985-8668.

Pursuant to Title 5 of the California Code of Regulations,
vioations by students of the above regulations, when
campus related or not, may, after due process, result in the
student being placed on probation, being suspended, or
being expelled. Additionally, violations of laws committed
on campus property, or at a campus event, will also be
subject to referral and prosecution through off-campus
authorities. Penalties by enforcement agencies for violations
of the law may include imprisonment, fines, or both; these
are in addition to administrative sanctions imposed by the
University.

More detailed descriptions of student regulations
concerning drugs, or alcohol, may be found elsewhere in
the CSULB Catalog, or in the Residence Hall Calendar
and Handbook, or in the Regulations for Campus Activities,
Organizations and the University Community.

Pursuant to Education Code Section 98535, employees
may be disciplined, up to and including termination, for
the following causes:
1. Conviction of criminal offenses involving the illegal use of
drugs.
2. Appearing for work impaired by the use of alcohol and/or controlled substances.
3. Addiction to use of controlled substances.
   More detailed descriptions of employee regulations concerning drugs or alcohol may be found in the Administrative Policies and Procedures Handbook and the Faculty and Staff Handbooks.

Don't Put Your Health at Risk

To become dependent upon chemicals such as illicit drugs or alcohol is to put your health at risk. Chemical dependency is a condition in which the use of mood altering substances such as drugs or alcohol is associated with problems in any area of life on a more or less continuing basis.

One does not, however, have to be addicted or chemically dependent to suffer health risks from the use of illicit drugs or alcohol.

Alcohol and illicit drugs (in all the many forms) may, and often do, impair physical coordination and judgment, diminish control over impulsive behavior, and cause many short- and long-term health consequences.

Alcohol-related illnesses now represent the third leading cause of death in the United States exceeded only by cancer and heart disease, and medical research has established very strong evidence that alcohol abuse contributes significantly to cancer and heart disease. There is clear evidence of serious negative effects on babies due to the use of illicit drugs and alcohol by the mother during pregnancy.

If You Have a Problem, We Want to Help

The California State University, Long Beach Health Center offers substance abuse programs for students, faculty, and staff. These include: a Student Assistance Program for students; and Employee Assistance Program for faculty and staff; and an Athletic Assistance Program for student athletes (offered as a separate program due to NCAA testing and eligibility requirements and conference affiliation rules for competition).

An experienced and specially trained therapist under the supervision of the Medical Director serves as the coordinator and counselor for these programs, and medical doctors, other health professionals, and counseling psychologists are available for consultation. All contacts with the Health Center and professional personnel are confidential.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from Ralph Davis, Student Health Services, (562) 985-5850.

The California State University, Long Beach Health Center is located at the corner of State University Drive and Merrimac Drive. The telephone number is (562) 985-4771.

Security on Campus

Campus Security Act

California State University, Long Beach University Police, obtains its powers to arrest from the California Penal Code and the California Education Code.

Reporting Emergencies on Campus

The on-campus emergency phone number is 9-1-1. The non-emergency phone number is (562) 985-4101. Any problems concerning behavior of members of the campus community, theft, vandalism, fire, and all related matters should immediately be brought to the attention of the University Police.

Procedures for Reporting Crimes on Campus

Whenever students or employees become victims of a crime while on the campus of CSULB, or whenever they have witnessed a crime or feel that there is a possibility that a crime is about to occur, they should notify University Police as soon as possible. There are numerous emergency phones located throughout the campus and parking lots, which are direct lines to the University Police dispatcher. Contact University Police by simply locating the nearest emergency phone or by using the emergency phone that is located in all elevators. Individuals may also contact the mobile police units that patrol the campus on a 24-hour schedule. Parking enforcement officers also patrol the parking lots and have direct radio contact with the police dispatcher and the mobile police units. The University Police is located at the far east end of campus, between parking lot "11" and parking lot "9" on Palo Verde Avenue. The Department is open 24 hours a day to respond to any call for service or to any emergency.

Opening Classrooms

Custodians are responsible for unlocking all outside doors and classrooms which do not contain equipment (audiovisual, computers, etc.) at 7:00 am. University Police personnel are responsible for opening buildings on weekends and holidays. Persons requesting a door opened must have proper authorization. Questions of interpretation and special access matters should be directed to University Police.

Security of Buildings

Personnel who require regular access to specific buildings and rooms may request keys. Requests must be approved by the appropriate department and, for some facilities, by the appropriate administrator. Individuals granted special access to rooms and buildings must assume personal responsibility for facilities and equipment during the time they are using these facilities and equipment and must ensure that the door is locked at the conclusion of work.

University Police will ensure that all buildings are secured every night. An individual desiring to remain in a building after normal closing hours is required to notify University Police.

A faculty or staff member who does not have a key but who requires access to a particular building or room after normal instructional or working hours must present proper identification to University Police before being given access to the building. Graduate Assistants and other students who require entrance to a building during other than normal hours must have proper identification and prior approval in writing from the appropriate administrator. This authorization must be on file with University Police.
Anyone who has difficulty in gaining authorized access to an area or who needs assistance in securing a building or room should contact University Police.

Policy Concerning Law Enforcement on Campus
California State University Police Officers are sworn Law Enforcement Officers under California Penal Code, Section 853.2, and in compliance with State Statute meet the police officer standards and training requirements mandatory for all California law enforcement officers. In addition, California State University Police Officers undergo training specifically designed to meet the needs and problems of a contemporary university community.

The primary responsibility of the University Police is the preservation of the public peace and the protection of life and property against all unlawful acts. The department will take all possible measures to prevent crime and accidents, investigate thoroughly all suspicious and criminal activity, and apprehend offenders quickly in all cases where crimes are committed.

Type and Frequency of Programs to Inform Campus Personnel About Security Procedures and Practices
University Police actively invites fraternities and sororities, as well as sports groups and clubs on campus, to participate in the "Acquaintance/Dates Rope" lectures. These classes are scheduled flexibly at no charge to meet the group's needs. The University Police also conducts new employee, orientation, and special group orientations. Officers routinely address residence hall students on a variety of topics, such as drug and alcohol abuse, and the prevention of sexual assaults.

Programs Designed to Prevent Crime
University Police offers an evening escort service for all students and employees. They are picked up and escorted to their vehicles or to the residence halls.

University Police provides employees with information about California law and how to avoid being a victim. Advice is also provided about securing valuables and protecting vehicles.

Statistics on Major Crimes
University Police reports statistics on major crimes monthly to the Office of the President, to the Chancellor's Office, and to the Department of Justice.

Information concerning CSULB policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from University Police, (562) 985-4101.

Information concerning the CSULB annual crime statistics reports may be obtained online at the University Police website http://sitaf.csulb.edu/offices/dpsm/police or by contacting University Police directly at (562) 985-4101.

Firearms on Campus
Any person who brings or possesses a firearm on the grounds of the University, without the prior written permission of the Chief of University Police, or as otherwise provided by law, is in violation of State law (California Penal Code, Section 626.9), and University Regulations, and is punishable by imprisonment. Any person who brings or possesses a device that expels a metallic projectile, such as a BB or pellet, through the force of air pressure, CO2 pressure, or spring action, or a spot marker gun, on the grounds of the University, without the permission of the University Police, is in violation of University Regulations; such action may result in University or legal sanctions.

Off-Campus Monitoring of Criminal Activity at Campus Events
The University Police Department has a close working relationship with the City of Long Beach Police Department. These meetings are on a monthly basis and discuss areas of possible problems. Reports are exchanged with LBPD, LASD, and other police departments.

Policy for the Use of Alcohol and Drugs on Campus
Alcoholic beverages generally may not be consumed on campus except at sponsored events and with specific approval of the Director of Student Life and Development.

Alcoholic beverages may only be consumed on University premises that have been licensed by the Department of Alcohol Beverage Control or on other University premises at "approved group sponsored events." Sponsors of such events must obtain prior written approval from the Office of Student Life and Development. Approval normally will be limited to events in such areas as the University Student Union, the Soroptimist House, or the Chart Room.

The solicitation, sale, use or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics, as those terms are used in California statutes, is prohibited on campus property. Excepted are drugs which are lawfully prescribed or lawfully permitted for the purpose of bona fide research, instruction or analysis.

CSULB is dedicated to the elimination of the use of illicit drugs and alcohol abuse. The CSULB Student Health Services offers substance-abuse consultation programs for students, faculty and staff who may need assistance in overcoming the personal problems associated with alcohol or drug abuse. These programs include a Student Assistance Program for students, an Employee Assistance Program for faculty and staff, and an Athletic Assistance Program for student athletes (offered as a separate program due to NCAA requirements). All contacts with the Health Center and its personnel are confidential.

More detailed descriptions of campus regulations concerning alcohol and drugs may be found in the current editions of the CSULB Catalog, the CSULB Schedule of Classes, Regulations for Campus Activities, Organizations, and the University Community, and the Faculty, Staff and Student Handbooks.

Policy on Sexual Assault
Students, faculty, and staff who are victims of sexual assault committed at or upon the grounds of the University, or upon off-campus grounds or facilities maintained by affiliated student organizations, are required by law to be advised of specified information, to include treatment, related campus procedures, referral options, and other assistance which may be available [California Education Code, Section 67258]. This policy is designed to provide the written procedures and information required.
Rape, including acquaintance rape, or any other form of sexual assault, will not be tolerated by California State University, Long Beach. Where there is evidence that campus-related sexual assault has been committed, severe campus disciplinary action will be initiated. Such campus disciplinary action may include, after due process, the possibility of dismissal, suspension or disenrollment. Additionally, where the victim initiates criminal action, the perpetrator is subject to criminal penalties which may include fines and imprisonment.

**Sexual Assault**

The term "sexual assault" includes, but is not limited to, rape, acquaintance rape, sexual battery, forced sodomy, forced oral copulation, rape by a foreign object, or threat of sexual assault [California Education Code, Section 67389(d)].

Rape is a criminal offense. "Rape" is generally defined as an act of sexual intercourse accomplished with a person not the spouse of the perpetrator, under specified circumstances. For example, it may involve the use or threat of force, violence, retaliation, or fear of actual immediate and unlawful bodily injury. Rape also occurs when the victim is incapable of giving legal consent, for example, when: a) the victim has a mental disorder, or is developmentally or physically disabled; or b) the victim is prevented from resisting the assault due to intoxicating substances (e.g. alcohol or drugs); or c) the victim is unconscious of the nature of the act, and such condition was known or reasonably should have been known to the accused (Reference: California Penal Code, Section 261, and the following sections). Spousal rape is also prohibited under the "Spousal Rape" provisions of the California Penal Code, Section 262.

"Acquaintance Rape" is forced sexual intercourse undertaken by someone the victim knows, against the will of the victim or as a result of threats, force or fear.

"Sexual Battery" is defined as the touching of an intimate part of another person, if the person is unlawfully restrained and if the touching is against the will of the person touched, for the purpose of sexual arousal, sexual gratification, or sexual abuse [Reference: California Penal Code, Section 243.4 (n) (1)].

"Assault with intent to commit a sexual battery" is defined as an unlawful attempt, coupled with the present ability, to commit a violent injury (e.g., rape) or sexual battery on the person of another [Reference: California Penal Code, Section 220; 246 (261), and following sections].

"Consent" is defined as positive cooperation in an act or attitude pursuant to an exercise of free will. The person must act freely and voluntarily and have knowledge of the nature of the act or transaction involved. A current or previous dating or marital relationship is not sufficient to constitute consent where, under specified conditions, consent is at issue [Reference: California Penal Code, Section 261.5; 261(c)]

"Unlawful Sexual Intercourse with a minor" is an act of sexual intercourse accomplished with a person not the spouse of the perpetrator, where the person is under the age of 18 years [California Penal Code, Section 261.5].

Any person who willfully and lewdly commits any Lewd or lascivious act upon or with the body of any part of a child under the age of 14 years with the intent of arousing, appealing to, or gratifying the sexual desires or passions of either the child or defendant is guilty of a felony. Any person who commits any act in the previous sentence with a person 14 or 15 years old, and the defendant is at least 10 years older than the child is guilty of a public offense [California Penal Code, Section 288]. Any person who intentionally gives, transports, provides, persuades or makes available to another a child under age 16 for lewd or lascivious acts is guilty of a felony, punishable by fine and imprisonment [California Penal Code, Section 264(a)]. Every person who annoys or molests any child under the age of 18 is punishable by fine and imprisonment, or both fine and imprisonment [California Penal Code, Section 647.6].

**University Jurisdiction**

California State University, Long Beach views seriously its obligation to uphold the laws of the larger community of which it is a part. An association with the University does not exempt a person from local, state, or federal laws, but rather imposes the additional obligation to abide by all of the rules and regulations of the California State University.

A student charged with a sexual abuse or sexual assault or sexual battery violation which is campus-related may be subject to prosecution under appropriate California criminal statutes, as well as being subject to student discipline under the Student Conduct Procedures (Reference: Chancellor’s Executive Order 97/0, “Student Conduct Procedures”; and Title V, California Code of Regulations, Section 41301-41302, “Student Discipline”).

Employees charged with a sexual abuse violation which is campus-related may be subject to prosecution under appropriate California criminal statutes, as well as being subject to discipline under the California Education Code, Sections 89538-89540. Such campus disciplinary action for employees may include demotion, suspension, or dismissal.

**Campus Reporting Procedures**

Persons involved in, or possessing knowledge of, a campus-related abuse violation are strongly encouraged to notify University Police immediately. University Police may be contacted by:

- using any of the blue lighted telephones
- by depressing the red button on all public pay telephones
- simply dialing (562) 985-4101 or 9-1-1
- anonymous tips can be made by calling (562) 986-5131

An officer will be dispatched and will assist the victim to a medical facility for medical care and collection of evidence.

An officer will assist the victim with a police report should the victim desire to make one. An officer will remain available to the victim until a friend or relative can be located.

The University Police Department cannot hold reports of crime in confidence. Confidential reports for purposes of inclusion in the annual disclosure of crime statistics can generally be made to other CSU campus security authorities identified as the following:

1. Associate Vice President for Student Services
   (562) 985-5887, Brotman Hall 377
2. Director, Counseling and Psychological Services
   (562) 985-4001, Brotman Hall 226
3. Director, Student Health Services
   (562) 985-4771, Student Health Center
4. Director, Staff Human Resources
   (562) 985-4031, Brotman Hall 335
5. Director, Equity and Diversity
   (562) 985-2026, University Student Union 301
6. Director, Judicial Affairs
   (562) 985-5270, Brotman Hall 377
7. Director, Women's Resource Center
   (562) 985-8676, Liberal Arts 3, Rm. 105
8. Director, Housing and Residential Life
   (562) 985-4102, Housing Office
9. Director, Athletics
   (562) 985-4665, Pyramid Annex

Alternatively, one may anonymously report a crime to any of the above listed campus authorities. Each respective unit or person contacted will be responsible for reports, as may be required by law, to be filed for their respective unit, e.g., violations under the Child Abuse Reporting Law, Jeanne Clery Act or Moeran’s law.

Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act

Access crime statistics for CSULB. These are mandated statistics as the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. Hard copies of this brochure may be obtained from CSULB Police Department’s main station located on the southern end of parking lot 11, 1200 Bellflower Blvd, or from the police substation located in the University Student Union room, 237. This report is also available on the University Police web site at http://dsf.csulb.edu/offices/ppf/police, and can be downloaded in the PDF format. This report is prepared in cooperation with the Police agencies surrounding our main campus and our alternate sites, Housing and Residential Life, the Judicial Affairs Office, and the Division of Student Services. Each entity provides updated information on their educational efforts and programs to comply with the Act.

The following are among the options available to a victim and more than one option may be exercised:
1. Criminal Prosecution: University Police - (562) 985-4110
   Emergency: 9-1-1
2. Civil Action: Consult an attorney.
3. University Disciplinary Process, where accused is:
   A. Faculty: Academic Employee Relations
      (562) 985-5208; BH-300
   B. Staff, Staff Human Resources
      (562) 985-4126; BH-303
4. Informal Mediation: Office of the University Ombudsman
   (562) 985-5868; FND-140
5. Alternative Campus Housing Assignments: Director, Housing
   (562) 985-4167; Housing Office
6. Academic Assistance:
   A. Counseling and Psychological Services
      (562) 985-4001, BH 226
   B. Women's Resource Center
      (562) 985-5466; LAC-105
   C. Academic Advising Center
      (562) 985-4837; Homer Center, Room 103

In the event there are requests for information from the press, concerned students, parents, and others, prudence will be exercised, and, when required by law, confidentiality will be maintained. When appropriate, only the Department Director (for matters strictly within the Director’s purview), or the University Director of Public Affairs (for inquiries by the media), will respond.

Victims are advised that there could likely be a need to identify both the victim and the assailant in the course of investigation and hearings under University student disciplinary proceedings, as well as under employee disciplinary proceedings, or criminal proceedings. In the case of student disciplinary actions against an assailant, the victim is required to be promptly notified by the Director, Judicial Affairs of the status of the proceedings, and the general terms of the disposition.

Persons are reminded of the importance of preserving such evidence as may be necessary to the proof of criminal (sexual assault). With respect to sexual assault involving student discipline, both the accused and the accuser are entitled to have an advisor present during a campus disciplinary proceeding, and to be informed of the outcome of the campus student disciplinary proceeding. Student victims of sexual assault may request changes in academic and living arrangements precipitated by the offense where such changes are reasonably available.

Support Services

Sexual assault violations often result in physical harm, psychological harm, or both. Even if the victim decides not to report the incident to authorities, it is urged that the victim seek medical and counseling assistance for potential emotional trauma and the possibility of sexually transmitted diseases.

• The University Counseling and Psychological Services provides crisis counseling as well as ongoing assistance to students who have experienced sexual assault, BH 226, (562) 985-4001, www.csulb.edu/caps.
• The University Student Health Center offers routine medical examinations, including pregnancy tests and tests for sexually transmitted diseases, (562) 985-4771.

• The University Women's Resource Center provides video tapes, books, and brochures for both men and women referrals to community services are also provided, (562) 985-5466.

• S.A.R.T (Sexual Assault Response Team) The University Police is an active participant of the Long Beach S.A.R.T. process. This process offers individuals forensic exams to victims of sexual assault and child molestation. Coordination is with University Police, Long Beach Police Department, District Attorney's office, a forensic nurse and a rape crisis counselor. The police dispatcher activates the S.A.R.T. process after the officers have connected with the victim. The University Police may be reached by calling (562) 985-4101 or 9-1-1. S.A.R.T. is located at Long Beach Community Hospital. A victim may be driven to Long Beach Community Hospital, 1720 Termino Ave., Long Beach, for the S.A.R.T. services. The emergency room staff will contact S.A.R.T. directly.

Additionally, referrals are available through the following non-university agencies:
1. Interval House Hotline, (562) 594-1555
2. The Rape Crisis Hotline – Long Beach Area, (562) 597-2002
3. The Rape Crisis Hotline – South Bay Area, (310) 545-2111
4. The Rape Crisis Hotline – Orange County, (714) 834-9110
5. The Sexual Treatment Center – Santa Monica Hospital, (310) 319-4000
6. The Sexual Assault Crisis Agency, (562) 597-2002 or (562) 889-5900
7. The Sexual Assault Hotline, (714) 957-2737
8. The Victim Witness Assistance Hotline, (714) 957-2737;
9. Safe At Home Confidential Address Program, (877) 322-5227; www.so.ca.gov/safeathome/

Also, the center of Counseling and Psychological Services office maintain lists of referrals within the community which deal with the issues of rape and sexual assault crimes, including legal, medical, and therapeutic support services. The phone number for the University Counseling and Psychological Services office is (562) 985-4001.

**Victims of Violent Crime Statute**

A person who has sustained physical injury as a direct result of a crime of violence, or is legally dependent for support upon a person who has sustained physical injury or death as a direct result of a crime of violence shall have the right to privacy of information concerning such violent crime maintained by the University. This information includes but is not limited to the name and address of the student, the nature and circumstances of the crime, the date and time of the crime, and the identity of the perpetrator. The University shall ensure the confidentiality of such information and shall not disclose it except as required by law or as otherwise permitted by the California Constitution and statutes.

**Student Educational Records and Privacy Rights**

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1292-g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student 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 the records 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 Enrollment Services or the Office of Judicial Affairs. 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 rights 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 Ave., S.W., Washington, D.C. 20202-5620.

The campus is authorized under the Act to release "directory information" concerning students. CSULB designates the following items authorized by FERPA as directory information: student's name, address (see below for conditions), telephone number (see below for conditions), e-mail address, major field of study, dates of attendance, grade level, enrollment status, and degrees, honors, and awards received. Addresses and telephone numbers for currently enrolled students will be released to CSULB personnel and units solely for the purpose of conducting legitimate University business. They may not be shared with individuals or organizations outside the University except in accordance with the following provisions. Addresses and telephone numbers may be released for non-commercial use by individuals or organizations outside the University provided the requests for such information have been reviewed and approved by the appropriate University personnel. Requests from the academic offices of accredited educational institutions shall be reviewed by the Provost and Senior Vice President for Academic Affairs or designee. All other requests shall be reviewed by the Vice President for Student Services or designee. Otherwise, the University may disclose any of the items designated as "directory information" above without prior written consent, unless the student provides a request that certain information not be released (non-disclosure). Requests for non-disclosure may be made directly by the student utilizing their self-service account in the student system via the Internet. If the student does not have access to the Internet, their request for non-disclosure must be requested on the "Authorization to Withhold Student Information" form, available in the Office of Enrollment Services. Specifying items as directory information allows the University to disclose this information without prior written consent. It does not require that the University
release the information except under court direction. In addition to the above, the Director of Athletics may provide information concerning participation of students in athletic events, including the height and weight of athletes. The University will also respond to requests for information regarding the employment status of students serving as Teaching Associates (TAs), Graduate Assistants (GAs), or Instructional Student Assistants (ISAs) and the departments that employ them.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. Those persons have responsibilities in campus’ academic, administrative, or service functions and have reason for accessing 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; for specified health or safety matters; or to other institutions in which the student has enrolled).

Career Placement Information

The Career Development Center office 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. Any such data provided shall be in a form that does not allow to the identification of any individual student. 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.

Use of Social Security Number

Applicants are required to include their correct social security numbers 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 the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the University to file information returns that include the student’s social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. That information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

Taxpayers who claim Hope Scholarship or Lifetime Learning tax credits will be required to provide the campus with their name, address, and Social Security Number.

Student Grievance Policy

The CSULB grievance policy and procedure are designed to provide the campus community with a protocol to accommodate circumstances for which no other policy or procedure exists. This policy does not cover grade appeals, prohibited discrimination, or any other issues that are covered by existing policies. Students are advised to consult appropriate additional campus resources (e.g., the Undergraduate and Graduate Catalog, the Schedule of Classes, “The Regs”). The Office of the Dean of Students has staff to help students understand the details of the grievance procedure and may be called upon for assistance.

Student Grievance Procedure

The student grievance procedure at CSULB is intended to provide a formal, standardized means for students to seek redress concerning the actions of faculty members, administrators, or staff members of the university-actions that are unauthorized or unjustified and that adversely affect the status, rights, or privileges of the students. Further, the purpose is to establish due process and safeguards that will be followed by the university in the adjudication of grievances.

A grievance filed under this policy must be initiated within one year of the alleged violation. A grievance may not be filed on the basis of a student’s judgment of an instructor’s or administrator’s competence; such judgments are solely the province of the academic department involved or of the administrator’s supervisor.

The grievance procedure is not designed to replace open communication and understanding, which are vital to the academic process. The student may withdraw the grievance at any stage, at which point the process will immediately terminate. During all stages of the grievance, the burden of proof will be on the student.

The person or entity against whom the complaint is made is referred to in this document as the respondent. The initiator of the grievance is referred to as the grievant. For nonacademic matters, the term dean is also construed to refer to the responsible individual of comparable level—typically an associate vice president or vice president.

In the event that the respondent is at the level of dean or higher, the complaint should be directed to the responsible person at the next higher administrative level. If the chair or program director was directly involved in the original decision or denied the student an opportunity for due-process review at the local level, the student should seek informal resolution through the dean of the college (or designee).

If after ten instructional days beyond the initial informal meeting a satisfactory resolution is not reached, the department chair or program director will meet with the student grievant and the respondent. Within fifteen instructional days of that meeting, the chair or program director will complete an investigation of the allegations and will reach conclusion. The chair or program director shall promptly communicate the decision to the student and the respondent. If the grievant is not satisfied with the results of the informal process, he or she may initiate a formal grievance procedure by contacting the appropriate college dean (or designee) or the responsible person at the next nonacademic level within fifteen instructional days of the decision. (P.S. 07-01)
Formal Grievance Procedure

To initiate the formal grievance procedure, the student is required to submit a written "statement of grievance"—a clear, concise, signed, and dated statement of events from the student's perspective. The statement should provide enough information to present a complete understanding of the situation and of the remedy sought by the student.

A student initiates the formal procedures by submitting the statement of grievance to the appropriate department chair or program director. The chair or director will then submit a copy of the statement of grievance to the appropriate college dean or next appropriate higher administrative level and to the respondent. The respondent is required to submit a written response to the chair or program director within ten instructional days. The chair or program director will then provide a copy of the respondent's reply to the grievant and to the college dean or next appropriate higher administrative level.

The dean or appropriate administrator has a period of ten instructional days to review the case, during which he or she may opt to seek additional information from the parties involved or from witnesses. By the end of that ten-day period, the dean or administrator will either (1) render a decision or (2) convene a College Hearing Committee to investigate further. The student shall have the right to request that a College Hearing Committee be convened.

College Hearing Committee

If required, a College Hearing Committee will consist of an administrator representing the dean, two faculty members elected from the Faculty Council of the appropriate college, a student representative elected from the Student Council of the appropriate college, a designee of the vice president for student services, and faculty advisor elected by the Academic Affairs Council appropriate to the grievance. All meetings of the College Hearing Committee will be closed to the public, and no transcripts will be prepared. If the college hearing committee seeks evidence by means of personal testimony, the meeting at which such evidence is presented shall be conducted in the manner of any other academic committee meeting and is not considered a formal hearing. Both the grievant and respondent shall be given opportunities to present their views. There shall be no cross-examination.

The charge of a College Hearing Committee is to investigate and then to recommend to the dean a proposed resolution. The College Hearing Committee will review the grievance and, if necessary, forward supplemental queries to the respondent and to the department chair and program director involved—along with direction to submit written responses within twenty instructional days. Once the College Hearing Committee has received the written responses, it will review all available evidence, conduct deliberations, and then choose one of the three courses of action:
- Remand the grievance to the dean with a recommendation of immediate corrective action in favor of the grievant—based on sufficient evidence of a violation of (1) university regulation or policy or (2) principle of due process or (3) both.
- Defer a decision to allow for further investigation and gathering of evidence. In the case of such a continuation, both the grievant and the respondent will be notified in writing of the additional evidence required and whether that evidence should be provided in writing or in personal testimony.
- Dismiss the grievance based on a (1) lack of sufficient evidence or a violation of the university regulation or policy and (2) confirmation of adherence to principles of due process.

The College Hearing Committee will forward the recommendation to the dean. The dean will then make a decision and forward that decision to the respondent and grievant. If neither the respondent nor the grievant requests further review, then the grievance process ends.

If either party wishes to appeal the decision of the Dean, the appeal, in writing, may be made to the Provost (academic) or appropriate Vice President (non-academic). The appeal must be made within ten instructional days of the dean's decision. The Provost or Vice President will notify both parties of the appeal and convene a University Hearing Committee to investigate further.

University Hearing Committee

If required, a University Hearing Committee will consist of an administrator representing the Provost, three faculty members selected from the Panel on Professional Responsibility according to the procedures of that policy, and a student elected from the Associated Students, Inc. All meetings of the University Hearing Committee will be closed to the public, and no transcripts will be prepared. If the University Hearing Committee seeks evidence by means of personal testimony, the meeting at which such evidence is presented shall be conducted in the manner of any other academic committee meeting and is not considered a formal hearing. Both the grievant and respondent shall be given opportunities to present their views. There shall be no cross-examination.

The charge of a University Hearing Committee is to investigate and then to recommend to the Provost a proposed resolution. The University Hearing Committee will review the grievance and, if necessary, forward supplemental queries to the respondent and to the Provost—along with direction to submit written responses within twenty instructional days. Once the University Hearing Committee has received the written responses, it will review all available evidence, conduct deliberations, and then choose one of the three courses of action:
- Remand the grievance to the Provost with a recommendation of immediate corrective action in favor of the grievant—based on sufficient evidence of a violation of (1) university regulation or policy or (2) principle of due process or (3) both.
- Defer a decision to allow for further investigation and gathering of evidence. In the case of such a continuation, both the grievant and the respondent will be notified in writing of the additional evidence required and whether that evidence should be provided in writing or in personal testimony.
- Dismiss the grievance based on a (1) lack of sufficient evidence or a violation of the university regulation or policy and (2) confirmation of adherence to principles of due process.
The University Hearing Committee will forward the recommendation to the Provost. The Provost will then make a decision and forward that decision to the respondent and grievant. The University Hearing Committee shall function as the final level of this grievance process.

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.

(a) 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 to contribute positively to the student and university life.

(b) Unacceptable Student Behavior

The following behavior is subject to disciplinary sanctions:

(1) Dishonesty, including:
   (A) Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
   (B) Furnishing false information to a University official, faculty member, or campus office.
   (C) Forgery, alteration, or misuse of a University document, key, or identification instrument.
   (D) Misrepresenting one's self 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 and interfere with 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, loud, 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 hazing. 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 246.6), 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 pharmaceuticals.

(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, Replica, ammunition, explosives, fireworks, knives, or 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.

(16) Violation of any published University policy, rule, regulation or presidential order.

(17) Failure to comply with directions or, 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.

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(19) Violation of the Student Conduct Procedures, including:
   (A) Fabrication, 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.

(c) 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.

(d) 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.

41302. Disposition of Fees; Campus Emergency; Interim Suspension
   The President of the campus may place on probation, suspend or expel students 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 they are suspended or expelled will be refunded. If the students are readmitted before the close of the quarter, or summer session in which they are suspended, no additional tuition or fees will be required 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, or measures deemed necessary or appropriate to meet the emergency, to safeguard persons and property, and to 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 will be given prompt notice of charges and the opportunity for a hearing within ten 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 designee designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension will be grounds for expulsion.

41303. Conduct by Applicants for Admission
   Notwithstanding any provision to the contrary, admission or readmission may be qualified or denied to any persons who, while not enrolled as students, commit acts which, were they enrolled as students, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be disqualified or denied to any persons who, while students, commit acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases will be determined under procedures adopted pursuant to Section 41304.

41304. Student Disciplinary Procedures for The California State University
   The Chancellor will prescribe, and may from time to time revise, a code of student disciplinary procedures for The California State University. Subject to other applicable law, this code will provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admissions or denial of admission under Section 41303, the authority of the campus President in such matters; conduct-related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor will report to the Board actions taken under this section.
   The current University regulation on alcoholic beverages is stated in the CSULB Policies, Information and Regulations Handbook published by the Office of Student Affairs.
   Additional detailed information relating to student discipline is available in the Office of Student Affairs, and from the Office of the Vice President for Student Services.

Administrative Action
   Procedures and sanctions of the Office of Judicial Affairs are under the administration of the Vice President for Student Services and are conducted pursuant to the authority provided in Section 41301 of Title 5 of the California Code of Regulations. Copies of Section 41301 of Title 5 may be found in the University Catalog and the Campus Regulations available in the Office of Judicial Affairs. Copies of Chancellor's Executive Order 970, "Student Conduct Procedures" are also available upon request.
   The Vice President for Student Services will report annually to the President and the Chair of the Academic Senate a summary of the charges concerning cheating and plagiarism brought before the Office of Judicial Affairs.
Judicial Affairs

The Office of Judicial Affairs (Brotman Hall - 377) provides assistance with the interpretation and enforcement of campus regulations. Complete copies of the CSULB "Campus Regs," including a listing of infractions which may result in student disciplinary action under Title 5, Section 41301, of the California Code of Regulations, "Probation, Suspension and Expulsion of Students," are available in this office; also available are copies of Executive Order 970, "Student Conduct Procedures." General assistance and aid in directing individuals to the proper procedures, departments and personnel may be obtained in this office.

Alleged violations are investigated primarily through informal office conferences with the involved students. The conferences which are held as a result of impending disciplinary action are:
1. To clarify the referral, the charges, or the circumstances involved;
2. To prevent the incidence of, or further occurrences of, violations; and
3. To educate as a preventive experience and to indicate the possible consequences as a result of committing a violation. Discussion is centered on the cause-and-effect relationship of various courses of action and, when possible, alternate paths or solutions are explored.

Fee Establishment and Policies

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

The total support cost per full-time equivalent student includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of full-time equivalent students (FTES). The total CSU 2008/09 final budget amounts were $2,970,706,000 from state General Fund appropriations (not including capital outlay funding), $1,251,321,000 from State University Fee (SURF) revenue, $2,766,090,000 from other fee revenues and reimbursements for a total of $4,498,120,000. The number of projected 2008/09 full-time equivalent students (FTES) is 356,950. The number of full-time equivalent students is determined by dividing the total academic student load by 16 units per term (the figure used here to define a full-time student's academic load).

The 2008/09 average support cost per full-time equivalent student based on General Fund appropriation and State University Fee revenue only is $11,658 and when including all sources as indicated below is $12,633. Of this amount, the average student fee support per FTE is $4,290, which includes all fee revenues in the CSU Operating Fund (e.g., State University Fee, nonresident tuition, application fees, and other miscellaneous fees).

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
<th>Student</th>
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<tbody>
<tr>
<td>2008/09</td>
<td>$4,498,120,000</td>
<td>$12,633</td>
<td>100%</td>
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<tr>
<td>Total Support Cost</td>
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<tr>
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<tr>
<td>Other Income and Reimbursements</td>
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</tbody>
</table>

"Student fee support represents campus 2008/09 final budget submitted State University Fee revenue.

"The other income and reimbursements represent campus other fee 2008/09 final budget revenue submitted, as well as reimbursements in the CSU Operating Fund. The average CSU 2008/09 academic year resident, undergraduate student fees required to apply to, enroll in, or attend the university is $3,849. 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 a Student Body Fee

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 82300). 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 82304). The student body fee was established at CSULB by student referendum in April 7, 2000. The campus President may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (Education Code, Section 82300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the University. Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code, sections 90012, 90027, and 90066. Student body association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committees and a student referendum. The campus President may use alternate consultation mechanisms if he/or 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 establish a new mandatory fee. The President shall provide to the fee advisory committee a report of all campus-based mandatory fees.
fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor's Office at (562) 951-4568.

**Tax Credits for Higher Education**

The Taxpayer Relief Act of 1997 encourages postsecondary and continuing education by providing tax benefits to students and their families. Taxpayers can claim one, or in some cases, two of these new tax credits for expenses they pay for postsecondary education for themselves and their dependent children. These tax credits can directly reduce the amount of federal income tax for returns filed.

The Hope Scholarship Credit is available on a per-student basis for the first two years of postsecondary education. The maximum credit is $1,500 per student. It will be offered to students or parents who pay tuition and related expenses for attendance at least half-time in a degree-granting program.

The Lifetime Learning Credit provides a tax credit to parents and/or students of up to $2,000 of total annual educational expenses, per return. Education expenses that are paid with tax-free grants, scholarships, are not eligible for either tax credit. Education expenses paid with loans are eligible for these tax credits. Interest paid on qualified student loans may also be deductible from taxpayer income. Interest can be taken as a deduction during the first 60 months (5 years) of repayment on student loans.

To assist you in taking advantage of these tax credits, the University will provide you with the following information:

- **Form 1098T (Tuition Payments Statement)** - This form must be submitted along with your federal tax return to claim these credits.
- **Form W-9S (Request for Student's or Borrower's Social Security Number and Certification)** - This form should be completed and returned to the University, if your social security number is incorrect.
- **Telephone inquiries at (562) 985-4169**
- **Online at MyCSULB.edu**
- **In-person inquiries at Brozman Hall 155**
- **IRS Publication 970, Tax Benefits for Education www.irs.gov**

Either your lender or loan servicer will provide interest deduction information to you. Those eligible will be provided with a 1098E form, which must be submitted along with your federal tax return to claim this deduction.

NOTE: The information described above, and the information available via MyCSULB or phone regarding the new tax benefits, is in general terms. Your ability to claim these tax benefits depends on your individual circumstances. We recommend that you consult a tax advisor to determine your personal eligibility.
CSU, Long Beach Administration

Office of the President
Executive Assistant to the President.................................................Karen Nakamatsu
University Orchards............................................................................Betsey DeBoy
Director, Equity and Diversity...............................................................Penny Reid
Director, Athletics................................................................................Victor Ciegles
Special Assistant, Government Relations..............................................Elena Macias

Office of Academic Affairs
Provost and Senior Vice President, Academic Affairs.........................Karen Gould
Assistant Provost for Academic Resources.......................................Jodi Noel
Director, Facilities Planning and Purchasing......................................Linda Stumpf
Assistant Vice President for Academic Affairs..................................David Doss
Director, Academic Personnel............................................................Holly Harbinger
Senior Director, Employee Relations...................................................Stone Coffer
Academic Personnel Manager............................................................Elizabeth Martin
Director, Faculty Center for Professional Development.......................Teresa Allen
Director, Center for Community Engagement.....................................Jean Beltrero
Special Assistant to the Provost..............................................................Dorothy M. Goldschmidt

Office of Student Services
Vice President for Student Services.....................................................Doug Robison
Director, Administrative Services......................................................Paula Gabson
Assistant Vice President, Budget and Human Resources......................Douglas Harris
Director, Development......................................................................Kathryn Courtyard
Director, Housing and Residential Life.............................................Carol Roberts-Corb
Director, Student Life........................................................................Leland Voll
Director and Chief of Medical Staff, Student Health Services..............Michael Carlucci
Program Review Analyst.....................................................................Ray Dolan

Office of Institutional Research
Vice President for Institutional Research.............................................Jerald C. Janssen
Director, Institutional Research............................................................Karen Nakamatsu
Assistant Director, Institutional Research..........................................William Brown

Office of the President
Assistant to the President......................................................................Elena Macias

Office of the Provost
Executive Assistant to the Provost.......................................................Linda Stumpf
Director, Academic Affairs.................................................................David Doss
Director, Academic Personnel............................................................Holly Harbinger
Senior Director, Employee Relations...................................................Stone Coffer
Director, Faculty Center for Professional Development.......................Teresa Allen
Director, Center for Community Engagement.....................................Jean Beltrero
Special Assistant to the Provost..............................................................Dorothy M. Goldschmidt

Office of the Provost
Assistant Provost, Academic Affairs....................................................Jodi Noel
Director, Facilities Planning and Purchasing......................................Linda Stumpf
Assistant Vice President for Academic Affairs..................................David Doss

Division of Student Services
Vice President for Student Services.....................................................Doug Robison
Director of Student Services...............................................................Paula Gabson
Assistant Vice President, Budget and Human Resources......................Douglas Harris
Director, Development......................................................................Kathryn Courtyard
Director, Housing and Residential Life.............................................Carol Roberts-Corb
Director, Student Life........................................................................Leland Voll
Director and Chief of Medical Staff, Student Health Services..............Michael Carlucci
Program Review Analyst.....................................................................Ray Dolan

Office of the Provost
Assistant to the Provost......................................................................Elena Macias

Office of the Provost
Assistant Provost, Academic Affairs....................................................Jodi Noel
Director, Facilities Planning and Purchasing......................................Linda Stumpf
Assistant Vice President for Academic Affairs..................................David Doss

Division of Student Services
Assistant Vice President for Student Services.....................................Mary Ann Takamoto
Director, Career Development Center..............................................Manuel Poma
Coordinator, Cooperative Education....................................................Erin Booth
Director, U.S. Passport Application......................................................Erin Booth
Director, Veterans Affairs..................................................................Cynthia Hulon
Director, Counseling and Psychological Services..............................Brad Comfort
Assistant Director, Disabled Student Services......................................David Santillipino
Director, Disability Services.................................................................Howard Witty
Director, College Assistance Program.................................................Willy Ramirez
Director, Educational Talent Search.....................................................Loretta Alatorre
Director, Educational Opportunity Center.........................................Michelle Scott
Director, Student Support Services.....................................................Michelle Scott
Director, McNair Program.................................................................Howard Witty
Director, Upward Bound.................................................................Phillip Humphreys
Director, Educational Opportunity Program........................................Ed Espinoza
Director, Testing and Evaluation Services.............................................Susan Pratt
Director, University Outreach / School Relations................................Valerie Bonneau
Coordinator, Early Assessment Program..............................................Leslie Nance
Director, Student Opportunity and Access Programs.............................Michelle Scott
Coordinator, President's Scholars Center.............................................Jennie Hurley
Assistant Director, President's Scholar's Center.....................................Mike Hostetter
Assistant Dean of Students.....................................................................Jasmin Cavalcante
Coordinator, Center for Scholarly Information.......................................Valerie Kohls
Director, Club Sports and Recreation...................................................Rhoda Hayes
Director, Athletics...............................................................................Teo Malatis
Coordinator, Partners for Success Student Services................................Carol Madsen-Fuller
Director, Student Life and Development................................................Jeff Klaus
Director, Student Transition and Retention Services (STARS/STARS)............................................................................Jes Kelly
Director, Women's Resource Center.....................................................Lynne Coone
Associated Students, Inc.
President.........................................................................................Erin Swirlik
Vice President....................................................................................Christopher Chavez
Treasurer..............................................................................................Brian Troubridge
Executive Director.............................................................................Richard Holler
Director, Internships..........................................................................Glenn McDonald
Director, Isadore Hallstrom Child Development Center............................Rhonda Mantius
Director, University Student Union......................................................Joe Edwards

Division of Administration and Finance
Vice President for Administration and Finance.....................................Mary Stephens
Director, Real Estate/Technology Park....................................................Marc Tilden
Assistant Vice President for Budget and University Services....................Ted Kadowaki
Assistant Vice President, Budget and Finance.......................................Michele Kekuewa
Assistant Director, Budget Management..............................................Maggie Wang
Director, Auditing...............................................................................Ayni Snell
Director, Risk Management and Information Security.............................MaryAnn Kaczmar
Emeriti Faculty
(Number in parentheses indicates year of appointment)

Art
Harbert L. Aarons (1965) Associate Professor Emeritus, 1991
Social Work
Paul Abel (1966) Professor Emeritus, 2000
History
Rafael Alouli-Eh-Haj (1964) Professor Emeritus, 1995
History
Eugene Albert (1967) Associate Professor Emeritus, 1992
Mathematics
Occupational Studies
Civil Engineering
Civil Engineering
Frank J. Allison (1967) Professor Emeritus, 1994
Biological Sciences
Mathematics
Barbara S. Allen (1979) Professor Emerita, 1995
Music
Dance
English
Biological Sciences
Academic Affairs
Rhoda M. Anderson (1974) Associate Professor Emeritus, 1988
Recreation and Leisure Studies
Robert E. Anderson (1964) Professor Emeritus, 1988
Music
Roy C. Anderson (1965) Professor Emeritus, 1996
Economics
Shane Andre (1967) Professor Emeritus, 1994
Philosophy
Carl R. Arneilno (1964) Professor Emeritus, 1994
Biological Sciences
Blair C. Archer (1959) Professor Emeritus, 1983
Art
Arturo L. Archeuta (1965) Associate Professor Emeritus, 1985
Spanish/Portuguese
Harold Aspiz (1958) Professor Emeritus, 1999
English
Marketing
Teacher Education/Linguistics
Mathematics
Arthur M. Axelrod (1964) Professor Emeritus, 1996
English
Physics and Astronomy
Mathematics
Patricia A. Bachelor (1985) Professor Emerita, 2005
Psychology
Joanne Bader (1992) Associate Professor Emerita, 2002
Family and Consumer Sciences
Jerry Bailey (1968) Associate Professor Emeritus, 1990
Theatre Arts
Peggy Bain (1968) Professor Emeritus, 2001
Chemistry and Biochemistry
John J. Baird (1956) Professor Emeritus, 1984
Biological Sciences
Radio Television and Film
Dorothy W. Baker (1967) Associate Professor Emerita, 1983
Home Economics
Accounting
Dorothy W. Baker (1967) Assistant Professor Emerita, 1983
Home Economics
Accounting
Donald M. Barber (1975) Professor Emeritus, 2000
Public Policy and Administration
Comparative World Literature and Classics
Ingrid F. Bartenbach (1964) Professor Emeritus, 1988
German, Russian and Classics
Kenneth J. Bartlett (1935) Professor Emeritus, 1993
Physical Education
Anthropology
Management and Human Resources Management
Religious Studies
Roger D. Bauer (1959) Dean, Professor Emeritus, 1992
College of Natural Sciences and Mathematics, Chemistry and Biochemistry
Marion J. Beaumont (1967) Professor Emerita, 1996
Economics
Teacher Education
Chemistry
Harold K. Becker (1965) Professor Emeritus, 2000
Criminal Justice
Alexander L. Beerlin (1968) Professor Emeritus, 2006
Psychology
Mathematics
Finance, Real Estate and Law
Donald A. Beegle (1963) Professor Emeritus, 1988
Health Science
Bruce E. Beekman (1968) Professor Emeritus, 1992
Biological Sciences
Virginia M. Belt (1963) Professor Emerita, 1983
Finance
Educational Psychology, Administration, and Counseling
Marilyn J. Bergin (1971) Senior Assistant Librarian Emerita, 1997

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Michael E. Bernard (1995) Professor Emeritus, 2006 Educational Psychology, Administration, and Counseling
Robert M. Beris (1957) Professor Emeritus, 2004 Public Policy and Administration
David A. Birstein (1967) Professor Emeritus, 1999 History
Arnold J. Berry (1973) Professor Emeritus, 1992 Chemistry and Biochemistry
George V. Betar (1963) Professor Emeritus, 1981 English
Jutta G. Birmele (1989) Professor Emerita, 2006 Romance, German, Russian Languages and Literatures
Mark C. Wiedebach (1967) Professor Emeritus, 1996 Biological Sciences
Virginia L. Binder (1967) Professor Emerita 2004 Psychology
Albert G. Black (1962) Associate Professor Emeritus, 1968 English
Paul V. Black (1960) Professor Emeritus, 2005 History
Stuart E. Black (1962) Associate Professor Emeritus, 1991 Computer Engineering and Computer Science
Enid V. Blaylock (1966) Professor Emerita, 1983 Educational Psychology and Administration
Stephan K. Blumberg (1975) Professor Emeritus, 1998 Public Policy and Administration
David C. Bordora (1962) Professor Emeritus, 1990 Art
Warren J. Boring (1956) Professor Emeritus, 1981 Physical Education
Edward J. Borowicz (1962) Professor Emeritus, 2000 English
Archie Boston (1977) Professor Emeritus, 2005 Art
James A. Bourret (1968) Professor Emeritus, 1992 Biological Sciences
Angela Bowon (1966) Assistant Professor Emerita, 2008 Women’s Studies
Alice M. Brekke (1978) Professor Emerita, 1991 English
Alexander L. Britton (1956) Professor Emeritus, 1960 Educational Psychology
Robert J. Brophy (1968) Professor Emeritus, 1993 English
Ruth M. Bryan (1962) Assistant Fine Arts Librarian Emerita, 1977
Steven M. Buck (1961) Professor Emeritus, 1990 Speech Communication
Pamela A. Bunto (1987) Professor Emerita, 2008 Anthropology, Linguistics
R. Burdett Burck (1954) Professor Emeritus, 1975 Elementary Education
Ellia G. Barnett (1997) Professor Emerita, 2008 Teacher Education
Roland E. Bush (1958) Professor Emeritus, 2005 Comparative World Literature and Classics
Guy H. Cain, Jr. (1956) Associate Professor Emeritus, 1980 Electrical Engineering
Daniel A. Campbell (1962) Professor Emeritus, 1990 Physical Education
Filemon C. Campo-Flores (1972) Professor Emeritus, 1996 Management Human Resources Management
Harold L. Cannon (1968) Professor Emeritus, 2002 Romance, German, Russian Languages and Literatures
Richard E. Cantey (1972) Psychologist Emeritus, 2003 Counseling and Psychological Services
David Carlsberg (1966) Professor Emeritus, 1999 Biological Sciences
Earl R. Carlson (1961) Professor Emeritus, 1990 Psychology
Joan Marie Casey (1987) Professor Emerita, 2003 Teacher Education
Robert W. Cash (1976) Professor Emeritus, 1995 Educational Psychology and Administration
Ottis L. Castleberry (1956) Professor Emeritus, 1983 Speech Communication
Augustus Celillo Jr. (1967) Professor Emeritus, 2000 History
Kwan M. Chin (1963) Professor Emeritus, 1998 Geological Sciences
Michael D. Chaso (1983) Professor Emeritus, 2005 Accountancy
Sudersh M. Chawla (1962) Professor Emeritus, 1997 Political Science

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Chanduri V. Chelapati (1985) Professor Emeritus, 1996
Civil Engineering

Physics and Astronomy

Hsin-Ling Chu (1972) Professor Emeritus, 2006
Civil Engineering and Construction Engineering Management

David C. Church (1968) Associate Professor Emeritus, 1996
Industrial Education

Cheryl Clark (1969) Associate Professor Emerita, 2000
Philosophy

Patricia J. Clark (1990) Professor Emerita, 2002
Art

Marguerite A. Clifton (1978) Professor Emerita, 1987
Physical Education


Joan Cobb (1973) Professor Emerita, 1988
Nursing

James E. Cockrum (1955) Professor Emeritus, 1978
Institutional Media

Floyd A. Cohen (1985) Professor Emeritus, 1982
Mathematics

Ira G. Cohen (1950) Professor Emeritus, 1963
Political Science

Economics

Charles T. Collins (1968) Professor Emeritus, 2001
Biology and Biological Sciences

History

Keith R. Comman (1976) Professor Emeritus, 2004
Psychology

Physical Education

Michael E. Cosner (1971) Professor Emeritus, 2004
Psychology

Jean L. Conroy (1961) Associate Professor Emerita, 1994
Mathematics

Art

August E. Coppola (1969) Professor Emeritus, 2002
Comparative Literature and Classics

Peter A. Cortese (1973) Associate Dean, Professor Emeritus, 1991
School of Applied Arts and Sciences, Health Science

Samuel G. Councilman (1968) Professor Emeritus, 2004
Mathematics and Statistics

Peter A. Cowan (1981) Professor Emeritus, 2004
Civil Engineering and Construction Engineering Management

Carole Cox (1968) Professor Emeritus, 2006
Teacher Education

Diane G. Craven (1967) Associate Professor Emeritus, 1996
Communicative Disorders

Walter B. Crawford (1903) Professor Emeritus, 1985
English

Lyle R. Creamer (1962) Professor Emeritus, 1992
Psychology

Clyde A. Crepo (1983) Director Emeritus, 2005
Counseling and Psychological Services

Robert D. Crossan (1955) Professor Emeritus, 1965
Educational Psychology and Administration

Simona J. Crowther (1968) Professor Emeritus, 2003
Economics

Wendy A. Cuiotto (1973) Librarian Emerita, 2004

Larry G. Curtis (1965) Professor Emeritus, 1994
Music

Sandra J. Cyner (1986) Professor Emerita, 2005
Computer Engineering and Computer Science

Murray D. Dailey (1966) Professor Emeritus, 1992
Biological Sciences

Donald L. Dame (1965) Professor Emeritus, 1992
Art

Richard Daray (1965) Professor Emeritus, 2005
American Indian Studies

Barry M. Dank (1968) Professor Emeritus, 2000
Sociology

Mechanical and Aerospace Engineering

Electrical Engineering

English

C. Thomas Dean (1952) Dean, Professor Emeritus, 1988
School of Applied Arts and Sciences, Industrial Education

Dorothy Deatherage (1955) Professor Emerita, 1990
Physical Education

Kee K. DeBoer (1977) Librarian Emerita, 1992

Molly Debating (1972) Professor Emerita, 1997
Geography

Health Science and Gerontology

Doris C. DeHardt (1961) Professor Emerita, 1988
Psychology

John de Heras (1967) Professor Emeritus, 1997
Art

Beverly DeLong-Tonelli (1986) Professor Emerita, 1993
Romance, German, Russian Languages and Literature

Robert L. Delorme (1968) Professor Emeritus, 1994
Political Science

Zohrab Demirjian (1979) Professor Emeritus, 2005
Marketing

George D. Demos (1962) Professor Emeritus, 1983
Educational Psychology

Mechanical and Aerospace Engineering

Robert J. DeVoe (1969) Associate Professor Emeritus, 1992
Management/Human Resources Management

Chemistry and Biochemistry

Finance, Real Estate, and Law

Orvel L. Dillenhour (1955) Professor Emeritus, 1982
Art

Home Economics

Keith A. Dixon (1958) Professor Emeritus, 1992
Anthropology


Information Systems

University Library

Stacey E. Dukes (1964) Associate Professor Emerita, 1988
Design

Economics

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Anthropology
Kenneth M. Gregory (1973) Professor Emeritus, 2001
Biological Sciences
Women's Studies
Betty Rose Griffith (1968) Professor Emerita, 1988
Physical Education
Dixie A. Grimmell (1965) Professor Emerita, 2006
Kinesiology
Calvin D. Gross (1962) Professor Emeritus, 1992
Art
Physics and Astronomy
Mechanical and Aerospace Engineering
Health Science
Philosophy
Nezih Gunal (1989) Assistant Professor Emeritus, 2005
Civil Engineering and Construction Engineering Management
Information Systems
Albert F. Gumma (1957) Professor Emeritus, 2001
History
Seratina Q. Gunter (1964) Professor Emerita, 1980
Accounting
Elaine J. Haglund (1972) Professor Emerita, 2004
Educational Psychology, Administration, and Counseling
Judith A. Hall (1972) Professor Emerita, 2008
Criminal Justice
Kathleen J. Hallberg (1988) Associate Professor Emerita, 2001
Recreation and Leisure Studies
Thomas E. Hall (1981) Professor Emeritus, 2005
Art
Michael J. Hallwell (1968) Professor Emeritus, 2004
Sociology
Charles D. Hamburger (1965) Professor Emeritus, 1996
Management/Human Resources Management
Artene D. Hamilton (1966) Associate Professor Emerita, 1983
Home Economics
Eric L. Hanson (1989) Associate Professor Emeritus, 2007
Management/Human Resources Management
Raphael M. Hanson (1961) Professor Emeritus, 1986
Psychology
Forrest E. Harding (1971) Professor Emeritus, 2000
Marketing
Charles V. Harlow (1968) Professor Emeritus, 1994
Finance, Real Estate and Law
Sociology
Anthropology
Allice M. Harris (1966) Professor Emerita, 1998
Educational Psychology, Administration, and Counseling
Edwin R. Harris (1959) Professor Emeritus, 1997
Chemistry and Biochemistry
Psychology
Computer Engineering and Computer Science
Luster E. Hauth (1964) Professor Emeritus, 1992
Speech Communication
Political Science
John L. Healy (1956) Associate Professor Emeritus, 1983
Speech Communication
Jack Heeger (1960) Associate Professor Emeritus, 1992
Journalism
Stephen S. Heineman (1968) Professor Emeritus, 1992
Engineering Technology
Stanford M. Helm (1954) Professor Emeritus, 1977
Music
Don Hennessen (1952) Assistant Humanities Librarian Emeritus, 1976
John A. Hermann (1955) Professor Emeritus, 1982
English
Management/Human Resources Management
Truman G. Hickerson, Jr. (1965) Professor Emeritus, 1992
Accountancy
John E. Higgins (1964) Professor Emeritus, 1980
History
Lloyd R. Hiie (1968) Professor Emeritus, 2004
Chemical Engineering
English
Howard G. Hitchcock (1958) Professor Emeritus, 1990
Art
Ju-Chih Yang Ho (1979) Professor Emeritus, 1999
Biological Sciences
Joan C. Hoff-Templeton (1957) Professor Emerita, 1994
Design and Gerontology
Marketing
Trustee Professor Political Science
Advanced Studies in Education and Counseling
Adriare L. Houde (1965) Professor Emeritus, 1985
Electrical Engineering
Everett H. Hruby (1957) Professor Emeritus, 1988
Biological Sciences
Cheng-Yu Yang Hu (1963) Professor Emerita, 2005
Physics and Astronomy
Harold G. Hubbard (1979) Professor Emeritus, 1999
Sociology
Carol A. Hunter (1959) Professor Emeritus, 1993
Educational Psychology and Administration
Health Care Administration
Ralph B. Hupka (1969) Professor Emeritus, 2005
Psychology
Lloyd T. Inui (1965) Professor Emeritus, 1992
Asian and Asian American Studies
Tomotaka Ishinomi (1967) Professor Emeritus, 2006
Economics
Cathern M. Irwin (1961) Associate Professor Emerita, 1983
Health Science
Carol A. Itatani (1975) Professor Emerita, 2006
Biological Sciences

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Art
Chester R. Kyle (1959) Professor Emeritus, 1984
Mechanical Engineering
Hans Lampel (1965) Professor Emeritus, 1983
Music
H. John Lane (1963) Professor Emeritus, 1999
Computer Engineering and Computer Science
Mary J. Lass (1966) Professor Emerita, 1994
Teacher Education
Ann Lathrop (1969) Professor Emerita, 1999
Educational Psychology, Administration, and Counseling
Donald P. Lauter (1965) Professor Emeritus, 2002
Occupational Studies
Irvin T. Lathrop (1930) Professor Emeritus, 1968
Industrial Education
Arthur C. Lauffer (1957) Professor Emeritus, 1983
Management/Human Resources Management
English
Joseph A. Lee (1968) Associate Professor Emeritus, 1997
College of Education
Dorothy Leach (1968) Counselor Emerita, 1987
Mary Ellen Leach (1968) Associate Professor Emerita, 2002
Kinesiology and Physical Education
Isaiah C. Lee (1972) Professor Emeritus, 1997
Social Work
Design
Sociology
Mary Jane Leland (1959) Professor Emerita, 1986
Art
Chemical Engineering
Lawrence S. Lerner (1969) Professor Emeritus, 1990
Physics and Astronomy
College of Business Administration
Rodney C. Lewis (1958) Professor Emeritus, 1973
Electrical Engineering
San Pao Li (1976) Professor Emeritus, 2001
Asian and Asian American Studies
Dorothy Libby (1967) Associate Professor Emerita, 1988
Anthropology
Art
Van T. Lieu (1967) Professor Emeritus, 1996
Chemistry and Biochemistry
English
John R. Lincoln (1968) Professor Emeritus, 1994
Art
Psychology
Psychology
Alexander Lipski (1968) Professor Emeritus, 1984
History, Religious Studies
Gerald L. Locklin (1965) Professor Emeritus, 2003
English
Chemistry and Biochemistry
Donna Longstreet (1968) Senior Assistant Librarian Emerita, 1991
Chicano Latino Studies
Eileen E. Lothamer (1966) Professor Emerita, 1968
English
Alan S. Lowenthal (1969) Professor Emeritus, 2004
Psychology
Kai Un Lu (1968) Professor Emeritus, 2000
Mathematics
Physics and Astronomy
Walter J. Lycke (1957) Associate Professor Emeritus, 1974
Mathematics
M. Joan Lyon (1958) Professor Emerita, 1952
Physical Education
B. David Mason (1957) Associate Professor Emeritus, 1996
Industrial Education
Dan L. Madison (1953) Associate Professor Emeritus, 2000
Management/Human Resources Management
Mechanical and Aerospace Engineering
Carl Maltz (1986) Professor Emeritus, 2002
Computer Engineering and Computer Science
Peter Manarino (1964) Softball Head Coach Emeritus, 2007
Athletics
Journalism
Shirley Mangini (1967) Professor Emerita, 2004
Romance, German, Russian Languages and Literatures
Mathematics and Computer Science
Greayer Mansfield-Jones (1962) Professor Emeritus, 1992
Biological Sciences
Chemistry and Biochemistry
Richard F. Mersit (1958) Associate Professor Emeritus, 2000
Teacher Education
Political Science
Howard S. Martin (1965) Professor Emeritus, 1991
Radio, Television and Film
John M. Martin (1955) Professor Emeritus, 1982
Art
Frederic J. Maslack (1964) Professor Emeritus, 1989
English
Phyllis F. Maslow (1975 Professor Emerita, 1990
Educational Psychology and Administration
Charles F. Mason (1964) Professor Emeritus, 1979
Psychology
George E. Massey (1959) Professor Emeritus, 1983
Philosophy
Joseph A. Mastropaulo (1968) Professor Emeritus, 1994
Physical Education
Music
Biological Sciences
CSU, Long Beach

Professor Emeritus, 2005, Educational Psychology, Administration, and Counseling

English/Liberal Studies

Kenneth E. Maxwell (1963) Professor Emeritus, 1973
Biological Sciences

English

M. Adrienne Mayberry (1975) Professor Emerita, 1998
Nursing


Finance, Real Estate and Law

Gloria McCullough May (1985) Professor Emerita, 1992
English

Saundra McMillon (1972) Professor Emerita, 2001
Film and Electronic Arts

Chemistry

R. Clyde McCona (1961) Professor Emeritus, 1980
Anthropology

Physical Education

Thomas A. McCullough (1966) Professor Emeritus, 2001
Mathematics

John M. McFaul (1963) Professor Emeritus, 1988
History

Philosophy

Edward B. McLeod, Jr. (1965) Professor Emeritus, 1986
Mathematics and Computer Science

Flora Meisenheimer (1973) Associate Professor Emerita, 1991
Nursing

Peter J. Mondoz (1978) Associate Professor Emeritus, 2001
Art

Maxine O. Merlino (1952) Professor Emerita, 1975
Art

Larry L. Meyer (1978) Professor Emeritus, 1992
Journalism

Alan C. Miller (1974) Professor Emeritus, 2005
Biological Sciences

Mechanical Engineering

Harold T. Miller (1958) Associate Professor Emeritus, 1971
Civil Engineering

John Minier (1968) Professor Emeritus, 1989
Recreation and Leisure Studies

Leslie B. Mittelman (1957) Professor Emeritus, 1998
English

Atira Miyazaki (1960) Associate Professor Emerita, 2003
Asian and Asian American Studies

Genevieve M. Monahan (1988) Associate Professor Emeritus, 2005
Nursing

Management and Human Resources Management

Tom D. Morgan (1967) Professor Emeritus, 1995
Physical Education

Walter H. Moore Jr. (1979) Professor Emeritus, 2004
Communicative Disorders

Frank S. Morris (1959) Associate Professor Emeritus, 1992
Teacher Education

Physical Therapy

M. Gamal Mostafa (1968) Professor Emeritus, 1987
Civil Engineering

Dieter Muller-Stach (1968) Professor Emeritus, 1998
Art

Mullins, Ruth G. (1973) Professor Emerita, 2005
Nursing

Physics and Astronomy

Everett E. Murdock (1968) Professor Emeritus, 1998
Educational Psychology, Administration, and Counseling

Julien Musafia (1959) Professor Emeritus, 1983
Music

Charles L. Myers (1956) Professor Emeritus, 1986
Teacher Education

Teacher Education

Information Systems

English

School of Education, Educational Psychology and Administration

Teacher Education

Accountancy

Industrial Education

Jerome A. Nicholson (1968) Associate Professor Emeritus, 1988
Physical Therapy

Alan T. Nishio (1972) Associate Vice President Emeritus, 2006
Student Services

Vicente N. Noble (1974) Professor Emeritus, 2004
Educational Psychology, Administration, and Counseling

Frank Noffke (1964) Counselor Emeritus, 1981

Susan G. Nummelin (1972) Professor Emerita, 2002
Psychology

John E. Nygaard (1963) Professor Emeritus, 1999
Psychology

Mechanical and Aerospace Engineering

Teacher Education

Hazel A. Oliver (1960) Senior Assistant Librarian Emerita, 1980

Nancy Rainville Oliver (1988) Associate Professor Emerita, 2006
Nursing

R. Warner Olsen, Jr. (1960) Senior Assistant Librarian Emeritus, 1992

Douglas H. Orgill (1951) Professor Emeritus, 1983
English

Russel E. Orgel (1958) Professor Emeritus, 1992
Educational Psychology and Administration

Elizabeth T. Ortiz (1983) Professor Emerita, 2001
Social Work
Speech Communication

Melchior D. Powell (1973) Professor Emeritus, 1992
Public Policy and Administration

Yoko S. Puavat (1972) Professor Emeritus, 2002
Asian and Asian American Studies

Philosophy

Elisabeth M. Quillen (1964) Professor Emerita, 1985
French-Italian

Management/Human Resources Management

Louis E. Quinn (1965) Associate Professor Emeritus, 1992
Technology Education

Home Economics

Amon Rahi (1970) Associate Professor Emeritus, 2004
Black Studies

Walter J. Rainie (1968) Professor Emeritus, 1983
Psychology

Dennis G. Rainey (1956) Professor Emeritus, 1988
Biological Sciences

J. David Ramirez (1993) Professor Emeritus, 2004
Educational Psychology, Administration, and Counseling/Teacher Education

Art

Clarke G. Raynor (1957) Professor Emerita, 1986
Music

Electrical Engineering

Don F. Reed (1957) Associate Professor Emeritus, 1980
Physical Education

Jo A. Redmon (1964) Professor Emerita, 1997
Kinesiology and Physical Education

Donald J. Reinh (1958) Professor Emeritus, 1988
Biological Sciences

Occupational Studies


Fen Rhodes (1967) Professor Emeritus, 2000
Psychology

Susan Rice-Quint (1987) Professor Emerita, 2005
Social Work

Hans P. Riddler (1964) Associate Professor Emeritus, 1991
Political Science

Science Education

Physics and Astronomy

Nursing

Black Studies

Mechanical and Aerospace Engineering

Johannes W. Roden (1902) Professor Emerita, 1951
German and Russian

Home Economics
Fred Rogers (1959) Associate Professor Emeritus, 1992
Speech Communication
Economics
Alice W. Ross (1951) Professor Emerita, 1974
English
Music
Ruth A. Ross (1986) Associate Professor Emerita, 1998
Public Policy and Administration
Stephen B. Ross (1963) Professor Emeritus, 1999
Linguistics
Robert D. Routh (1967) Professor Emeritus, 1983
Industrial Education
Kenneth W. Rugg (1964) Professor Emeritus, 1989
Theatre Arts
Finance
George E. Rush (1973) Professor Emeritus, 2002
Criminal Justice
Ruth L. Russell (1963) Professor Emeritus, 1994
Biological Sciences
Anthropology
Bruce Ryan (1976) Professor Emeritus, 1997
Communicative Disorders
Industrial Education
Eva Sakamoto (1967) Assistant Professor Emerita, 1982
Nursing
Physics and Astronomy
David N. Samuelson (1966) Professor Emeritus, 2002
English
Federico A. Sanchez (1969) Professor Emeritus, 1999
Chicano Latino Studies
Charles R. Sandofer (1964) Professor Emeritus, 2000
Kinesiology and Physical Education
William P. Sater (1967) Professor Emeritus, 1995
History
Janet B. Sawyer (1957) Professor Emerita, 1986
English
Industrial Education
Paul C. Schmidt (1968) Associate Professor Emeritus, 2004
Political Science
Political Science
Division of Student Services
Spanish/Portuguese
Teacher Education
Physics and Astronomy
James W. Schultz (1963) Associate Professor Emeritus, 1980
Physical Education
English
Donald Schwartz (1987) Professor Emeritus, 2005
History
Mathematics
Computer Engineering and Computer Science
Bruce L. Scott (1965) Professor Emeritus, 1996
Physics and Astronomy
Joseph F. Seewerker (1967) Professor Emeritus, 1992
Computer Engineering and Computer Science
Elbert W. Segelhoest (1964) Professor Emeritus, 1992
Economics
Nail M. Senezian (1968) Professor Emeritus, 2002
Chemistry and Biochemistry
Thomas M. Serrett (1962) Assistant Librarian Emeritus, 1980
Norman E. Sexauer (1967) Professor Emeritus, 1992
Mathematics
John W. Shainline (1966) Vice President for Student Services Emeritus, 1990
Danoz
Art
Public Policy and Administration
Physics and Astronomy
Accountancy
Gail Shoup (1969) Professor Emeritus, 1969
Theatre Arts
Martha A. Siegel (1975) Professor Emerita, 1994
Nursing
Sharon L. Sievers (1968) Professor Emerita, 2006
History
Robert M. Simmons (1950) Professor Emeritus, 1993
Management/Human Resources Management
Economics
Sidney B. Sims, Jr. (1960) Senior Assistant Librarian Emeritus, 1994
University Library
Loretta P. Sinclair (1966) Assistant Librarian Emerita, 1991
University Library
Kinesiology and Physical Education
Theatre Arts
A. Keith Skarsten (1956) Professor Emeritus, 1982
English
Iva L. Skow (1972) Professor Emeritus, 1998
Economics
Sociology
Elbert L. Sleeper (1957) Professor Emeritus, 1992
Biological Sciences
Alton H. Smith (1957) Professor Emeritus, 1992
Mathematics
Donald H. Smith (1960) Professor Emeritus, 1986
Industrial Education
Earl M. Smith (1968) Professor Emeritus, 1991
Technology Education

Peggy J. Smith (1968) Professor Emerita, 1992
Sociology

Robert J. Smith (1965) Professor Emeritus, 1992
Management/Human Resources Management

Sara W. Smith (1969) Professor Emerita, 2004
Psychology/Linguistics

University Library

John C. Snider (1969) Professor Emeritus, 2005
Art

Communicative Disorders

Political Science

George A. Spangler (1971) Professor Emeritus, 2004
Philosophy

Colleen Spinks (1978) Professor Emerita, 1997
Nursing

Doris S. Spotsch (1985) Head, Humanities Librarian Emerita, 1973

English

Marketing

Geography

History

Raymond T. Stafard (1971) Professor Emeritus, 2004
Electrical Engineering

Journalism

Charles E. Stoller (1967) Professor Emeritus, 1992
English

A. Jay Stevens (1968) Professor Emeritus, 2002
Political Science

Thomas G. Stevens (1973) Psychologist Emeritus, 2004
Counseling and Psychological Services

Information Systems

Harry E. Stiver, Jr. (1964) Professor Emeritus, 1983
Theatre Arts

Lavonne L. Stock (1959) Professor Emerita, 1969
Physical Education

Herbert Stone (1956) Professor Emeritus, 1995
Management/Human Resources Management

Robert E. Strain (1958) Professor Emeritus, 1976
Economics

History

Vivian M. Sucher (1962) Professor Emerita, 1985
Nursing and Gerontology

Roy A. Sugimomo (1960) Associate Professor Emeritus, 1988
Teacher Education

English

Sabri Sumnu (1961) Professor Emeritus, 1983
Mechanical Engineering

Robert J. Swan (1964) Professor Emeritus, 1986
Educational Psychology and Administration

Frank E. Swatek (1956) Professor Emeritus, 1992
Biological Sciences

Frederick M. Swenson (1961) Professor Emeritus, 1990
French/Italian

Art

Mary Christine Talmadge (1993) Professor Emerita, 2001
Nursing

Philosophy

Norma Bernstein Tarrow (1963) Professor Emerita, 1997
Teacher Education

Management/Human Resources Management

Finance, Real Estate and Law

A. G. Thrapp (1959) Professor Emeritus, 1987
Chemistry

Psychology


Lindsay Thomas, Jr. (1961) Professor Emeritus, 1992
French and Italian

Art

Accountancy

F. Alan Timmons (1954) Professor Emeritus, 1980
Instructional Media

Djcro T. Tjo (1970) Associate Professor Emeritus, 2000
Biological Sciences

Family and Consumer Sciences

Kinesiology and Physical Education

Bruce J. Torby (1951) Professor Emeritus, 2000
Mechanical Engineering

John A. Tomoy, III (1957) Professor Emeritus, 1996
Health Science

Leonard Torres (1956) Professor Emeritus, 1988
Industrial Education

William J. Traynor (1973) Professor Emeritus, 1992
Management/Human Resources Management

Thomas Trombetta (1961) Professor Emeritus, 1989
Political Science

Technology Education

Chemical Engineering

Ching H. Tsao (1965) Professor Emeritus, 1986
Mechanical Engineering

Health Care Administration

Efrain Turban (1991) Professor Emerita, 1999
Information Systems

Sociology

M. Barbara Turner (1966) Professor Emerita, 1999
Mathematics

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Faculty

Abubakr, Rabie (2005) ........................................ Assistant Professor
Anthropology
B.A., Babat College, Wajir, M.A., Ohio State University, Ph.D., George Washington University

Abrams, David J. (1989) ........................................ Professor
Management Information Resources Management
B.A., University of California, Santa Cruz, M.A., Ph.D., University of Michigan.

Abrams, Jessica (2006) ........................................ Assistant Professor
Communication Studies
B.A., M.A., California State University, Long Beach, Ph.D., University of California, Santa Barbara.

Acey, Roger A. (1983) ........................................ Professor
Chemistry and Biochemistry
B.S., Ph.D., Wayne State University

Accosta-Orozco, Veronica M. (1996) ......................... Professor
Health Science
B.S., St. Louis University, Ph.D., University of Wisconsin, Madison.

Adams, Stephen T. (2000) ........................................ Assistant Professor
Advanced Studies in Education and Counseling
B.A., University College, M.A., University of California, Berkeley.

Ahrens, Courtney E. (2003) ........................................ Assistant Professor
Psychology
B.S., Arizona State University, M.A., University of Wisconsin, Madison.

Alexander, P. King (2006) ........................................ President
California State University, Long Beach

Alexander, P. King (2006) ........................................ Professor
Advanced Studies in Education and Counseling
B.A., St. Lawrence University, M.S., University of Oxford, Ph.D., University of Wisconsin-Madison.

Allen, Bengt (2007) ........................................ Assistant Professor
Biological Sciences
B.A., Pomona College, M.S., San Diego State University, Ph.D., Stony Brook University.

Allen, Teresita (2009) ........................................ Director
Faculty Center for Professional Development

Allen, Teresita (2009) ........................................ Professor
Communication Studies
B.A., Louisiana Technical University, M.A., Louisiana State University, Baton Rouge.

Amirkhan, James H. (1988) ........................................ Professor
Psychology
B.A., Reed College, M.A., California State University, Northridge, Ph.D., University of California, Los Angeles.

Ammerman, Peter A. (1990) ........................................ Associate Professor
Finance
B.S.A., Pace University, M.B.A., Virginia Polytechnic Institute and State University, Ph.D., Virginia Polytechnic Institute and State University.

Amouzegar, Mehryar A. (2005) ........................................ Associate Dean
College of Engineering

Amouzegar, Mehryar A. (2005) ........................................ Professor
Department of Electrical Engineering
B.S., San Francisco State University, M.S., Ph.D., University of California, Los Angeles.

An, Shuhua (2008) ........................................ Assistant Professor
Teacher Education
B.A., Nanjing Normal University, Nanjing, China, M.A., Texas A&M International University, Ph.D., Texas A&M University.

Andersen, Leslie N. (2002) ........................................ Librarian
University Library
B.M., University of Southern California, M.M., M.I.S., The Florida State University, Tallahassee.

Anderson, John (2006) ........................................ Assistant Professor
Film and Electronic Arts
B.A., M.A., Cornell University

Anglin, David I. (2005) ........................................ Assistant Professor
Music
B.A., San Francisco Conservatory of Music, M.A., University of California, Los Angeles, Ph.D., University of Southern California.

Anglin, Judith C. (2008) ........................................ Assistant Professor
Family and Consumer Sciences
B.S., M.S., Ph.D., Howard University

Anjo, Dennis M. (1994) ........................................ Professor
Chemistry and Biochemistry
B.A., M.S., San Francisco State University, Ph.D., Arizona State University, Tempe.

Anwar, Mohammad Z. (1965) ........................................ Professor
Psychology and Sociology
B.S., M.S., Deakin University, Ph.D., University of British Columbia.

Archie, James W. (1989) ........................................ Professor
Biological Sciences
B.S., M.S., State University of New York, Stony Brook.

Arciniega, Ferdinand A. (2005) ........................................ Staff Psychologist
Counseling and Psychological Services
B.A., California State University, M.A., New York University, Ph.D., University of Southern California.

Armstrong, Greg (1986) ........................................ Librarian
B.A., M.A., California State University, Chico; M.A.L.S., University of Wisconsin.

Armstrong, Keitra L. (2003) ........................................ Professor
Kinesiology
B.S., M.A., Missouri State University, Ph.D., Ohio State University.

Arnold, Joshua A. (1996) ........................................ Professor
Management and Human Resources Management
B.A., Point Loma Nazarene College, M.A., University of Illinois at Urbana-Champaign.

Arora, Tina (2008) ........................................ Assistant Professor
Advanced Studies in Education and Counseling
B.S., M.S., University of Madras, M.Ed., Kent State University, Ph.D., University of California, Los Angeles.

Arroyo, Gavin (2008) ........................................ Head Coach
Men's and Women's Water Polo

Athletics
B.S., University of California, Berkeley.

Arroyo, Luis L. (1995) ........................................ Professor
Chinese and Japanese Studies
B.A., M.A., University of California, Santa Barbara; Ph.D., University of California, Los Angeles.

Arroyo, Sarah J. (2003) ........................................ Professor
English
B.S., New Mexico State University, Las Cruces; M.A., California State University, Long Beach; Ph.D., University of Texas at Arlington.

Ary, James P. (1983) ........................................ Professor
Electrical Engineering
B.S., St. Mary's College, Calumet, Ph.D., Ohio State University.

Ascenas, Jennifer N. (2008) ........................................ Assistant Professor
Communication Studies
B.A., M.A., California State University, Long Beach; Ph.D., University of Texas, Austin.

Ashe, Pamela E. (1994) ........................................ Psychologist
Counseling and Psychological Services
B.A., California State University, Long Beach; M.A., California State University, Dominguez Hills; Ph.D., Iowa State University, Washington, D.C.

Asher, Abraham (2003) ........................................ Assistant Professor
Information Systems
B.A., California State University, Fullerton; M.S., University of Southern California; Ph.D., Claremont Graduate School.

Athey, John J. (1993) ........................................ Professor
Teacher Education
B.A., University of St. Thomas, Houston, M.A., Ph.D., University of Chicago, Chicago, USA.

Babcock, William A. (2001) ........................................ Professor
Environmental Studies
B.A., Principia College; M.A., The American University; Ph.D., Southern Illinois University at Carbondale.

Babe, Walter F. (2001) ........................................ Associate Professor
Public Policy and Administration
B.A., California State University, Long Beach; M.A., Ph.D., University of North Carolina at Chapel Hill.
Brazier, Christopher R. (2001) .......................... Associate Professor  
Chemistry and Biochemistry  
B.S., Ph.D., University of Southampton

Bremer, Carolyn R. (2003) .......................... Professor  
Music  
B.F.A., California Institute of the Arts; M.A., Ph.D., University of California, Santa Barbara.

Brevik, John (2006) .......................... Assistant Professor  
Mathematics and Statistics  
B.S., Michigan State University; M.S., University of Washington; Ph.D., University of California, Berkeley.

Briggs, Nancy E. (1979) .......................... Professor  
Communication Studies  
B.A., Arizona State University; South Dakota, M.A., Ph.D., University of Southern California; Emeritus, 2004.

Briggs, Ray A. (2003) .......................... Associate Professor  
Music  
B.A., University of Memphis; M.A., University of Florida; O.C., Ph.D., University of California, Los Angeles.

Brocato, John (2006) .......................... Assistant Professor  
Social Work  
B.A., M.S.W., Ph.D., Florida International.

Brooks, Catherine F. (2006) .......................... Assistant Professor  
Communication Studies  
B.A., California State University, Long Beach; Ph.D., University of California, Irvine.

Broughton, Jeffrey L. (1976) .......................... Professor  
Religious Studies  
B.A., MA, Ph.D., Columbia University.

Bruno-Brown, Carol (2006) .......................... Senior Assistant Librarian  
University Library  
B.S., M.A., University of Maryland; M.S., University of California, Los Angeles.

Brown, Eric (2007) .......................... Men's Basketball Assistant Coach  
Athletics  
B.A., California State University, Northridge.

Brown, Kendall H. (1999) .......................... Professor  
Art  
B.A., M.A., University of California, Berkeley; Ph.D., Yale University.

Brown, Lori (2007) .......................... Assistant Professor  
Interdepartmental Studies  
B.A., California State University, Long Beach; M.A., Ph.D., Northwestern University; Evanston, Illinois.

Brown, Stephanie V. (2003) .......................... Assistant Professor  
Human Development  
B.A., Pillar College; M.A., Ph.D., University of Texas, Austin.

Brusslan, Judith A. (1994) .......................... Professor  
Biological Sciences  
B.A., Medillotory College, Vermont; Ph.D., University of Chicago.

Bu, Xianhui (2003) .......................... Assistant Professor  
Chemistry and Biochemistry  
B.S., Fudan University, Shanghai; Ph.D., City College, Ph.D., State University of New York at Buffalo.

Bunting, Ianroba (2006) .......................... Associate Professor  
African Studies  
B.S., Loyola Marymount University; Ph.D., University of Wales.

Buonora, Paul T. (2006) .......................... Professor  
Chemistry and Biochemistry  
B.S., M.S., Indiana University of Pennsylvania; Ph.D., University of Virginia.

Burke, Althea D. (1987) .......................... Professor  
History  
B.M., American Conservatory of Music; B.A., M.A., Ph.D., University of Chicago.

Barnett, Ella A. (1997) .......................... Professor  
Teacher Education  
B.S., M.S., Pittsburg State University; Ed.D., University of California, Los Angeles; Emeritus, 2008.

Barnett, Raymond C. (2001) .......................... Associate Professor  
Journalism  
B.A., Ohio Wesleyan University; M.A., Ohio State University; M.A., George Washington University; Ph.D., Colorado State University; Fort Collins.

Bush, Roland E. (1969) .......................... Professor  
Comparative World Literature and Classics  
B.A., California State University, Long Beach; M.A., Ph.D., University of Southern California; Emeritus, 2000.

Byron, Andrew (2006) .......................... Associate Professor  
Art  

Byun, Linda H. (1964) .......................... Professor  
Mathematics and Statistics  
B.S., University of Hawaii; M.A., Ph.D., University of Wisconsin, Madison.

Callahan, Linda (2009) .......................... Professor  
Nursing  
B.S. Biology, California State, M.A., M.S., California State University, Long Beach; Ph.D., Florida State University.

Campbell, Carol A. (1989) .......................... Professor  
Sociology  
B.A., University of Alaska; Ph.D., University of Colorado.

Campbell, Joyce M. (1989) .......................... Professor  
Physical Therapy  
B.S., M.S., Ph.D., University of Southern California; Regulated Physical Therapist.

Canizales, Claudia (2007) .......................... Assistant Professor  
Advanced Studies in Education and Counseling  
B.A., University of California, Berkeley; M.A., Ph.D., University of San Francisco.

Caputi, Mary A. (1995) .......................... Associate Professor  
Political Science  
B.A., Cornell University; M.A., University of Chicago; Ph.D., Cornell University.

Carbuto, Michael N. (2001) .......................... Chief of Medical Staff  
Associate Director of Student Health Services  
Student Health Services  
B.S., New Mexico State University; M.P.H., University of Southern California; M.O., Western University.

Cargile, Aaron C. (1996) .......................... Professor  
Commencement Studies  
B.A., University of California, Santa Barbara; M.A., Purdue University; Ph.D., University of California, Santa Barbara.

Carré, Susan L. (2001) .......................... Associate Professor  
English  
B.A., University of California, Berkeley; M.A., University of San Francisco.

Carmichael, John A. (1996) .......................... Professor  
Music  
B.S., Duquesne University, Pittsburgh; M.A., University of San Francisco.

Carney, Michael R. (1991) .......................... Professor  
Music  
B.M., East Carolina University; M.M., Tarrant School of Music; D.M.A., North Texas State University.

Caron, Timothy P. (1998) .......................... Director  
Interdisciplinary Studies and University Honors Program  
English  
B.A., Louisiana College; M.A., Louisiana State University.

Carro, Christopher (2007) .......................... Associate Professor  
Intensive Systems  
B.S., University of Wisconsin; M.S., Ph.D., University of Minnesota, Twin Cities.

Carreira, Maria M. (1995) .......................... Professor  
Romance, German, Russian languages and Literature  
B.S., Loyola University Chicago; Ph.D., University of Illinois.

Carver, Ashley (2006) .......................... Assistant Professor  
Biology, General  
B.S., University of Wisconsin; M.S., Ph.D., Yale University.

Carver, Charles (1985) .......................... Professor  
Physical Therapy  
B.A., Babson College; M.A., University of Northern Iowa; Ph.D., University of Iowa; Emeritus, 2006.

Cawthorn, Jeanne Rolf (1981) .......................... Assistant Dean of Students  
Division of Student Services  
B.A., Scripps College; M.A. and Ph.D., Claremont Graduate School.

Cegles, Victor P. (2006) .......................... Director  
Athletics  
B.S., Bucknell University, Lewesburg, PA, M.A., Indiana University of Pennsylvania.

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Cooper, Stephen P. (1987) ................. Professor
English
B.A. University of California, Los Angeles; M.A., University of California, Irvine; Ph.D., University of Southern California.

Coots, Jennifer (1997) ..................... Professor
Advanced Studies in Education and Counseling
B.A., Occidental College; M.A., California State University, Los Angeles; Ph.D., University of California, Los Angeles; and California State University, Los Angeles.

Cormack, Jody G. (2003) .................... Associate Professor
Physical Therapy
B.S., California State University, Long Beach; M.S., Ph.D., University of Southern California.

Costa, D. Margaret (1974) .................. Professor
Kinesiology
B.S., M.Ed., University of Massachusetts, Ph.D., Ohio State University.

Couch, Victor (2007) ....................... Men’s Basketball Assistant Coach
Athletics
B.A., Santa Clara University, California.

Counselman, Samuel G. (1958) ............ Professor
Mathematics and Statistics

Cox, Carol (1958) .......................... Professor
Teacher Education
B.A., University of California, Los Angeles; M.A., Ph.D., University of Minnesota, Minneapolis, Emeritus, 2006.

Crass, Scott W. (2001) ...................... Associate Professor
Mathematics and Statistics
B.A., Evangel College; B.A., California State University, Long Beach; M.A., University of Notre Dame; Ph.D., University of California, San Diego.

Cresta, Domenic (1966) .................... Professor
Art

Crockett, Bryan (2007) ..................... Associate Professor
Art
B.F.A., Cooper Union, New York; M.F.A., Yale University, New Haven.

Croke, Ellen M. (1999) ..................... Assistant Professor
Nursing
B.S.N., Northeastern University; M.S.N., California State University, Long Beach; Ed.D., Pepperdine University.

Crosswayor, Jill A. (1998) ................. Assistant Professor
Kinesiology
B.S., Long Island University; M.S., University of Massachusetts; Ph.D., University of Oregon.

Cummings, Tanya R. (2009) ............... Associate Professor
Art
B.A., California State University, Long Beach; M.A., California State University, Fullerton.

Cummings, Chaillin (2008) ............... Visiting Professor
Management and Human Resource Management
B.A., Southern University U.S.S., M.S., University of Utah.

Curry, Denise (1995) .............. Women’s Basketball Assistant Coach
Athletics
B.A., University of California, Los Angeles; M.A., CSU Dominguez Hills.

Curtis, James R. (1995) ................... Professor
Occupancy
B.A., M.A., San Jose State University; Ph.D., University of California, Los Angeles.

Curtis, Kenneth R. (1990) ............... Assistant Vice President
International Education and Global Engagement

Dahlin, Rebecca D. (1986) ............... Associate Professor
Nursing
B.S.N., Los Angeles County Medical Center; B.S.N., University of Phoenix; M.S.N., California State University, Los Angeles.

Dallman, Suzanne (2007) .................. Assistant Professor
Geography
B.A., San Francisco Art Institute; M.A., California State University, Long Beach; Ph.D., University of California, Los Angeles.

Dansy, Richard (1985) ................... Professor
American Indian Studies
B.A., California State University, Northridge; M.A., California State University, Chico; M.A., University of California, Davis; Emeritus, 2005.

Das, Mihir K. (1981) ....................... Professor
Mechanical and Aeronautical Engineering
B.S., Indian Institute of Technology, India; Ph.D., University of Binghamton, Emeritus, 2005.

Daugherty, Emma L. (1997) ............... Professor
Journalism
B.S., West Virginia University; M.A., Michigan State University.

Davis, James A. (1985) ................... Professor
Kinesiology
B.A., M.A., San Diego State University; Ph.D., University of California, Davis.

Davis, Jeffrey P. (1997) ................... Assistant Professor
Sociology
B.A., M.A., North Carolina Central University, Ph.D., North Carolina State University.

Day, Linda A. (2002) ...................... Associate Professor
Arts

De Albuquerquen, Joon (2004) .......... Assistant Professor
Music
B.M., M.M., Michigan State University.

DeBo, Martha J. (1999) .................. Associate Professor
Graduate Center for Public Policy and Administration
B.S., University of San Francisco, M.A., San Francisco State University, Ph.D., Virginia Polytechnic Institute and State University.

DeGraffenreid, Linda J. (1990) .......... Professor
Mathematics and Statistics
B.A., Grand Canyon College, St. Louis; A.M., Stanford University; M.A., Ph.D., University of Georgia, Athens.

Deitch, Kathryn V. (1997) ............... Associate Professor
Nursing
B.S., University of Maryland; M.S., Texas Woman’s University; M.A., Claremont Graduate School.

Del Campo, Alicia (2000) ............... Associate Professor
Romance, German, Russian Languages and Literatures
M.A., University of Chile, Santiago, Chile; M.A., University of Minnesota, Minneapolis; Ph.D., University of California, Irvine.

Del Casino, Vincent J., Jr. (2008) ...... Associate Professor
Geography
B.A., Bucknell University; M.S., University of Wisconsin, Ph.D., University of Kentucky, Lexington.

Demirdjian, Zohrab (1979) .............. Professor
Marketing
B.S., M.B.A., Arizona State University; Ph.D., Louisiana State University, Emeritus, 2005.

Dennis, Christopher D. (1985) .......... Professor
Political Science
B.A., M.A., California State University, Long Beach; Ph.D., University of Georgia.

Dick, Wayne E. (1981) .................... Professor
Computer Engineering and Computer Science
B.A., M.A., Ph.D., University of California, San Diego.

Dieveney, Patrick (2007) ................ Assistant Professor
Philosophy
B.A., Carnegie College, Northfield, Minnesota; Ph.D., University of Arizona, Tucson.

Dillon, Jesse G. (2004) .................. Assistant Professor
Religious Studies
B.A., Maryland University, Middlebury, CT; Ph.D., University of Oregon, Eugene.

Ding, Yu (2006) .......................... Associate Professor
Mathematics and Statistics
B.A., Fu Jen University, China; M.A., Ph.D., New York University.

Dintillon, Gene L. (1968) ................. Professor
English
B.A., M.A., University of Connecticut.
Finney, Stanley C. (1956) ........................................... Professor
Biological Sciences
B.S., M.S., University of California, Riverside; Ph.D., Ohio State University.

Fiorio, Teresa (2003) ........................................... Associate Professor
Comparative World Literatures and Languages
B.A., University of Trieste, Italy; M.A., California State University, San Diego.

Fisher, Carl H. (2006) ........................................... Professor
Biological Sciences
B.S., Ohio State University, M.Ed., Ph.D., University of California, Los Angeles.

Fisher, Donna G. (2009) ........................................... Director
Center for Behavioral Research and Services

Fleming, Craig (2006) ........................................... Assistant Professor
Theatre Arts
M.F.A., California State University, Long Beach.

Fleming, Jennifer J. (2002) ........................................... Assistant Professor
Athletics
B.A., Simon Fraser University, Canada; M.A., University of Western Ontario.

Flowers, Taria (2007) ........................................... Softball Assistant Coach
Athletics
B.A., University of California, Los Angeles.

Forney, Kristine K. (1978) ........................................... Professor
Music
B.M., Southwestern Illinois College; M.S., University of Kentucky, Lexington.

Forouzesh, Mohammad R. (1987) ........................................... Professor
Health Sciences
B.S., University of Zanjan, Iran; M.P.H., University of California, Irvine; Ph.D., University of Tennessee, Knoxville.

Forrest, Laura U. (1990) ........................................... Associate Professor
Advanced Studies in Education and Counseling
B.A., M.C., Arizona State University.

Fox, Ragan (2006) ........................................... Assistant Professor
Communication Studies
B.S., M.A., University of Iowa, Austin; Ph.D., Arizona State University.

Fradella, Henry (2007) ........................................... Professor
Geological Sciences
B.A., Clark University, Worcester, Massachusetts; M.S., J.D., George Washington University, Ph.D., Arizona State University.

Frank, Gail C. (1969) ........................................... Professor
Family and Consumer Sciences
B.S., Texas Tech University; M.P.H., Tuskegee University.

Fratres, Janice E. (1997) ........................................... Professor
Health Care Administration
B.A., University of California, Los Angeles; M.S.W., University of California, Berkeley; Ph.D., University of Southern California.

Frear, Robert (2006) ........................................... Assistant Professor
Music
B.A., California State University, Long Beach; M.A., University of Southern California.

Freesmam, Keith W. (1979) ........................................... Associate Professor
Kinesiology
B.S., Upper Iowa University; M.A., University of Northern Iowa; Ed.D., University of Southern California.

Freshman, Brenda (2007) ........................................... Assistant Professor
Health Care Administration
B.S., University of California, Los Angeles; M.A., University of Southern California; Ph.D., Alliant International University.

Frey, Elaine F. (2008) ........................................... Assistant Professor
Economics
B.A., Salisbury University, M.A., Georgia Washington University.

Fried, Elliot (1970) ........................................... Professor
English

Frits, Robert H. (1988) ........................................... Professor
Health Sciences
A.B., University of California, Berkeley; A.M., Ph.D., Columbia University.

Fung, Henry C., Jr. (1996) ........................................... Associate Dean
College of Natural Sciences and Mathematics

Furnish, Edward (2003) ........................................... Associate Professor
Biological Sciences
B.S., University of California, Berkeley; M.T., University of California, Medical School at San Francisco; M.A., San Francisco State University; Ph.D., Washington State University.

Galag, Carmen B. (2004) ........................................... Assistant Professor
Nursing
B.S.N., M.S.N., San Diego State University, CA; D.N.Sc., University of San Diego, CA.

Galvan, Christine (2007) ........................................... Assistant Professor
Kinesiology
B.S., M.A., California State University, Los Angeles; Ph.D., University of Northern Colorado.

Gamble, Brandon (2007) ........................................... Assistant Professor
Advanced Studies in Education and Counseling
B.A., Oregon College, M.S., San Diego State University; Ph.D., University of Southern California.

Gao, Tangan (1999) ........................................... Associate Professor
Mathematics and Statistics
B.S., M.S., Hangzhou University, China; Ph.D., Michigan State University.

Garcia-Orozco, Antonia (2007) ........................................... Assistant Professor
Chicana/Latina Studies
B.A., M.A., California State University, Northridge; Ph.D., Claremont Graduate University.

Gardner, Don E. (2008) ........................................... Associate Vice President
Academic Affairs, Academic Technology
B.A., Utah State University, Ed.D., Indiana University.

Garhammer, John J. (1985) ........................................... Director
Movement Sciences Laboratories

Georgie, Larry N. (1989) ........................................... Professor
Arts
B.A., University of California, Irvine; M.A., Ph.D., Idaho State University.

Ghafouri, Bita (2005) ........................................... Associate Professor
Health Care Administration
B.S., University of California, Irvine; M.A., Pepperdine University, M.A., Ph.D., Alliant International University.

Gharakhani, Eshu (1990) ........................................... Professor
Biological Sciences
B.A., George Mason University; Ph.D., University of California, Los Angeles.

Gibson, J. William (1991) ........................................... Professor
Sociology
B.A., University of Texas, Austin; M.A., Ph.D., Yale University.
Gibson, Katie L. (2004) ........................................... Assistant Professor
Communication Studies
B.A., University of New York, Los Angeles, C.A.; M.A., California State University, Fullerton; Ph.D., Pennsylvania State University, University Park.

Gilmore, Paul D. (2002) ........................................... Associate Professor
English
B.A., University of Mississippi, Oxford, M.A., Ph.D., University of Chicago.

Gimmiarlo, Brian S. (1992) ........................................... Women's Volleyball Head Coach
Athletics
B.A., California State University, Long Beach.

Gillam, Arthur P. (1955) ........................................... Professor
Computer Engineering and Computer Science
B.S., M.A., Ph.D., University of California, Los Angeles.

Glatt, Lisa (2006) ........................................... Assistant Professor
English
B.A., California State University, Long Beach; M.A., Sarah Lawrence College.

Godfrey, Michael (1988) ........................................... Professor
Information Systems
B.A., Archivist College, M.A., Ph.D., University of Southern California; Columbia, 2000.

Goebel, Jay (2008) ........................................... Assistant Professor
Nursing
B.S., Kori State University, M.S., University of California, Los Angeles.

Gottum, Tofsal (1983) ........................................... Director
Center for Excellence In Construction

Goldstein, Avery E. (1959) ........................................... Associate Professor
Civil Engineering and Construction Engineering Management
B.S., National University, Illinois; B.S., University of Wisconsin; Seattle, M.S., Ph.D., Michigan State University.

Goldstein, Cheryl (2006) ........................................... Assistant Professor
Comparative World Literature and Classics
B.A., University of California, Los Angeles; M.A., University of the Pacific; Ph.D., Harvard University.

Goldstein, Dorin A. (2002) ........................................... Associate Professor
Political Science
B.A., University of Southern California; Berkeley, M.A., University of California, Berkeley; Ph.D., University of California, Berkeley.

Goldstein, Gers S. (2002) ........................................... Associate Professor
Computer Engineering and Computer Science
B.S., Electrical Engineering and Computer Science; Ph.D., University of California, Berkeley.

Goloz, Filip E. (1997) ........................................... Professor
Computer Engineering and Computer Science
B.S., Electrical Engineering and Computer Science; Ph.D., University of California, Berkeley.

Golzani, Foruzan (2007) ........................................... Dean
College of Engineering

Gole and Assistant to the Provost on Accessible Technology

Gonzalez, Joanne L. (1985) ........................................... Professor
Theatre Arts
B.A., M.A., University of Wisconsin; South Africa; Ph.D., University of California, Los Angeles.

Goos, Franklyn E. (1987) ........................................... Professor
Geography
B.A., University of Oregon; A.A., University of Oregon; Ph.D., University of California, Los Angeles.

Goos, Karen (2007) ........................................... Provost and Senior Vice President
Academic Affairs

Grace, Debra M. (2001) ........................................... Professor
Accounting
M.B.A., Ohio University; Ph.D., Ohio State University.

Grunow, Rosaline B. (1967) ........................................... Professor
Geological Sciences
B.A., University of California; Ph.D., University of California, Riverside.

Gray, Todd (1971) ........................................... Professor
Geological Sciences
B.S., University of California, Los Angeles; Ph.D., University of California, Los Angeles.

Green, Jack (1970) ........................................... Professor
Geological Sciences
B.S., University of California, Los Angeles; Ph.D., University of California, Los Angeles.

Green, Kenneth (1970) ........................................... Professor
Geological Sciences
B.S., California Polytechnic State University; M.S., Ph.D., University of California, Los Angeles.

Greenberg, Suzanne A. (1995) ........................................... Professor
Psychology
B.A., Brown University; M.S., Ph.D., University of Massachusetts.

Greenberg, Doreen (1969) ........................................... Professor
Psychology
B.S., California State University, Long Beach.

Greene, Gary M. (1993) ........................................... Professor
Advanced Studies in Education and Counseling
B.A., University of California, Los Angeles; M.A., University of Southern California; Ph.D., University of California, Riverside.

Green-Vargas, Debbie (1985) ........................................... Women's Volleyball Assistant Athletics

Grenn-Schegner, Margarita (1980) ........................................... Professor
Advanced Studies in Education and Counseling
B.A., University of California, Los Angeles; M.A., University of California, Los Angeles; M.A., California State University, Los Angeles.

Greef, Jennifer M. (1975) ........................................... Professor
Art
B.A., Bowdoin College, M.A., Hofstra School of Painting of the Maryland Institute.

G riffen, Karen (2007) ........................................... Senior Assistant Librarian
University Library
B.A., University of California, San Diego; M.S., California State University, Los Angeles; M.D., Clark University.

G riffen, Wendy (1991) ........................................... Professor
Women's Studies
B.A., M.A., Ph.D., University of California, Irvine.

Grilliot, Dixie A. (1965) ........................................... Interim Dean
College of Health and Human Services

Grimmelt, D. R. (1995) ........................................... Professor
B.S., Brigham Young University, M.A., Washington State University, E.D.D., Brigham Young University.

Griawold, W. Gary (2003) ........................................... Assistant Professor
English
B.A., M.A., California State University, Long Beach; Ph.D., Claremont Graduate University.

Grob, Lisa M. (1988) ........................................... Professor
Economics
B.A., M.A., Ph.D., University of Michigan, Ann Arbor.

Gu, Jie (2004) ........................................... Assistant Professor
Physics and Astronomy
B.S., M.S., Ph.D., Seoul National University, South Korea.

Gustafson, Justin (1989) ........................................... Assistant Professor
B.S., M.S., Ph.D., University of California, Los Angeles.

Gustafson, Sarah (1987) ........................................... Professor
Health Science
B.S., Medicine and Surgery, University of Southern California, Srl Lanka; M.P.H., University of Hawaii, Manoa; O.H.I., University of Hawaii, Manoa.

Guthrie, Sharon R. (1990) ........................................... Professor
Kinesiology
B.A., University of California, Los Angeles; B.A., M.A., California State University, Northridge; M.A., California State University, Long Beach; Ph.D., Ohio State University.

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<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>College/Educational Institution</th>
<th>City, State, Country</th>
</tr>
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<tbody>
<tr>
<td>Janssen, Marilith A. (1999)</td>
<td>Associate Professor</td>
<td>Room and Leisure Studies, B.S., California State University, Sacramento, M.A., California State University, Chico; E.D.D., Oklahoma State University.</td>
<td></td>
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<tr>
<td>Jarvis, Jeffrey (2005)</td>
<td>Assistant Professor</td>
<td>Music</td>
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<td>Jenks, Andrew (2006)</td>
<td>Assistant Professor</td>
<td>History</td>
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<td>Ji, Hongyu (1996)</td>
<td>Professor</td>
<td>Art</td>
<td></td>
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<td>Jimenez, Jilliam (1988)</td>
<td>Professor</td>
<td>Social Work</td>
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<td>Johnstone, Keith R. (1997)</td>
<td>Assistant Professor</td>
<td>Dance</td>
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<td>Johnson, Ann M. (2003)</td>
<td>Assistant Professor</td>
<td>Communication Studies</td>
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<td>Johnson, Keith R. (1997)</td>
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<td>Johnson, Thomas G. (1980)</td>
<td>Professor</td>
<td>Computer Engineering and Computer Science</td>
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<td>Johnson, William M. (1965)</td>
<td>Associate Professor</td>
<td>Philosophy</td>
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<td>Jones, F. Stanley (1988)</td>
<td>Professor</td>
<td>Journalism</td>
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<td>Jorgenson, Dale O. (1972)</td>
<td>Professor</td>
<td>Psychology</td>
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<td>Joshee, Jeet (2003)</td>
<td>Dean University College and Extension Services</td>
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<td>Jura, Jean-Jacques (2005)</td>
<td>Assistant Professor</td>
<td>Russian</td>
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<td>Kaminsky, Arnold P. (1965)</td>
<td>Director</td>
<td>Center for the Study of Southwest Asia</td>
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<tr>
<td>Kao, Hsin-Sheng C. (1986)</td>
<td>Professor</td>
<td>Asian and Asian American Studies</td>
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<td>Kac, Hsin-Sheng C. (1986)</td>
<td>Professor</td>
<td>Asian and Asian American Studies</td>
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<td>Kapco, Robert W. (1966)</td>
<td>Professor</td>
<td>Psychology</td>
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<td>Karonga, Mauama N. (1989)</td>
<td>Professor</td>
<td>ACLU</td>
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<td>Keiser, Patricia (1987)</td>
<td>Professor</td>
<td>Communication Studies</td>
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<td>Keely, Beth R. (1995)</td>
<td>Professor</td>
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<td>Kellerman, William L. (2001)</td>
<td>Associate Professor</td>
<td>Psychology</td>
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<td>Kelso, Kevin M. (1995)</td>
<td>Associate Professor</td>
<td>Biological Sciences</td>
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<td>Kelly, Kenneth T. (2001)</td>
<td>Director</td>
<td>Student Transition and Retention Services</td>
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<td>Kelly, Thomas K. (2003)</td>
<td>Assistant Professor</td>
<td>Geological Sciences</td>
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<td>Kernday, Elizabeth (2000)</td>
<td>Associate Professor</td>
<td>English</td>
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<td>Kernday, Elizabeth (2000)</td>
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<td>Ketola, Jarine (2006)</td>
<td>Assistant Professor</td>
<td>Information Systems</td>
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<td>Kheir, Abdalnacer (2006)</td>
<td>Professor</td>
<td>Biological Sciences</td>
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<td>Khoo, Mohammed B. (1984)</td>
<td>Professor</td>
<td>Information Systems</td>
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<td>Khuzita, Baiwant S. (1987)</td>
<td>Professor</td>
<td>Biological Sciences</td>
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<td>Last Name</td>
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<td>Year</td>
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<td>Lam</td>
<td>Brian T.</td>
<td>2003</td>
<td>Assistant Professor</td>
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<td>Swid</td>
<td>Shui F.</td>
<td>1985</td>
<td>Professor</td>
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<td>Landon</td>
<td>Lora R.</td>
<td>2005</td>
<td>Assistant Professor</td>
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<td>Lane</td>
<td>Brian A.</td>
<td>2002</td>
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<td>Laris</td>
<td>Paul S.</td>
<td>2002</td>
<td>Associate Professor</td>
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<td>Larson</td>
<td>Daniel O.</td>
<td>1998</td>
<td>Professor</td>
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<tr>
<td>Lascano</td>
<td>Marcy</td>
<td>2002</td>
<td>Assistant Professor</td>
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<tr>
<td>Lau</td>
<td>Beth</td>
<td>1990</td>
<td>Professor</td>
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<td>Lawry</td>
<td>Barry</td>
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<td>Associate Professor</td>
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<td>Le</td>
<td>Son V.</td>
<td>1986</td>
<td>Professor</td>
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<td>Lee</td>
<td>Cheryl D.</td>
<td>2000</td>
<td>Associate Professor</td>
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<td>Lee</td>
<td>Chia-Hsiu S.</td>
<td>1998</td>
<td>Professor Information Systems</td>
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<td>Lee</td>
<td>Christopher T.</td>
<td>2003</td>
<td>Professor Geography</td>
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<td>Lee</td>
<td>Chuang-ming</td>
<td>2007</td>
<td>Assistant Professor Mathematics and Statistics</td>
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<tr>
<td>Lee</td>
<td>Diane W.</td>
<td>1999</td>
<td>Associate Professor Psychology</td>
</tr>
<tr>
<td>Lee</td>
<td>Jacqueline D.</td>
<td>1988</td>
<td>Associate Professor Family and Consumer Sciences</td>
</tr>
<tr>
<td>Lee</td>
<td>Jonathan</td>
<td>2006</td>
<td>Associate Professor Marketing</td>
</tr>
<tr>
<td>Lee-Frauman</td>
<td>Kay K.</td>
<td>1999</td>
<td>Associate Professor Biological Sciences</td>
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<tr>
<td>Leifer</td>
<td>William M.</td>
<td>1996</td>
<td>Professor Natural Science</td>
</tr>
<tr>
<td>LeMastor</td>
<td>Barbar C.</td>
<td>1997</td>
<td>Professor Anthropology/Linguistics</td>
</tr>
<tr>
<td>Levine</td>
<td>Arthur M.</td>
<td>1974</td>
<td>Professor College of Business Administration</td>
</tr>
<tr>
<td>Lijana</td>
<td>Li</td>
<td>1998</td>
<td>Professor Chemistry and Geology</td>
</tr>
<tr>
<td>Li</td>
<td>Xin</td>
<td>2001</td>
<td>Professor Education, Teacher Education</td>
</tr>
<tr>
<td>Li</td>
<td>Xuehai</td>
<td>2007</td>
<td>Assistant Professor Linguistics</td>
</tr>
<tr>
<td>Li</td>
<td>Ying</td>
<td>2007</td>
<td>Assistant Professor Mathematics and Statistics</td>
</tr>
<tr>
<td>Lee</td>
<td>Christopher T.</td>
<td>2003</td>
<td>Assistant Professor Economics</td>
</tr>
<tr>
<td>Li</td>
<td>Ping</td>
<td>1999</td>
<td>Associate Professor Education, Teacher Education</td>
</tr>
<tr>
<td>Liu</td>
<td>Dar-Bian</td>
<td>1986</td>
<td>Professor Education, Teacher Education</td>
</tr>
<tr>
<td>Liu</td>
<td>Xuemei</td>
<td>2003</td>
<td>Assistant Professor Economics</td>
</tr>
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<td>Liu</td>
<td>Ying</td>
<td>2007</td>
<td>Assistant Professor Information Systems</td>
</tr>
<tr>
<td>Livingston</td>
<td>Brian T.</td>
<td>2008</td>
<td>Professor Biological Sciences</td>
</tr>
</tbody>
</table>

Total: 782 Faculty - 2009/2010 CSULB Catalog
Miyoshi, Klimko (2005) ........................................ Assistant Professor
Art
B.A., California State University, Long Beach; M.F.A., University of New Mexico

Mizelle, D. Brett (2001) ........................................... Associate Professor
History
B.A., Georgetown University; M.A., Ph.D., University of Minnesota

Mohamed, Olfat G. (1998) ........................................... Professor
Biomedical Engineering
B.S., M.S., Cairo University; Ph.D., University of Southern California

Mohamed-Nouri, Hassan I. (1988) .................................... Professor
Electrical Engineering
B.S., M.S., Naval University, Tehran; Ph.D., University of Southern California

Mohr, William (2006) ............................................. Assistant Professor
English
B.A., University of California, Los Angeles; M.A., Ph.D., University of California, San Diego

Momoa, Risto (2007) .............................................. Assistant Professor
Marketing
B.A., Selakanka Polytechnical, Finland; M.S., University of Southern Denmark; Ph.D., University of Minnesota

Molari, Alcius J. M. (1994) .......................................... Professor
Alliance College of Engineering
B.S., University of South Africa; M.S., University of North, Republic of South Africa

Monaco, Kristen (2001) ............................................ Professor
Economics
B.A., Michigan State University, M.A., Ph.D., University of Wisconsin, Milwaukee

Monat, Jonathan S. (1978) ......................................... Professor
Management and Human Resources Management
B.S., University of California, Los Angeles; M.S., San Diego State University; Ph.D., University of Minnesota, Minneapolis, St. Paul

Monge, Alvaro E. (1999) ........................................... Professor
Computer Engineering and Computer Science
B.S., University of California, Riverside; M.S., Ph.D., University of California, San Diego

Monson, Daniel (2007) ............................................ Men's Basketball Head Coach
Athletics
B.S., University of Notre Dame, M.A., University of Montana

Moon, Hojin (2007) ................................................... Associate Professor
Mathematics and Statistics
B.S., M.S., Yonsei University, Korea; Ph.D., Florida Institute of Technology; Ph.D., State University of New York, Stony Brook

Moores, William S. (2000) ........................................ Associate Professor
Graduate Center for Public Policy and Administration

Moreno, Jose F. (2004) .............................................. Associate Professor
Chilacano and Latin Studies
B.A., University of California, Irvine; M.Ed., Ed.D., Harvard University

Counseling and Psychological Services
B.A., Loyola Marymount University; M.A., Ph.D., California School of Professional Psychology

Morin, Kristen L. (2009) ............................................. Associate Professor
Art
B.A., California State University, Hayward; M.A., Ph.D., University of New York, New York

Morley, Harvey N. (1989) ........................................... Professor
Chemical Engineering
B.S., California State University, Northridge; M.S., Austin Peay State University; M.S., California State University, Northridge; Ph.D., University of Rochester

Mosher, Jerry (2006) ................................................... Assistant Professor
Film and Electronic Arts
B.A., M.A., University of California, Los Angeles

Moshaveri, Khosrow (1990) .......................................... Professor
Informatics Systems
B.S., Agra Male Technical University, Iran; M.S., Stanford University; Ph.D., University of California, Los Angeles

Mueller-Stosch, Johannes (2007) ................................. Assistant Professor
Music
B.M., Columbus State University, M.M., University of Cincinnati; DMA, University of Rochester

Mukherjee, Sayantani (2007) ..................................... Assistant Professor
Math
B.S., M.A., University of Calcutta, India; Ph.D., University of California, Irvine

Muller, Markus E. (2001) ......................................... Associate Professor
Romance, German, Russian Languages and Literature
B.A., University of Tübingen; M.A., University of Kansas; Ph.D., University of California, Los Angeles

Mulligan, William A. (1986) ...................................... Professor
Journalism
B.S., Briar Cliff College; M.S., T.S.C.T., Murray State University; Ph.D., University of Missouri, Columbia

Mulline, Ruth G. (1973) ............................................ Professor
Marketing
B.S.N., California State University, Long Beach; M.S.N., California State University, Los Angeles; Ph.D., Columbia Pacific University, Omak, Washington

Murdoch, Callie (2003) ............................................ Assistant Professor
History
B.A., Swarthmore College, PA; M.A., Emory University, Atlanta, GA; Ph.D., Stanford University

Murgolo, Frank D. (2003) ....................................... Professor
Computer Engineering and Computer Science
B.A., California State University, Fullerton; M.S., Ph.D., University of California, Irvine

Murphy, Lisa (2007) .................................................. Assistant Professor
Criminal Justice
B.S., M.A., Ph.D., University of California, Riverside

Murray, John (2007) .................................................. Professor
Advanced Studies in Education and Counseling
B.A., State University of New York, Binghamton; M.A., Arizona State University; Ed.S., Wright State University; Ph.D., Ohio State University

Murray, William L. (2001) ....................................... Associate Professor
Mathematics and Statistics
B.S., Courant Institute, New York University, California, Stanford

Myers, Michael P. (2002) ....................................... Assistant Professor
Chemistry and Biochemistry
B.A., Roberts Wesleyan College, Rochester, NY; M.S., Ph.D., University of Rochester

Nagai, Chihiro (2007) .............................................. Assistant Professor
Social Work
B.A., Seattle Pacific University; M.S.W., University of Washington, Ph.D., Smith College

Nakai, Karen Kawai (1999) Executive Assistant to the President
Office of the President

Nakayama, Katsunori (1987) ...................................... Associate Professor
Chemistry and Biochemistry
B.S., Ph.D., University of California, Los Angeles

Nayar, Ramaswami, Vasanth (2008) ................................ Assistant Professor
Chemistry and Biochemistry
B.S., University of Madras, India; M.S., University of Mysore, India; Ph.D., Indian Institute of Technology

Naas, Ulhami B. (2002) ............................................. Professor
Civil Engineering and Construction Engineering Management
B.S., M.S., California State University, Long Beach; Ph.D., University of Colorado

Nayak-Gueirio, Arminda (2006) .................................... Assistant Professor
Romance, German, Russian Languages and Literature
B.A., University of St. Ambrose, India; M.A., Ph.D., University of Pittsburgh

Neff, Hector (2003) .................................................. Professor
Anthropology
A.B., Stanford University, M.A., Ph.D., University of California, Santa Barbara

Neils, Barbara J. (1974) ............................................ Professor
Nursing
B.S.N., University of Iowa; M.N., Ph.D., University of California, Los Angeles

Newberger, Florence A. (2001) ................................. Associate Professor
Mathematics and Statistics
B.A., B.S., University of California, Santa Cruz, Ph.D., University of Maryland College Park

Ng, Chien Feng (2008) ......................................... Assistant Professor
Economics
A.B., Princeton University, M.A., Ph.D., University of California, Irvine

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Nguyen, Hạnh-Hanh (2006) Assistant Professor Psychology B.A., California State University, Long Beach; M.A., Ph.D., Michigan State University.
Nguyen, Hieu (2007) Assistant Professor Marketing B.A., Harvard Business School; M.S., Texas Christian University; Ph.D., University of Texas at Arlington.
Nguyen, Huong Tran (2005) Assistant Professor Teacher Education B.A., San Diego State University; M.A., Kent State University; Ph.D., University of California, Riverside.
Nguyen, Richard P. (1984) Assistant Professor Civil Engineering and Construction Management B.S., University of Illinois; M.S., Ph.D., Pennsylvania State University.
Nguyen, Thanh N. (1999) Assistant Professor Information Sciences R.E., Long Beach City College; M.S., Georgia Institute of Technology; Ph.D., George Mason University.
Nguyen, Thinh V. (1996) Assistant Professor Computer Engineering and Computer Science B.S., Ph.D., University of California, Irvine; M.S., University of Southern California.
Nguyen, Thuc-Dean (2006) Assistant Professor Sociology B.S., University of California, Santa Cruz; M.S., Ph.D., University of California, Los Angeles.
Noble, Charles (1987) Professor Political Science B.A., Cornell University; M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley.
Nou, Leakhena (2005) Assistant Professor Sociology B.A., California State University, Fullerton; M.A., University of Hawaii at Manoa; M.S.W., Columbia University; M.N.T., University of Hawaii at Manoa.
O'Connor, Daniel (1999) Associate Professor Political Science and Social Studies B.A., University of California, Berkeley; M.A., Ph.D., University of California, Los Angeles.
O'Hara, Linda A. (2001) Assistant Professor Management and Human Resource Management B.S., Willamette University; M.B.A., Harvard University; M.S., Ph.D., Yale University.
O'Lawrence, Henry (2001) Associate Professor Professional Studies B.S., Woodland College; M.A., University of North Carolina at Greensboro; Ph.D., Pennsylvania State University.
Oliver, John (1988) Professor Social Work B.A., California State University, Los Angeles; M.W., University of California, Los Angeles; Ph.D., Indiana University.
Onderdonk, Nathan (2007) Assistant Professor Ecological Sciences B.S., Pacific College; M.S., University of California, Santa Barbara.
Oraj, Anna M. (2003) Assistant Professor Advanced Studies in Education and Counseling B.S., University of California, Davis; M.A., Ohio State University; Columbus; Ph.D., University of California, Los Angeles.
Ostrowski, John W. (1988) Professor Public Policy and Administration B.A., Youngstown State University; M.A., Ph.D., Kent State University.
Ottolia, Dorothy J. (2001) Associate Professor Drama B.A., California State University, Long Beach; M.A., California Polytechnic State University, Pomona.
Pandya, Jessica Z. (2005) Assistant Professor Teacher Education/Literacy Studies B.A., University of Chicago; M.A., Ph.D., University of California, Berkeley.
Pandya, Sephi (2006) Assistant Professor Rangel Studies B.A., University of California, Berkeley; M.A., Ph.D., University of California, Santa Barbara.
Paquez, Cathia (2003) Assistant Professor Art B.A., Wheaton College, MA; M.A., University of California, Santa Barbara.
Paraj, Donald J. (1988) Dean College of the Arts
Perry, Jospeh (1994) Professor Music B.M., M.M., University of Miami; Ph.D., University of Miami.
Pepper, Tony (1994) Associate Professor Music B.A., University of California, Los Angeles.
Peskin, Daniel (2006) Assistant Professor Journalism B.A., Hofstra University; M.A., University of Miami.
Perreira, David E. (1973) Professor College of Business Administration B.A., California State University, Los Angeles; J.D., University of California Berkeley.
Perretz, Kellie M. (1999) Associate Professor Social Work B.A., Pennsylvania State University; M.S.W., Catholic University of America, Washington, D.C.
Patnaik, Jyotsna (2000) Professor Teacher Education M.Ed., Or. Harriett Institute of Advanced Studies in Education, Orissa, India; M.A., India Institute of Management, New Delhi, India; Ph.D., Indian Institute of Technology, New Delhi, India.
Redman, Jeremy (2004) .................................. Assistant Professor
Civil Engineering and Construction Engineering Management
B.S., M.S., Ph.D., University of California, Irvine.

Redmann, Najib (1999) .................................. Associate Professor
Romance, German, Russian Languages and Literatures
B.A., FACJP, Paris, France; M.A., University of Leiden, Quebec, Canada; Ph.D., University of Rennes, France.

Reed, Jennifer (2006) .................................. Assistant Professor
Women's Studies
B.A., Loyola Marymount University, M.A., Ph.D., University of California, Irvine.

Reese, Leslie (2001) .................................. Executive Director
Center for Language Minority Education and Research (CLMER)

Reidy, Finn B. (2004) .................................. Director
Gender and Diversity
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Reis, Raul F. (2006) .................................. Professor
Jesuitism
B.A., University of Federal do Piauí, Brazil; M.S., Kansas State University, Manhattan, Kansas; Ph.D., University of Oregon, Eugene.

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Health Care Administration Program
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Rezaei, Ali (2006) .................................. Associate Professor
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B.S., M.A., Doshisha University, Kyoto, Ph.D., University of Calgary, Canada.

Rhode, Thomas A. (1986) .................................. Professor
Finance
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Rhoads, Thomas J. (1976) .................................. Professor
College of Business Administration
B.S., M.B.A., University of Southern California; J.D., Western State University.

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Communication Studies
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Health Sciences
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College of Liberal Arts

Political Science
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Design
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Roberts, Pamela K. (1983) .................................. Professor
Human Development
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Roberts, Sharon L. (1974) .................................. Professor
Nursing
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Roberts-Corb, Carol (2009) .................................. Director
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Robinson, Douglas W. (1989) .................................. Vice President
Student Services
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Mechanical and Aerospace Engineering
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Occupancy
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Management and Human Resource Management
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Teacher Education
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Rueda, Alfonso (1980) .................................. Professor
Electrical Engineering
B.S., M.S., Massachusetts Institute of Technology; Ph.D., Cornell University.

Runyon, Lowell R. (1968) .................................. Professor
Finance

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Physical Therapy
B.S., M.S., Ph.D., Louisiana State University, Baton Rouge.
Ruweidel, Mark A. (2002) .................................................. Associate Professor
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Sachdeva, Darshan (1973) .................................................. Professor
Physics
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Mathematics and Statistics
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Public, Policy and Administration
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Film and Electronic Arts
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Kinesiology
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Arts
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Shin, Soon-Hi (2007) .................................................. Assistant Professor
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Music
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<th>Name</th>
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<td>Stewart, David</td>
<td>Assistant Professor</td>
<td>California State University, Long Beach</td>
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<td>Stewart, Marian</td>
<td>Assistant Professor</td>
<td>California State University, Long Beach</td>
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<td>Stone, Craig</td>
<td>Associate Professor</td>
<td>California State University, Long Beach</td>
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<td>Stone, Nan R.</td>
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<td>Stall, Ronald J.</td>
<td>Professor</td>
<td>Indiana University</td>
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<td>Strahl, William</td>
<td>Assistant Professor</td>
<td>California State University, Fullerton</td>
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<td>Strauss, Judith F.</td>
<td>Associate Professor</td>
<td>California State University, Fullerton</td>
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<td>Styrbol, Thomas Z.</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Swenson, Stephanie</td>
<td>Softball Assistant Coach</td>
<td>California State University, Fullerton</td>
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<tr>
<td>Swaraj, Leslie K.</td>
<td>Librarian</td>
<td>California State University, Long Beach</td>
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<td>Symeck, Linda S.</td>
<td>Associate Professor</td>
<td>California State University, Fullerton</td>
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<td>Syhne, Andrew</td>
<td>Track and Field Coach</td>
<td>California State University, Fullerton</td>
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<td>Taylor, Linda Tingas</td>
<td>Executive Director</td>
<td>California State University, Fullerton</td>
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<td>Tong, Kevin F.</td>
<td>Professor</td>
<td>Colorado School of Mines</td>
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<td>Troubner, David C.</td>
<td>Assistant Professor</td>
<td>California State University, Fullerton</td>
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<td>Traylor, Robert E.</td>
<td>Professor</td>
<td>University of Nebraska</td>
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<td>Troux, Joan L.</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Trinkle, Marie C.</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Trillin, David S.</td>
<td>Assistant Professor</td>
<td>California State University, Fullerton</td>
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<td>Trong, Thomas G.</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Tschida, Tracy E.</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Turner, Christopher</td>
<td>Professor</td>
<td>California State University, Fullerton</td>
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<td>Tuttle, Robert</td>
<td>Professor</td>
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Family and Consumer Sciences
B.A., St. Cloud State University; M.S., Ph.D., Iowa State University, Ames.

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Annexes Studies
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Biological Sciences
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Music
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Philology
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Criminal Justice
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Computer Engineering and Computer Science
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Psychology
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Acknowledgments

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Cover Concept and Design:

Victoria Macey

Photography Credits:

David Nelson / University Publications

Victoria Sanchez / University Publications